

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P271217

Luminaire Tested: **XNV-AF-01-LED-U-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24283)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-AFL-7027-800-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3563.8 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

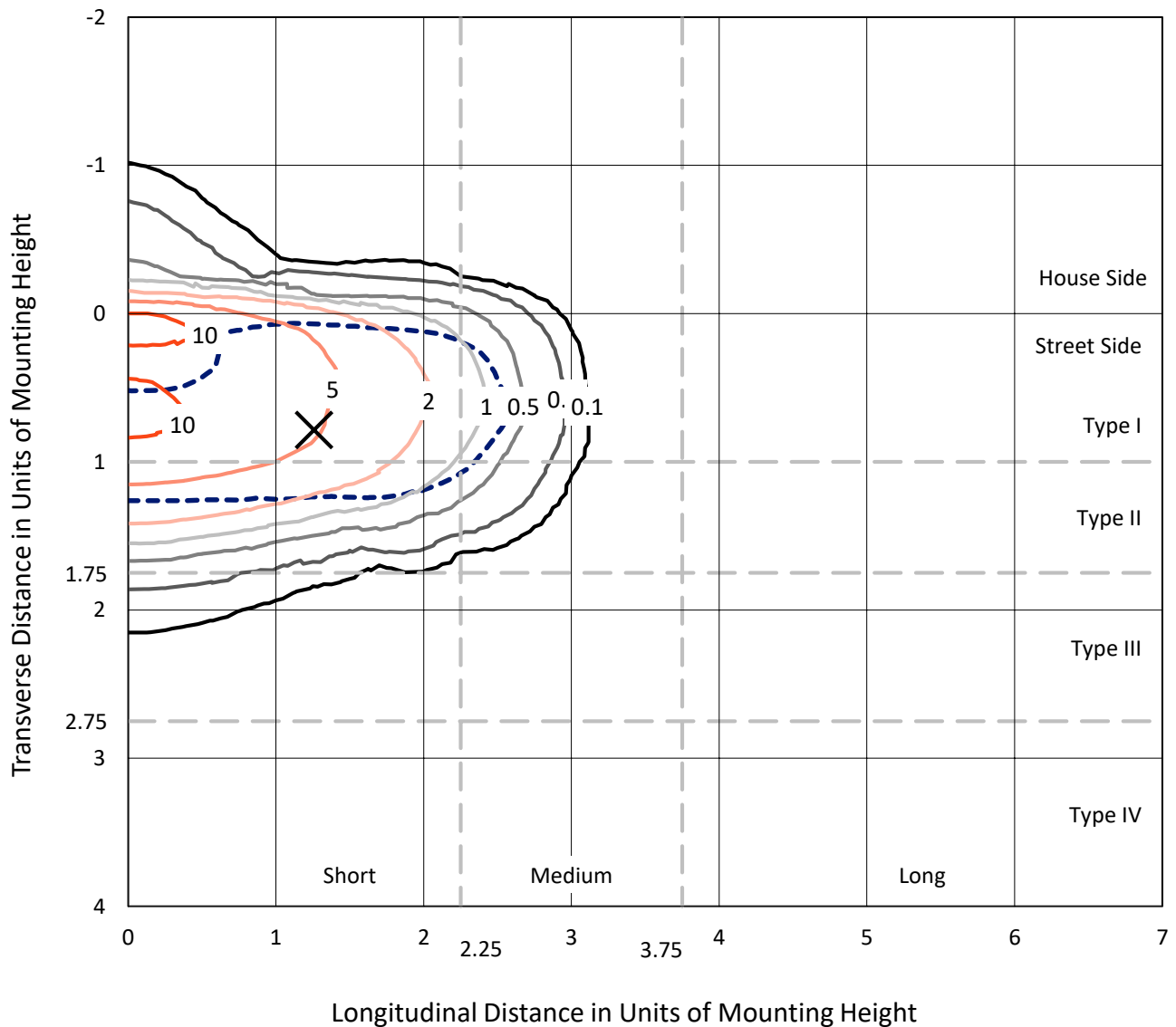


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

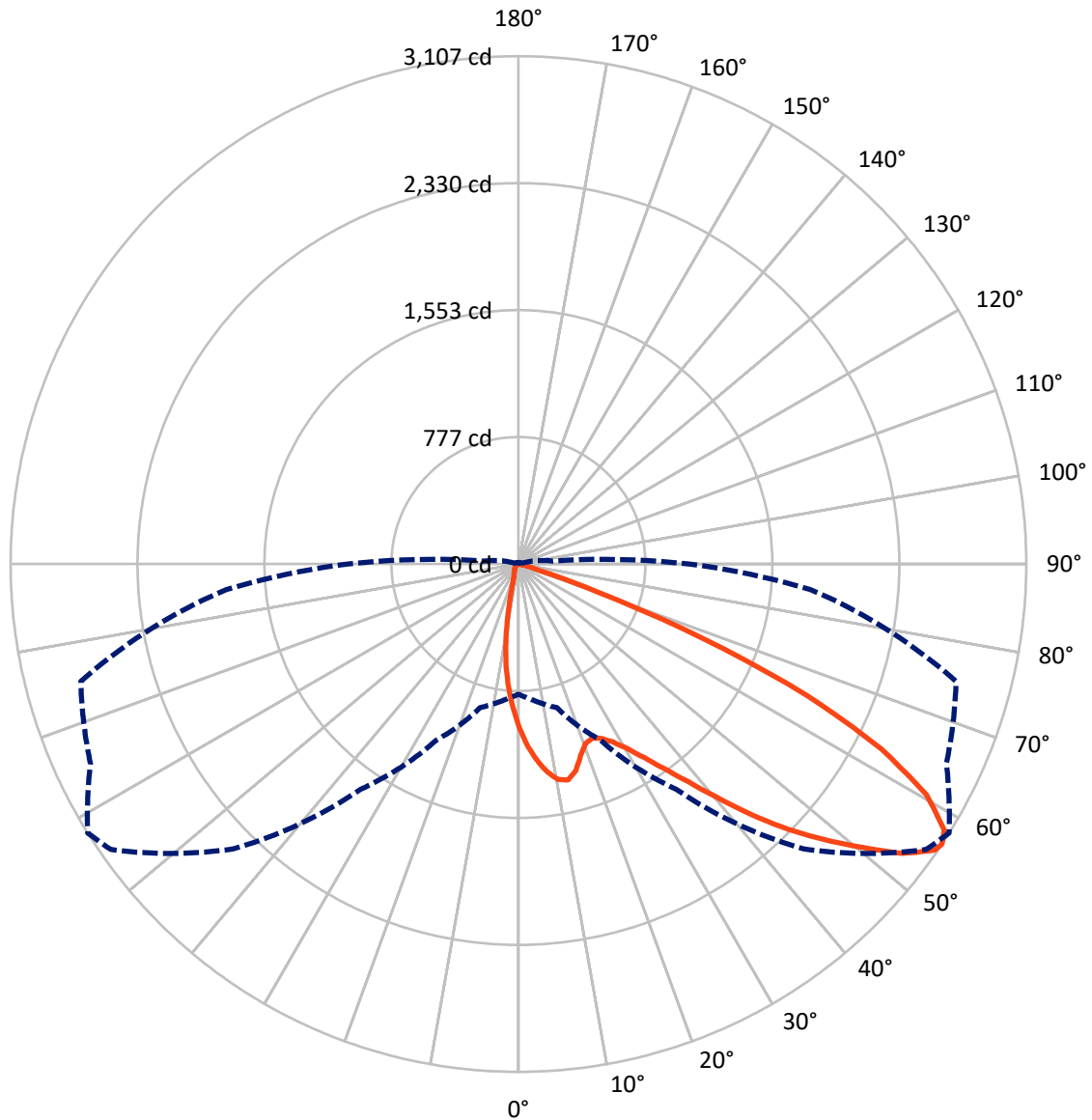


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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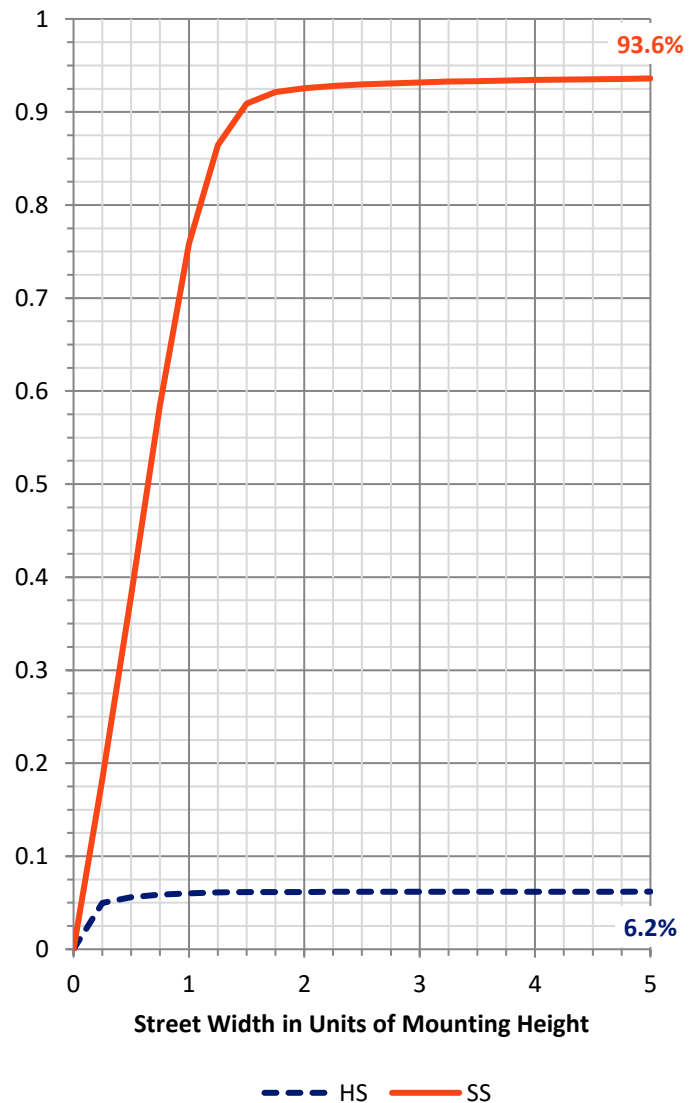
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	222.4	0.0	222.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3341.3	0.0	3341.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	3563.8	0.0	3563.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	2.4
10°-20°	200.3	5.6
20°-30°	337.0	9.5
30°-40°	577.1	16.2
40°-50°	870.8	24.4
50°-60°	905.2	25.4
60°-70°	508.2	14.3
70°-80°	69.6	2.0
80°-90°	9.4	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3563.8	100.0
0°-180°	3563.8	100.0

Coefficient of Utilization



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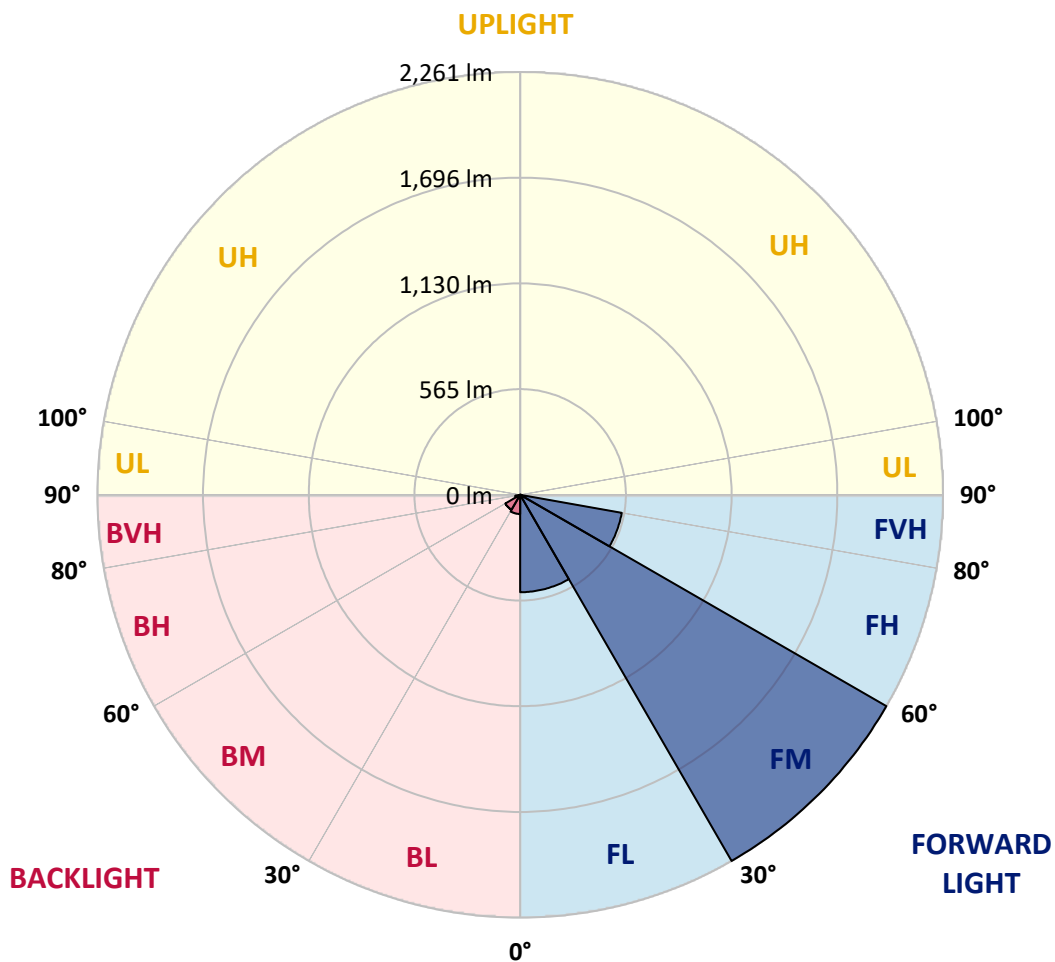
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.7	14.6			
FM (30°-60°)	2261.0	63.4			
FH (60°-80°)	551.4	15.5			G0/660
FVH (80°-90°)	8.1	0.2			G0/10
BL (0°-30°)	102.6	2.9	B0/110		
BM (30°-60°)	92.1	2.6	B0/220		
BH (60°-80°)	26.4	0.7	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9
2.5°	1214.0	1206.7	1199.1	1185.0	1171.8	1151.7	1124.0	1117.2	1095.5	1059.6	1026.1
5°	1318.7	1317.4	1312.2	1300.7	1286.6	1262.2	1230.9	1209.9	1176.2	1119.6	1055.1
7.5°	1256.6	1268.1	1286.9	1313.5	1331.5	1329.0	1305.1	1286.9	1253.5	1176.2	1083.7
10°	1059.3	1061.4	1087.3	1143.4	1231.9	1314.6	1345.9	1341.0	1310.3	1225.6	1108.8
12.5°	989.8	991.1	997.1	1014.9	1072.7	1187.9	1329.6	1355.2	1352.7	1273.0	1135.5
15°	995.1	996.0	997.6	1003.2	1019.5	1077.5	1246.8	1312.0	1379.8	1317.9	1161.6
17.5°	1038.1	1037.5	1032.4	1026.9	1032.2	1051.1	1162.6	1231.1	1374.1	1355.7	1183.0
20°	1121.9	1124.6	1107.3	1082.9	1070.5	1071.3	1121.1	1172.4	1342.1	1385.0	1199.1
22.5°	1239.7	1241.5	1212.9	1171.1	1134.4	1115.9	1129.7	1156.8	1305.1	1412.2	1212.2
25°	1380.2	1380.2	1340.2	1280.7	1223.9	1183.2	1171.3	1181.7	1291.0	1442.9	1225.2
27.5°	1531.9	1537.3	1485.1	1407.0	1332.0	1272.8	1235.2	1233.4	1301.9	1481.6	1239.8
30°	1696.9	1701.7	1639.8	1544.4	1455.4	1379.5	1321.9	1309.5	1343.4	1533.4	1261.3
32.5°	1861.1	1865.2	1796.7	1699.4	1595.7	1506.5	1430.7	1410.9	1418.2	1609.4	1292.9
35°	2070.0	2070.8	1984.0	1868.3	1757.5	1652.8	1556.9	1537.3	1529.2	1705.1	1338.3
37.5°	2236.2	2229.6	2174.6	2065.1	1938.1	1828.8	1715.9	1690.4	1670.8	1839.6	1408.7
40°	2275.2	2275.2	2267.1	2234.2	2133.4	2028.1	1918.8	1880.7	1837.5	1998.2	1503.4
42.5°	2173.3	2179.7	2233.6	2305.1	2305.9	2238.5	2131.7	2099.6	2023.4	2178.7	1606.7
45°	1945.1	1947.0	2076.3	2269.3	2400.4	2438.9	2360.0	2315.7	2210.2	2366.3	1701.3
47.5°	1863.1	1869.1	1923.9	2160.0	2407.4	2601.2	2579.3	2518.3	2383.2	2537.6	1789.7
50°	1736.9	1744.1	1811.4	1999.0	2343.8	2705.3	2788.9	2723.7	2540.5	2680.4	1833.4
52.5°	1435.0	1446.5	1541.4	1786.1	2184.7	2709.6	2980.8	2941.7	2701.8	2756.8	1828.2
55°	987.5	996.0	1106.6	1394.3	1863.9	2576.8	3063.5	3090.3	2845.7	2773.8	1803.2
56°	796.6	828.1	909.3	1187.9	1681.2	2463.6	3044.4	3106.7	2888.4	2771.2	1792.4
57.5°	526.6	532.6	621.0	860.8	1350.0	2218.2	2958.5	3071.8	2943.2	2757.3	1784.5
60°	247.8	250.4	282.2	397.2	730.6	1616.4	2679.3	2867.4	2963.4	2728.2	1784.2
62.5°	161.5	162.1	165.8	189.5	298.9	880.3	2221.1	2491.9	2796.8	2725.0	1779.1
65°	132.9	134.3	129.6	132.7	156.3	332.0	1566.6	1942.8	2405.5	2648.3	1720.9
67.5°	117.1	117.5	111.2	107.6	114.4	145.7	789.3	1225.5	1799.1	2250.3	1417.3
70°	106.9	106.5	99.5	91.4	91.6	96.7	257.3	509.0	995.4	1336.0	813.8
72.5°	95.0	95.4	91.4	79.9	76.1	68.5	96.7	137.4	338.8	429.0	214.5
75°	83.3	82.1	78.1	70.6	63.6	46.0	48.7	58.5	88.4	87.6	46.3
77.5°	63.2	62.1	63.9	60.4	49.8	32.1	26.6	30.5	40.0	37.3	18.8
80°	48.1	47.6	43.5	51.7	45.5	24.3	18.2	18.8	21.7	19.9	9.3
82.5°	34.9	34.6	32.9	31.8	28.8	17.6	13.8	14.7	16.3	13.8	6.7
85°	13.4	13.4	25.8	21.7	19.9	11.9	9.8	10.6	12.4	10.1	4.6
87.5°	2.2	2.2	17.3	14.5	9.0	6.0	6.3	6.7	7.4	6.0	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9
2.5°	1006.3	988.0	948.2	909.5	875.8	838.7	820.1	798.4	790.1	773.8	775.4
5°	1016.6	978.6	898.3	813.8	736.3	657.5	601.4	548.7	519.3	490.3	490.3
7.5°	1027.2	969.0	845.0	709.9	579.3	444.3	348.5	271.8	229.2	200.6	199.9
10°	1034.6	956.9	784.4	589.5	397.1	229.0	138.1	108.8	98.2	93.6	93.2
12.5°	1044.1	944.6	715.4	447.5	220.5	108.8	86.1	81.6	79.7	78.6	78.6
15°	1052.3	927.2	631.6	301.0	115.8	81.6	74.2	72.7	72.4	72.0	72.4
17.5°	1054.2	902.4	531.3	176.2	84.0	71.2	68.0	66.7	66.7	66.4	66.4
20°	1049.8	869.7	420.3	108.8	72.7	65.5	62.1	60.4	60.0	60.0	60.0
22.5°	1040.9	828.1	310.8	82.4	66.0	60.4	55.8	54.1	54.1	54.3	54.6
25°	1029.6	779.0	213.4	71.0	61.2	54.9	50.2	48.7	49.1	49.8	50.0
27.5°	1015.5	720.3	139.7	61.4	54.6	49.4	45.5	44.3	45.5	46.5	47.0
30°	1001.4	655.9	94.6	53.3	47.3	43.5	41.1	40.9	42.4	44.8	45.2
32.5°	992.2	589.7	71.5	47.9	41.6	38.4	37.3	37.8	40.2	42.9	43.5
35°	991.3	525.2	60.9	43.5	37.8	34.9	34.2	35.9	38.5	40.9	41.3
37.5°	1004.1	465.0	55.2	40.2	34.9	31.8	31.0	34.0	36.4	38.5	39.2
40°	1029.9	410.9	51.5	37.3	32.3	28.8	28.2	30.7	33.1	35.7	36.4
42.5°	1062.2	360.3	47.0	34.2	29.6	25.5	25.1	26.9	29.4	32.9	33.4
45°	1090.4	313.1	42.4	31.0	26.6	22.0	21.7	24.0	25.8	29.0	29.6
47.5°	1114.0	274.1	38.1	27.5	22.8	19.6	19.4	20.4	21.5	24.4	25.1
50°	1101.4	240.8	33.7	22.5	18.4	16.9	16.6	16.6	18.0	20.9	21.5
52.5°	1070.7	220.3	29.6	18.8	15.2	14.5	13.7	13.8	15.2	16.6	16.9
55°	1045.9	210.5	26.1	16.6	12.8	11.9	11.1	10.9	11.1	10.6	10.1
56°	1040.0	209.3	25.3	16.0	12.2	11.1	10.1	9.5	9.3	8.2	7.8
57.5°	1037.4	209.3	24.0	14.9	11.4	10.1	8.8	7.6	6.5	5.7	5.7
60°	1035.0	210.7	22.3	13.0	9.8	8.2	6.3	4.6	3.9	3.9	3.9
62.5°	1030.4	210.2	20.4	10.9	8.4	6.3	3.9	3.0	2.8	3.0	3.2
65°	978.6	195.2	18.0	8.8	6.5	4.3	2.2	2.2	2.4	3.0	3.2
67.5°	788.5	148.0	14.7	6.7	4.6	3.2	1.8	1.8	2.4	3.0	3.2
70°	433.2	78.1	12.4	4.9	3.6	2.8	1.8	1.6	2.4	3.0	3.2
72.5°	105.8	32.6	11.4	3.9	3.2	2.4	1.6	1.6	2.4	3.0	3.2
75°	26.1	24.4	9.3	3.0	2.8	2.2	1.6	1.6	2.4	3.0	3.2
77.5°	12.2	32.3	6.3	2.8	2.4	1.8	1.6	1.6	2.4	3.0	3.0
80°	7.4	24.4	3.9	2.4	2.2	1.8	1.6	1.6	2.4	3.0	3.2
82.5°	4.3	7.0	2.8	2.4	2.2	1.6	1.6	1.6	2.4	3.0	3.2
85°	3.9	3.6	2.8	2.4	2.2	1.8	1.6	1.6	2.8	3.2	3.2
87.5°	3.0	2.8	2.4	2.2	2.2	1.8	1.6	1.6	2.4	3.0	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)