

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: P198710

Luminaire Tested: **XNV-AF-01-LED-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
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-SL3-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5251.8 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

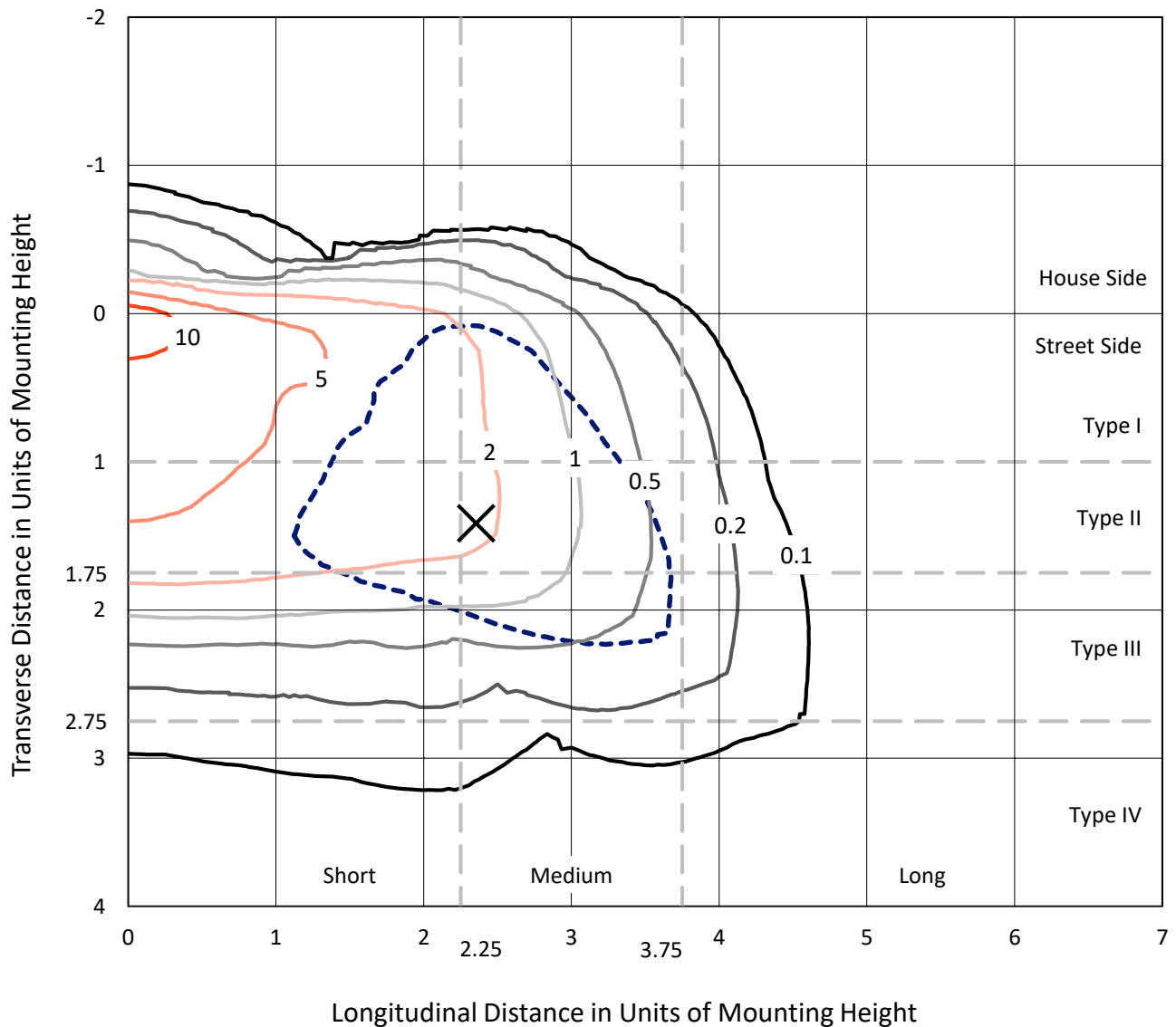
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

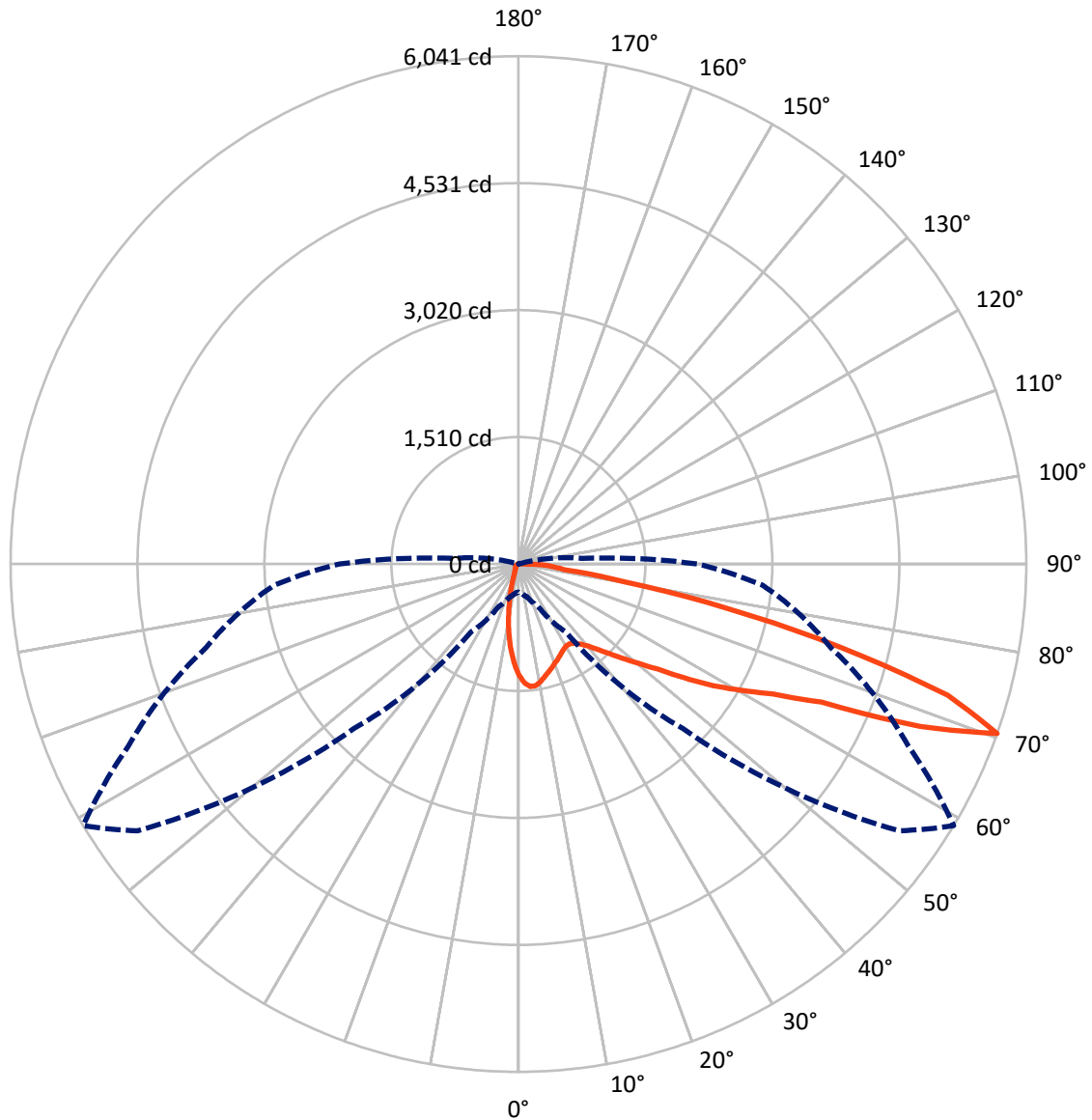
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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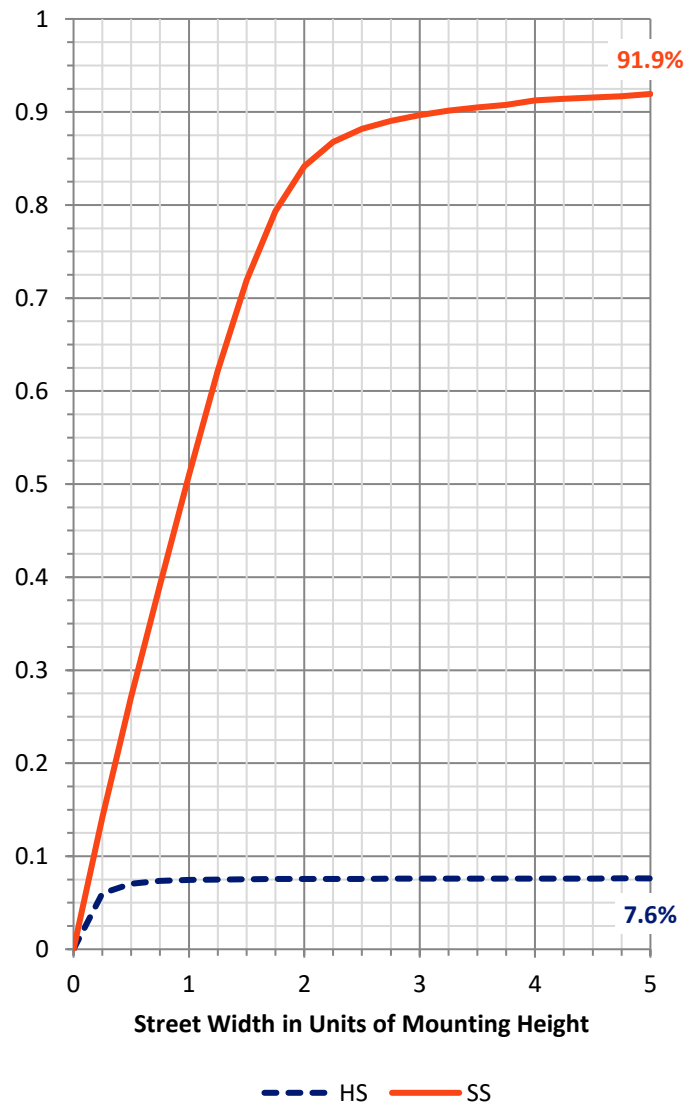
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	403.7	0.0	403.7
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	4848.1	0.0	4848.1
	% Fixture	92.3	0.0	92.3
Total	Lumens	5251.8	0.0	5251.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	2.1
10°-20°	229.0	4.4
20°-30°	310.0	5.9
30°-40°	447.5	8.5
40°-50°	743.1	14.1
50°-60°	1136.7	21.6
60°-70°	1413.8	26.9
70°-80°	781.5	14.9
80°-90°	81.0	1.5
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°	5251.8	100.0
0°-180°	5251.8	100.0

Coefficient of Utilization



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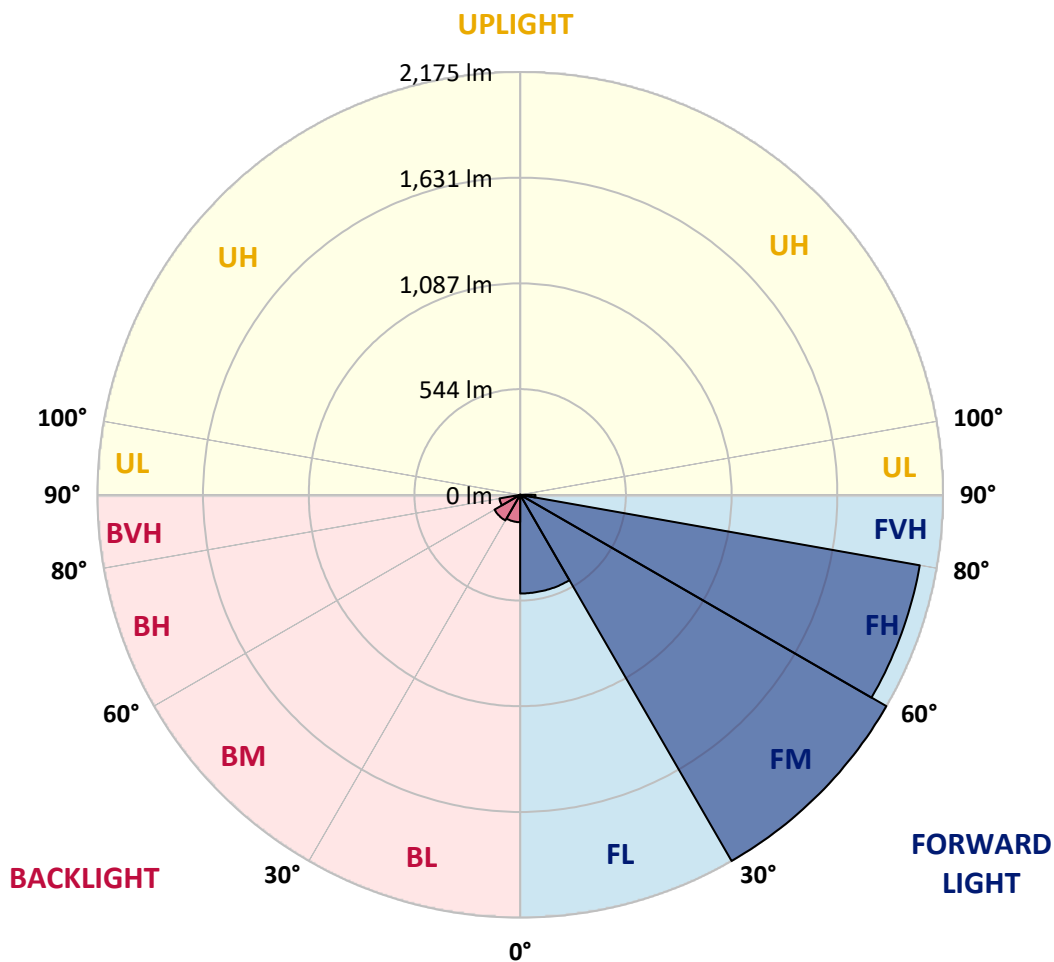
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	507.6	9.7			
FM	(30°-60°)	2174.8	41.4			
FH	(60°-80°)	2087.0	39.7			G2/5000
FVH	(80°-90°)	78.7	1.5			G1/100
BL	(0°-30°)	140.7	2.7	B1/500		
BM	(30°-60°)	152.4	2.9	B0/220		
BH	(60°-80°)	108.3	2.1	B0/110		G0/110
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0
2.5°	1501.2	1498.7	1488.8	1486.9	1475.8	1453.6	1427.8	1417.5	1396.5	1363.3	1326.5
5°	1526.1	1527.3	1528.1	1523.7	1522.2	1503.9	1475.4	1463.1	1435.0	1380.3	1313.0
7.5°	1432.5	1435.7	1445.6	1450.0	1469.1	1476.2	1470.2	1462.3	1440.1	1375.6	1280.8
10°	1333.9	1339.9	1350.6	1357.8	1381.1	1400.1	1424.3	1426.3	1421.5	1359.7	1244.8
12.5°	1249.1	1254.8	1266.6	1280.8	1304.7	1329.2	1365.2	1377.9	1393.8	1349.4	1219.1
15°	1176.3	1177.8	1189.4	1207.2	1238.5	1272.1	1314.9	1333.5	1364.4	1345.4	1199.2
17.5°	1112.5	1112.9	1120.4	1136.6	1174.7	1219.1	1269.0	1293.5	1332.8	1339.9	1181.8
20°	1070.5	1070.1	1070.5	1079.2	1112.9	1165.6	1226.2	1251.9	1302.2	1333.1	1164.0
22.5°	1056.2	1054.3	1045.1	1042.0	1063.4	1109.7	1182.2	1215.9	1274.9	1331.2	1150.9
25°	1073.7	1072.5	1053.0	1034.8	1036.8	1065.7	1137.4	1178.6	1253.5	1338.3	1147.8
27.5°	1130.0	1127.5	1097.8	1062.1	1039.6	1044.7	1104.2	1147.3	1236.4	1355.7	1152.0
30°	1203.6	1204.0	1172.3	1129.1	1076.0	1046.7	1086.4	1127.1	1225.0	1381.9	1161.6
32.5°	1285.6	1285.2	1262.6	1212.7	1145.0	1083.2	1094.3	1128.7	1226.6	1420.3	1179.9
35°	1370.3	1366.0	1358.5	1314.5	1235.3	1146.9	1130.3	1155.6	1243.2	1471.0	1210.8
37.5°	1468.2	1466.7	1474.2	1427.8	1347.0	1240.8	1193.7	1210.8	1285.2	1545.9	1260.7
40°	1623.9	1615.2	1618.8	1555.8	1473.0	1367.2	1282.5	1286.8	1352.1	1644.9	1339.5
42.5°	1920.7	1885.4	1819.2	1701.2	1611.7	1507.4	1398.5	1391.0	1446.9	1765.0	1443.3
45°	2275.2	2234.8	2068.1	1861.7	1750.4	1658.0	1541.9	1521.7	1563.4	1908.0	1577.2
47.5°	2571.2	2527.6	2306.5	2029.2	1891.3	1813.3	1700.8	1677.0	1702.8	2074.0	1738.1
50°	2672.3	2648.1	2454.0	2168.7	2033.6	1987.6	1900.1	1860.4	1866.8	2253.0	1925.8
52.5°	2625.9	2617.5	2487.6	2264.2	2165.2	2180.2	2118.4	2076.8	2069.6	2448.8	2133.5
55°	2528.0	2524.0	2460.7	2317.3	2281.2	2356.5	2424.6	2388.6	2321.2	2656.8	2305.0
57.5°	2388.2	2403.2	2448.8	2419.5	2423.9	2542.6	2709.1	2727.7	2627.0	2822.4	2432.2
60°	2014.6	2055.0	2263.8	2529.2	2732.5	2852.5	3013.7	3048.6	2886.2	2935.7	2579.2
62.5°	1489.2	1547.1	1844.6	2332.3	2902.4	3441.6	3419.0	3403.6	3133.4	3087.5	2846.6
65°	874.7	942.5	1194.1	1822.4	2646.1	3820.4	4175.8	3961.8	3510.2	3402.8	3272.4
67.5°	435.8	436.2	549.9	961.9	1955.6	3556.1	5280.3	5156.7	4311.2	3867.5	3440.4
70°	335.1	344.3	406.8	559.0	988.9	2769.7	5533.4	6040.9	5116.3	3846.9	2919.1
72.5°	284.1	290.0	362.1	486.5	739.3	1520.5	4790.3	5339.7	4882.1	3250.2	2151.7
75°	204.4	209.2	320.5	441.3	680.7	754.3	3285.9	3960.3	3663.1	2286.4	1184.2
77.5°	50.7	50.3	111.7	358.1	609.0	628.3	1885.4	2539.5	2101.8	936.2	304.2
80°	22.6	21.8	25.4	75.3	566.5	593.1	829.2	1282.5	806.2	151.7	93.1
82.5°	15.9	15.0	15.9	27.7	189.3	550.2	501.1	555.9	295.1	51.9	39.6
85°	5.1	4.7	8.7	23.4	53.1	317.3	488.9	415.2	219.5	22.2	26.5
87.5°	0.8	0.8	3.2	12.7	15.4	105.8	286.8	287.7	98.6	13.1	11.9
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°	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0	1328.0
2.5°	1307.8	1284.4	1251.6	1218.6	1189.0	1158.4	1133.8	1122.4	1117.3	1110.1	1094.7
5°	1277.7	1235.3	1163.2	1092.3	1026.1	962.7	908.5	877.6	844.2	842.7	826.4
7.5°	1229.4	1169.1	1055.4	945.3	844.2	747.6	664.4	610.5	573.7	550.7	534.8
10°	1175.5	1098.2	947.7	792.8	655.3	526.1	419.2	349.4	307.1	285.6	273.3
12.5°	1132.7	1035.6	841.5	646.6	474.2	326.0	226.6	175.9	153.3	144.6	140.7
15°	1095.9	978.1	742.0	515.9	316.5	187.4	131.1	114.5	110.9	110.9	110.6
17.5°	1058.5	922.7	645.4	387.5	199.3	122.9	103.4	101.1	101.4	102.6	102.6
20°	1023.4	870.0	552.3	276.1	130.7	98.2	93.9	93.1	94.3	95.9	95.4
22.5°	994.8	823.7	465.1	189.8	100.7	89.1	86.3	85.2	85.9	87.2	86.7
25°	974.6	784.1	385.0	132.4	87.6	81.2	78.1	76.4	75.7	76.4	76.1
27.5°	962.3	750.7	309.9	99.4	78.5	73.2	69.4	66.2	64.1	64.1	63.4
30°	954.4	719.4	242.8	82.4	70.9	65.4	59.8	55.4	52.3	51.5	51.1
32.5°	954.0	692.5	181.5	72.9	63.8	57.5	50.7	45.2	41.6	40.8	40.4
35°	963.9	670.7	133.5	65.8	57.5	49.9	42.4	36.4	33.2	33.2	32.8
37.5°	989.7	658.1	101.1	60.3	52.3	43.6	35.7	30.1	27.3	28.1	28.1
40°	1037.6	655.7	82.4	55.9	48.0	38.1	28.9	24.6	23.4	24.6	24.6
42.5°	1110.9	668.4	73.2	52.7	44.0	32.5	24.1	21.0	20.6	21.8	21.8
45°	1206.4	693.4	68.1	49.9	39.6	26.9	20.3	18.2	17.8	19.4	19.4
47.5°	1322.1	727.0	63.4	46.7	35.3	22.2	17.1	15.4	15.4	17.1	17.4
50°	1459.1	772.5	58.6	43.6	31.7	18.6	14.2	13.1	13.5	15.0	15.4
52.5°	1616.8	828.4	54.3	40.8	27.7	15.0	11.9	11.0	11.5	13.1	13.5
55°	1752.7	877.2	49.1	38.1	22.6	12.3	9.9	9.5	9.9	11.9	11.9
57.5°	1871.2	923.9	44.4	33.7	17.8	9.9	7.9	7.9	8.7	10.7	11.0
60°	2028.4	997.6	40.4	28.5	13.5	7.6	6.3	6.8	7.9	9.5	9.9
62.5°	2307.0	1122.8	35.3	23.7	9.9	5.9	5.1	5.5	7.2	9.1	9.5
65°	2655.6	1241.2	29.4	19.8	7.6	4.4	4.0	5.1	7.2	9.1	9.5
67.5°	2620.0	1079.6	23.0	15.9	5.5	3.6	3.2	4.7	6.8	9.1	9.5
70°	2124.7	756.7	17.1	10.7	4.4	3.2	3.2	4.7	6.8	8.7	9.1
72.5°	1473.8	421.1	13.1	7.2	4.0	3.2	2.8	4.4	6.3	8.7	9.1
75°	701.2	129.2	10.3	5.1	3.6	2.8	2.4	4.4	6.3	8.7	9.1
77.5°	134.7	32.8	8.3	4.4	3.2	2.8	2.4	4.0	6.3	8.3	8.7
80°	45.5	14.6	6.8	4.0	3.2	2.8	2.4	4.0	5.9	7.9	8.3
82.5°	25.0	8.3	5.9	3.6	3.2	2.4	1.9	3.6	5.5	7.9	8.3
85°	19.4	5.9	4.7	3.6	3.2	2.4	1.9	3.6	5.5	7.6	7.9
87.5°	9.9	4.4	4.0	3.6	3.2	2.4	1.9	3.2	5.1	7.2	7.9
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)