

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: P198708

Luminaire Tested: **XNV-AF-01-LED-U-SL3-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198708
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-SL3-800-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 4243.2 lumens
Efficiency: N/A
Efficacy: 96.4 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 - G1

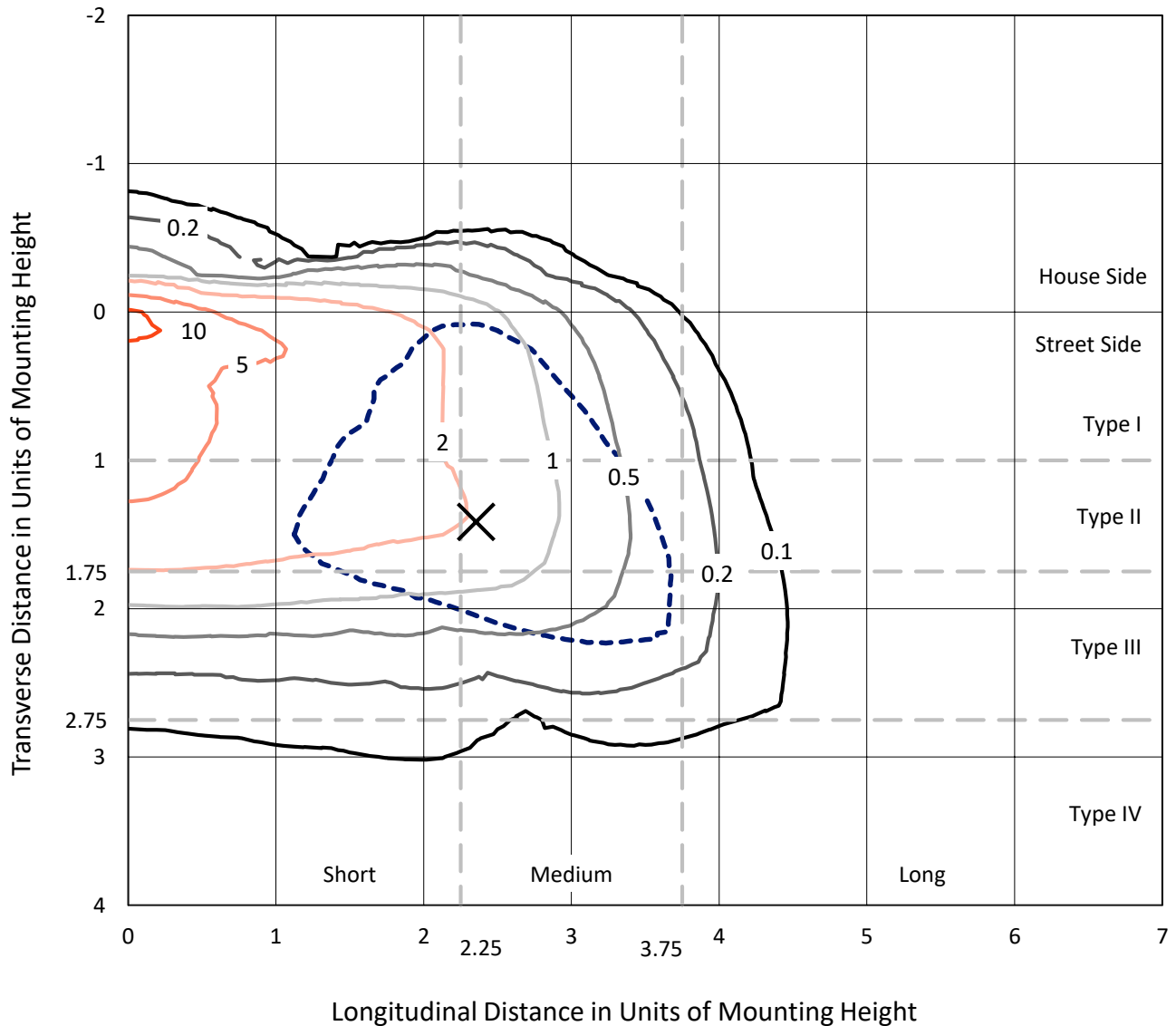
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

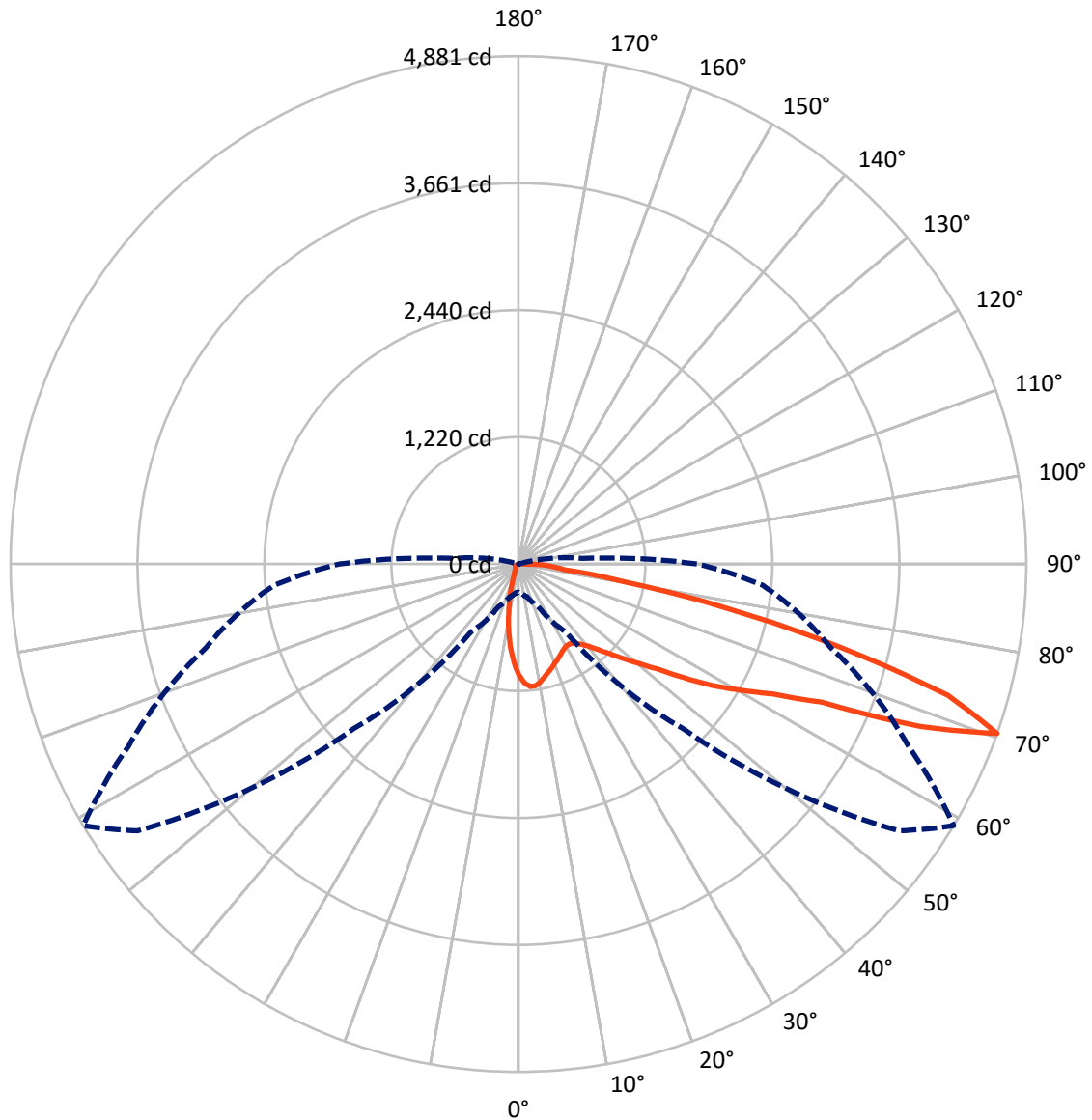


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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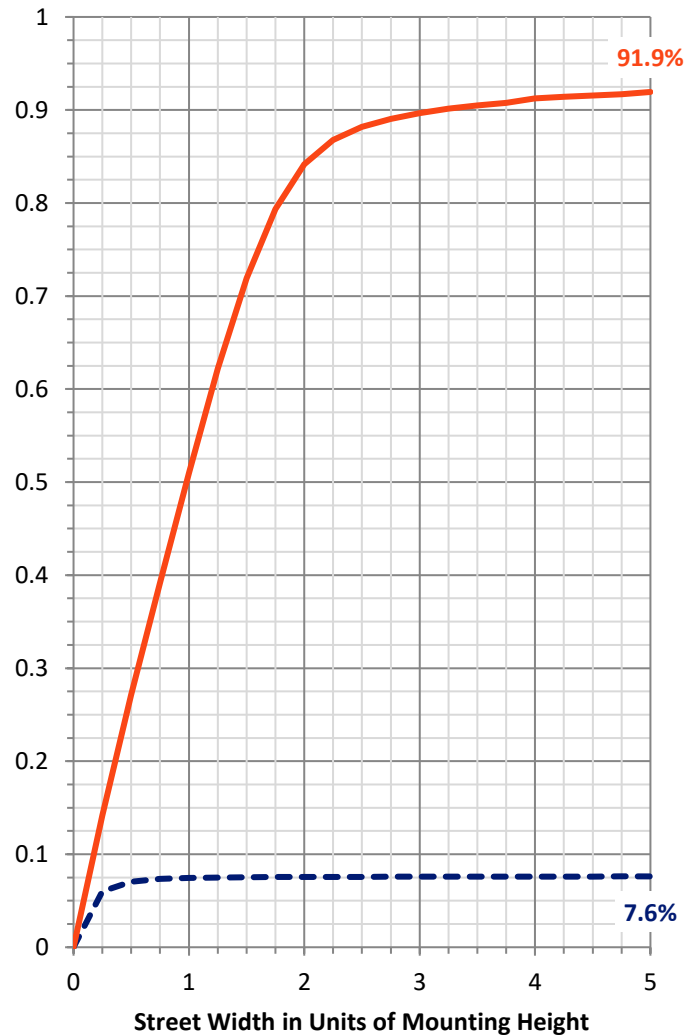
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	326.2	0.0	326.2
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	3917.0	0.0	3917.0
	% Fixture	92.3	0.0	92.3
Total	Lumens	4243.2	0.0	4243.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	2.1
10°-20°	185.1	4.4
20°-30°	250.5	5.9
30°-40°	361.5	8.5
40°-50°	600.4	14.1
50°-60°	918.4	21.6
60°-70°	1142.2	26.9
70°-80°	631.4	14.9
80°-90°	65.5	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°	4243.2	100.0
0°-180°	4243.2	100.0



--- HS — SS

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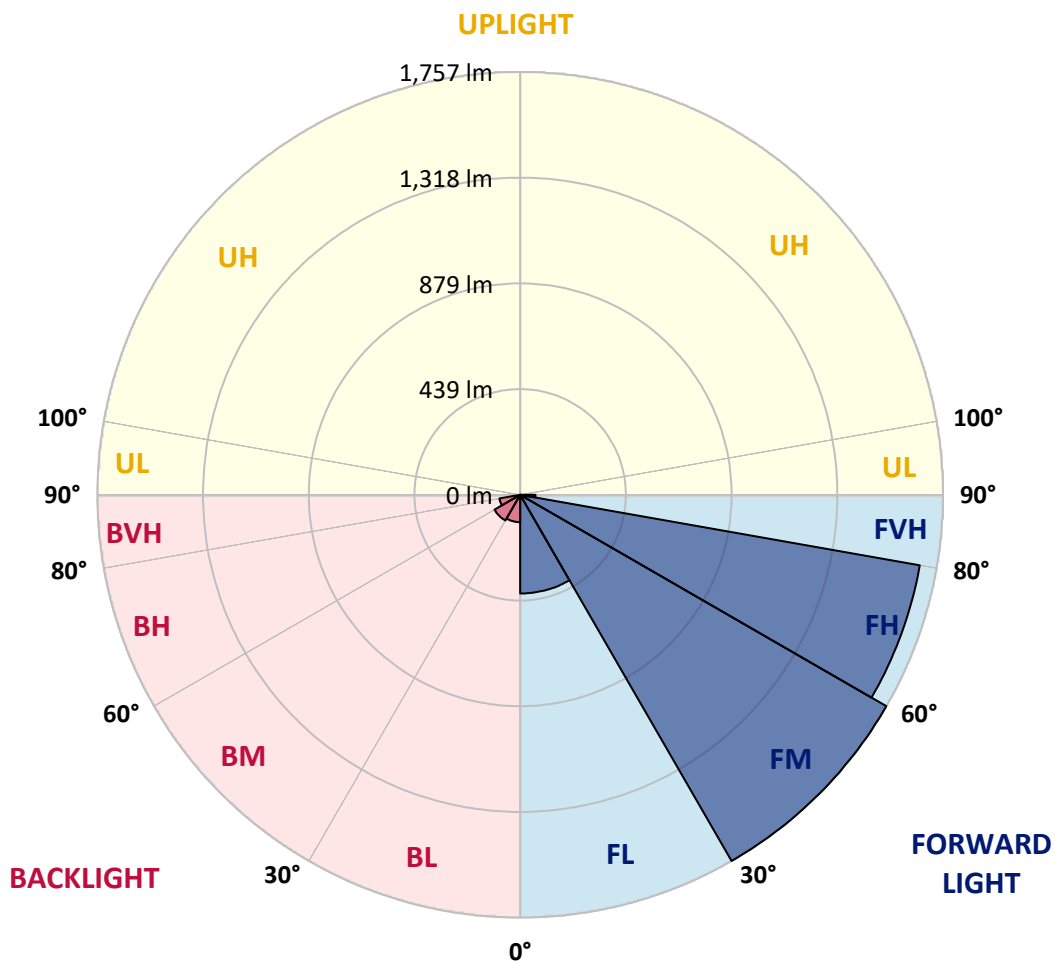
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	410.1	9.7			
FM	(30°-60°)	1757.2	41.4			
FH	(60°-80°)	1686.2	39.7			G1/1800
FVH	(80°-90°)	63.6	1.5			G1/100
BL	(0°-30°)	113.7	2.7	B1/500		
BM	(30°-60°)	123.1	2.9	B0/220		
BH	(60°-80°)	87.5	2.1	B0/110		G0/110
BVH	(80°-90°)	1.9	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0
2.5°	1212.8	1210.9	1202.9	1201.4	1192.4	1174.4	1153.6	1145.3	1128.3	1101.4	1071.6
5°	1233.0	1234.0	1234.6	1231.1	1229.8	1215.1	1192.0	1182.1	1159.4	1115.2	1060.8
7.5°	1157.5	1160.0	1168.0	1171.6	1186.9	1192.7	1187.9	1181.5	1163.5	1111.3	1034.8
10°	1077.8	1082.6	1091.2	1096.9	1115.8	1131.2	1150.7	1152.4	1148.5	1098.5	1005.8
12.5°	1009.2	1013.7	1023.4	1034.8	1054.0	1073.9	1103.0	1113.3	1126.1	1090.3	984.9
15°	950.3	951.7	961.0	975.3	1000.7	1027.9	1062.4	1077.5	1102.4	1087.0	968.9
17.5°	898.9	899.2	905.2	918.3	949.1	984.9	1025.3	1045.1	1076.8	1082.6	954.8
20°	864.9	864.6	864.9	872.0	899.2	941.7	990.7	1011.5	1052.1	1077.1	940.4
22.5°	853.3	851.8	844.4	841.9	859.2	896.6	955.1	982.3	1030.0	1075.5	929.9
25°	867.5	866.5	850.8	836.1	837.7	861.0	919.0	952.3	1012.8	1081.3	927.3
27.5°	912.9	910.9	887.0	858.2	839.9	844.0	892.1	927.0	999.0	1095.4	930.8
30°	972.4	972.7	947.2	912.3	869.4	845.7	877.7	910.6	989.7	1116.4	938.6
32.5°	1038.7	1038.4	1020.1	979.8	925.1	875.1	884.1	912.0	991.0	1147.5	953.3
35°	1107.2	1103.7	1097.6	1062.0	998.1	926.7	913.2	933.7	1004.4	1188.5	978.2
37.5°	1186.3	1185.0	1191.0	1153.6	1088.3	1002.5	964.4	978.2	1038.4	1249.0	1018.6
40°	1312.0	1305.0	1307.9	1257.0	1190.1	1104.7	1036.1	1039.6	1092.5	1329.0	1082.3
42.5°	1551.8	1523.3	1469.9	1374.4	1302.1	1217.9	1130.0	1123.8	1169.0	1426.0	1166.1
45°	1838.3	1805.6	1670.9	1504.1	1414.1	1339.6	1245.9	1229.5	1263.0	1541.6	1274.3
47.5°	2077.4	2042.2	1863.6	1639.5	1528.1	1465.1	1374.1	1355.0	1375.8	1675.7	1404.2
50°	2159.0	2139.5	1982.7	1752.2	1643.1	1605.9	1535.1	1503.1	1508.2	1820.3	1556.0
52.5°	2121.6	2114.8	2009.9	1829.3	1749.3	1761.5	1711.5	1677.9	1672.2	1978.5	1723.7
55°	2042.5	2039.4	1988.1	1872.2	1843.1	1903.9	1959.0	1929.8	1875.4	2146.6	1862.3
57.5°	1929.5	1941.7	1978.5	1954.9	1958.3	2054.4	2188.8	2203.8	2122.5	2280.4	1965.1
60°	1627.7	1660.4	1829.0	2043.4	2207.7	2304.7	2434.9	2463.2	2331.9	2371.9	2083.9
62.5°	1203.2	1249.9	1490.3	1884.4	2345.0	2780.7	2762.4	2749.9	2531.6	2494.5	2299.9
65°	706.8	761.5	964.7	1472.4	2137.9	3086.7	3373.8	3200.9	2836.0	2749.3	2644.0
67.5°	352.1	352.4	444.3	777.1	1579.9	2873.2	4266.2	4166.4	3483.2	3124.7	2779.7
70°	270.8	278.1	328.8	451.6	798.9	2237.8	4470.7	4880.8	4133.6	3108.1	2358.4
72.5°	229.6	234.4	292.6	393.1	597.3	1228.6	3870.2	4314.2	3944.5	2626.0	1738.4
75°	165.2	169.0	258.9	356.6	549.9	609.5	2654.9	3199.7	2959.6	1847.2	956.8
77.5°	41.0	40.6	90.2	289.4	491.9	507.7	1523.3	2051.8	1698.1	756.4	245.8
80°	18.2	17.6	20.5	60.9	457.8	479.2	669.9	1036.1	651.4	122.5	75.2
82.5°	12.8	12.2	12.8	22.4	153.0	444.6	404.9	449.1	238.4	41.9	32.0
85°	4.2	3.9	7.1	18.9	42.9	256.4	395.0	335.4	177.4	17.9	21.5
87.5°	0.6	0.6	2.6	10.2	12.5	85.4	231.7	232.4	79.7	10.5	9.6
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°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0
2.5°	1056.6	1037.8	1011.2	984.6	960.6	936.0	916.2	906.8	902.7	896.9	884.4
5°	1032.3	998.1	939.8	882.5	829.0	777.9	734.0	709.0	682.1	680.9	667.7
7.5°	993.3	944.6	852.7	763.7	682.1	604.1	536.8	493.3	463.5	444.9	432.1
10°	949.7	887.3	765.7	640.5	529.5	425.0	338.7	282.3	248.1	230.8	220.9
12.5°	915.1	836.8	679.9	522.4	383.2	263.4	183.1	142.1	123.9	116.8	113.6
15°	885.4	790.3	599.6	416.8	255.7	151.4	106.0	92.5	89.6	89.6	89.3
17.5°	855.3	745.5	521.4	313.0	161.0	99.2	83.6	81.6	81.9	82.9	82.9
20°	826.9	703.0	446.2	223.1	105.7	79.4	75.9	75.2	76.2	77.4	77.1
22.5°	803.7	665.4	375.8	153.3	81.3	72.0	69.8	68.8	69.5	70.4	70.1
25°	787.5	633.5	311.2	106.9	70.8	65.6	63.0	61.8	61.2	61.8	61.5
27.5°	777.5	606.6	250.3	80.3	63.4	59.2	56.1	53.5	51.9	51.9	51.2
30°	771.1	581.2	196.2	66.6	57.3	52.8	48.3	44.8	42.2	41.6	41.3
32.5°	770.8	559.6	146.6	58.9	51.6	46.4	41.0	36.5	33.7	32.9	32.6
35°	778.8	542.0	107.9	53.1	46.4	40.3	34.3	29.5	26.9	26.9	26.6
37.5°	799.6	531.6	81.6	48.7	42.2	35.2	28.8	24.3	22.1	22.7	22.7
40°	838.3	529.8	66.6	45.1	38.8	30.7	23.3	19.8	18.9	19.8	19.8
42.5°	897.5	540.0	59.2	42.6	35.5	26.3	19.5	17.0	16.7	17.6	17.6
45°	974.7	560.2	55.0	40.3	32.0	21.8	16.4	14.7	14.4	15.7	15.7
47.5°	1068.2	587.4	51.2	37.7	28.4	17.9	13.8	12.5	12.5	13.8	14.1
50°	1179.0	624.2	47.4	35.2	25.6	15.0	11.6	10.5	10.8	12.2	12.5
52.5°	1306.3	669.3	43.9	32.9	22.4	12.2	9.6	9.0	9.3	10.5	10.8
55°	1416.1	708.7	39.7	30.7	18.2	9.9	8.0	7.7	8.0	9.6	9.6
57.5°	1511.8	746.4	35.8	27.2	14.4	8.0	6.4	6.4	7.1	8.6	9.0
60°	1638.9	806.0	32.6	23.0	10.8	6.0	5.1	5.4	6.4	7.7	8.0
62.5°	1863.9	907.2	28.4	19.2	8.0	4.8	4.2	4.5	5.7	7.4	7.7
65°	2145.5	1002.9	23.7	16.0	6.0	3.5	3.2	4.2	5.7	7.4	7.7
67.5°	2116.8	872.3	18.5	12.8	4.5	2.9	2.6	3.9	5.4	7.4	7.7
70°	1716.6	611.4	13.8	8.6	3.5	2.6	2.6	3.9	5.4	7.1	7.4
72.5°	1190.7	340.2	10.5	5.7	3.2	2.6	2.3	3.5	5.1	7.1	7.4
75°	566.6	104.3	8.3	4.2	2.9	2.3	1.9	3.5	5.1	7.1	7.4
77.5°	108.8	26.6	6.8	3.5	2.6	2.3	1.9	3.2	5.1	6.8	7.1
80°	36.8	11.9	5.4	3.2	2.6	2.3	1.9	3.2	4.8	6.4	6.8
82.5°	20.2	6.8	4.8	2.9	2.6	1.9	1.6	2.9	4.5	6.4	6.8
85°	15.7	4.8	3.9	2.9	2.6	1.9	1.6	2.9	4.5	6.0	6.4
87.5°	8.0	3.5	3.2	2.9	2.6	1.9	1.6	2.6	4.2	5.7	6.4
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)