

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: McGRAW-EDISON

Report Number: P321707

Luminaire Tested: **GLEON-SA3A-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8044 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

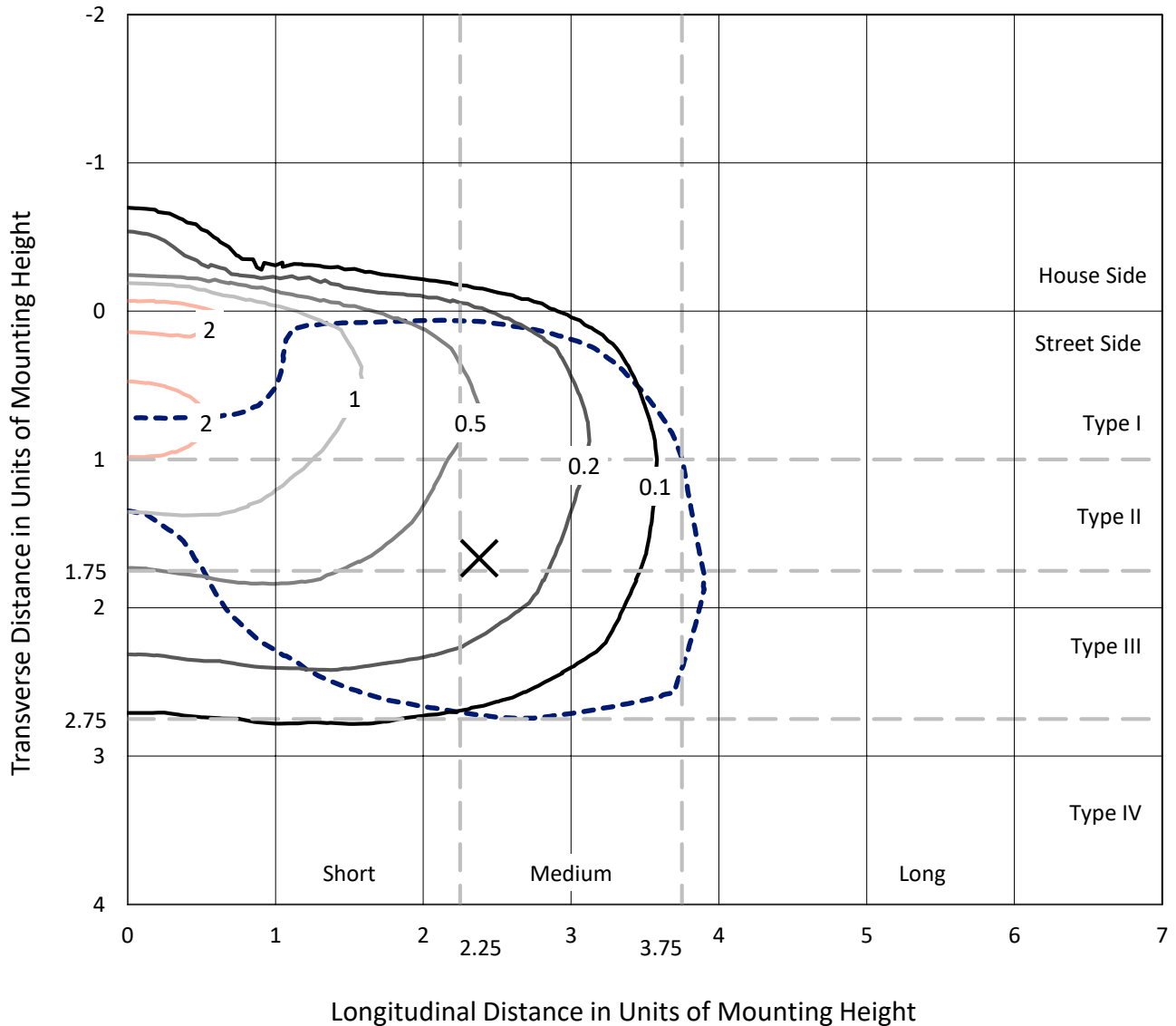
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

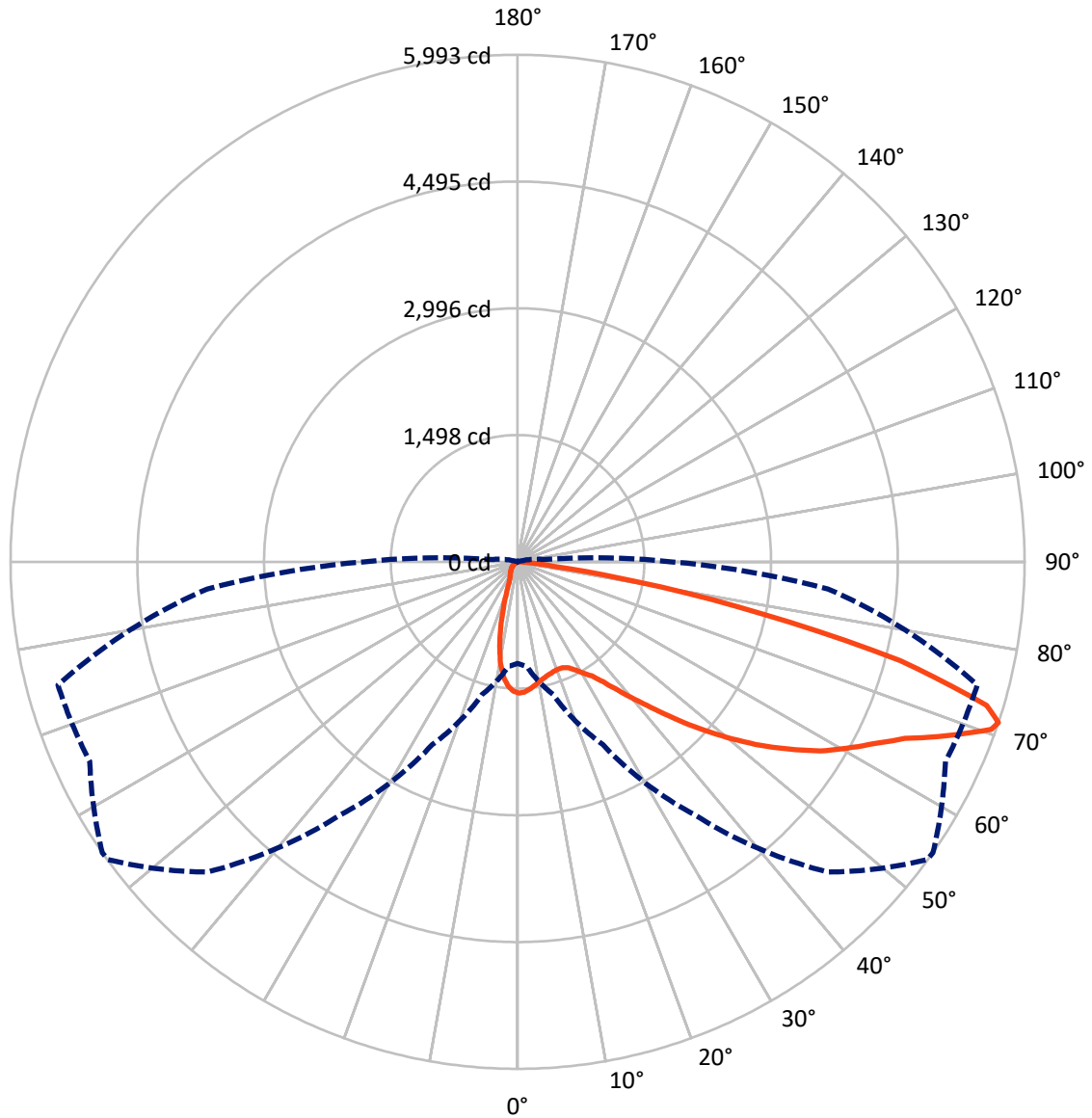
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.9	0.0	636.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	7407.1	0.0	7407.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	8044.0	0.0	8044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	1.6
10°-20°	298.6	3.7
20°-30°	479.9	6.0
30°-40°	815.3	10.1
40°-50°	1265.5	15.7
50°-60°	1701.4	21.2
60°-70°	2081.4	25.9
70°-80°	1217.0	15.1
80°-90°	52.6	0.7
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°	8044.0	100.0
0°-180°	8044.0	100.0

Coefficient of Utilization

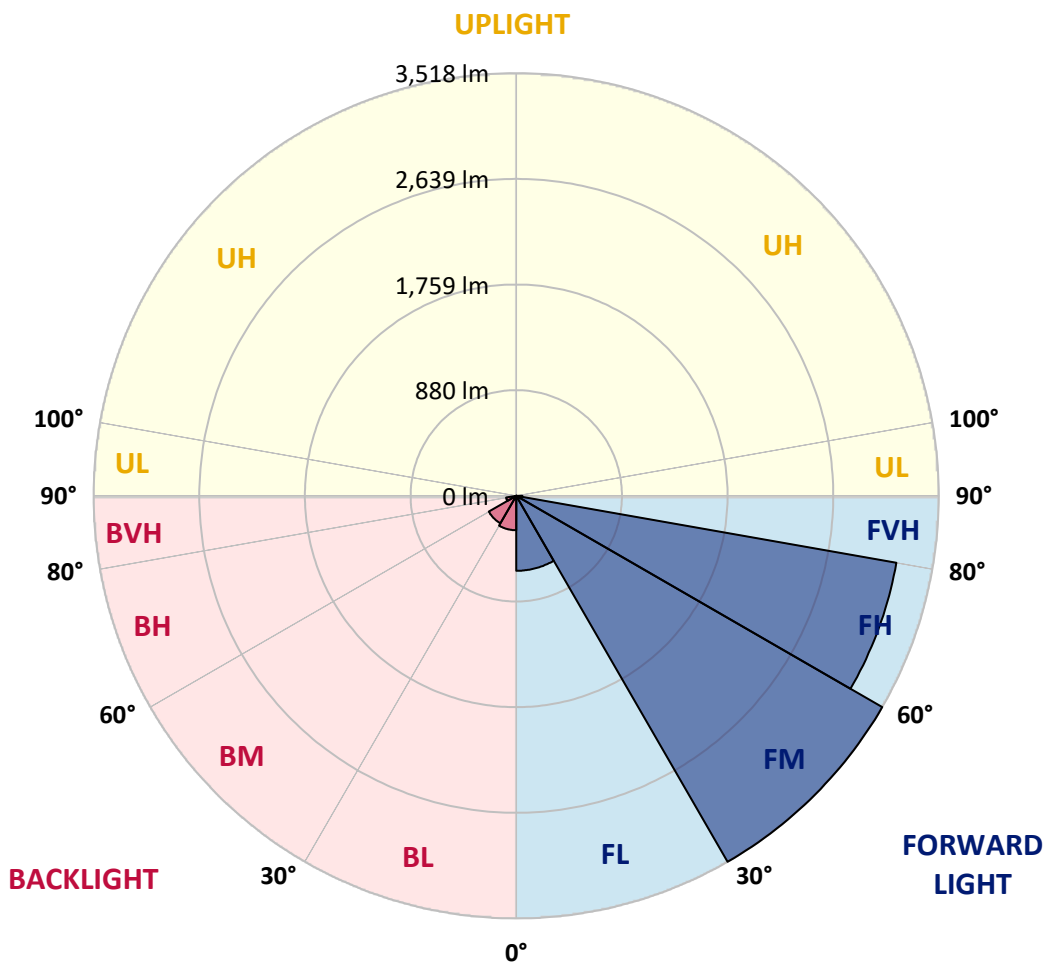


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.1	7.8			
FM (30°-60°)	3518.2	43.7			
FH (60°-80°)	3213.0	39.9			G2/5000
FVH (80°-90°)	51.8	0.6			G1/100
BL (0°-30°)	286.7	3.6	B1/500		
BM (30°-60°)	264.1	3.3	B1/1000		
BH (60°-80°)	85.3	1.1	B0/110		G0/110
BVH (80°-90°)	0.8	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°	54°	55°	65°	75°	85°
0°	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3
2.5°	1505.8	1507.6	1514.1	1517.0	1523.9	1535.4	1541.2	1541.6	1551.0	1554.6	1557.5
5°	1399.3	1410.1	1420.9	1432.5	1453.4	1481.2	1508.7	1511.2	1541.6	1564.0	1575.9
7.5°	1307.5	1317.3	1330.3	1348.7	1378.3	1422.0	1467.9	1473.3	1530.7	1581.7	1608.4
10°	1213.2	1221.2	1240.0	1267.1	1307.9	1366.4	1428.1	1437.2	1521.0	1605.5	1652.4
12.5°	1112.5	1117.2	1139.9	1178.9	1238.9	1313.3	1394.6	1406.5	1514.8	1632.9	1704.5
15°	1035.9	1038.1	1059.7	1100.2	1168.8	1265.6	1368.6	1383.0	1516.3	1665.8	1761.2
17.5°	1016.4	1017.5	1029.0	1056.8	1117.5	1223.0	1348.0	1365.7	1520.6	1698.0	1818.2
20°	1095.5	1087.9	1076.0	1071.7	1097.7	1197.3	1335.7	1355.5	1526.4	1726.5	1869.5
22.5°	1312.6	1290.2	1240.7	1174.6	1134.5	1199.2	1338.9	1358.8	1544.8	1761.5	1928.8
25°	1634.7	1603.7	1519.5	1389.5	1264.5	1251.2	1366.0	1386.3	1580.6	1803.4	1985.5
27.5°	2001.4	1970.7	1867.7	1682.1	1469.0	1354.1	1428.1	1446.9	1633.7	1840.6	2028.8
30°	2352.4	2343.8	2222.4	2011.5	1726.1	1521.0	1508.3	1524.2	1673.0	1863.0	2063.1
32.5°	2650.1	2636.3	2538.8	2333.7	2020.5	1721.4	1602.6	1607.3	1702.7	1891.9	2107.9
35°	2926.0	2909.0	2823.4	2629.5	2322.5	1966.3	1747.8	1740.9	1767.3	1950.1	2172.9
37.5°	3166.9	3182.5	3087.5	2902.9	2593.3	2221.0	1943.6	1923.0	1868.4	2044.7	2267.2
40°	3368.5	3368.5	3319.0	3165.1	2885.9	2484.3	2165.0	2137.9	2020.5	2190.6	2386.7
42.5°	3441.1	3456.6	3475.0	3388.0	3147.8	2758.1	2411.7	2383.5	2234.7	2397.6	2537.7
45°	3445.4	3470.0	3564.2	3563.9	3384.4	3030.0	2689.8	2676.4	2509.2	2663.4	2724.8
47.5°	3384.4	3415.1	3570.4	3658.5	3571.8	3283.2	2993.9	2977.3	2831.7	2989.2	2920.6
50°	3290.1	3324.0	3504.6	3695.7	3699.3	3503.6	3314.3	3289.4	3186.8	3361.6	3122.9
52.5°	3121.4	3187.1	3445.8	3704.4	3783.1	3693.9	3619.1	3608.3	3584.1	3720.3	3283.9
55°	2760.6	2833.5	3298.0	3707.3	3860.8	3862.6	3904.8	3907.7	3956.5	4055.4	3403.9
57.5°	2590.1	2631.3	3040.1	3721.0	3976.0	4054.0	4196.0	4218.3	4293.8	4373.7	3540.8
60°	2482.8	2531.6	2913.0	3702.2	4156.9	4305.0	4465.8	4473.3	4554.3	4702.0	3726.0
62.5°	2397.2	2445.3	2832.8	3630.0	4360.3	4607.0	4729.4	4730.2	4790.8	5093.2	3936.6
65°	2185.9	2226.4	2670.6	3548.7	4494.7	4905.7	5035.7	5031.0	5080.5	5505.6	4181.1
67.5°	1880.4	1911.4	2339.4	3240.6	4444.1	5177.3	5498.0	5482.5	5422.6	5862.1	4277.2
70°	1453.8	1465.0	1843.9	2700.6	3970.2	5281.7	5944.8	5936.9	5632.4	5798.2	3925.1
71°	1201.7	1238.5	1625.0	2383.5	3652.7	5185.3	5988.2	5992.9	5579.7	5624.1	3682.7
72.5°	697.8	729.2	1177.8	1830.5	3101.2	4782.9	5763.5	5797.5	5333.3	5115.5	3145.6
75°	149.5	160.0	436.7	886.0	1705.9	3352.2	4549.2	4670.2	4346.9	3480.1	1895.9
77.5°	104.0	112.3	187.1	402.0	563.8	1656.4	2826.0	2962.5	2597.0	1307.9	606.8
80°	82.4	91.7	145.9	198.7	152.4	534.2	1323.8	1407.2	866.1	291.8	102.2
82.5°	45.9	54.5	113.8	107.3	58.5	101.5	370.6	419.0	173.4	58.9	24.2
85°	13.4	16.3	73.3	78.0	24.9	19.5	63.2	78.4	32.9	15.5	10.8
87.5°	0.0	0.0	35.4	30.0	7.2	2.9	5.8	6.5	6.5	6.5	7.2
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°	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3
2.5°	1557.5	1560.0	1551.0	1539.0	1526.4	1510.9	1494.6	1482.0	1481.6	1475.5	1469.3
5°	1576.6	1575.2	1550.2	1512.3	1467.5	1420.9	1376.5	1326.3	1309.7	1289.1	1282.2
7.5°	1612.0	1601.9	1549.1	1466.1	1367.8	1270.3	1169.5	1068.0	1024.7	985.7	978.8
10°	1656.4	1637.3	1542.3	1396.7	1216.5	1036.6	884.6	746.6	685.9	639.3	637.1
12.5°	1702.7	1673.4	1523.1	1292.0	1018.2	765.4	590.2	454.4	403.8	371.3	374.2
15°	1751.1	1707.3	1482.0	1150.8	792.5	519.4	362.6	282.8	262.6	254.3	256.4
17.5°	1800.5	1730.8	1424.5	980.6	569.6	335.2	251.0	228.6	228.6	230.4	231.2
20°	1843.5	1743.5	1340.0	789.9	386.1	244.2	219.6	216.4	218.2	221.0	221.4
22.5°	1886.1	1744.2	1229.9	596.7	270.2	213.8	209.1	207.7	208.8	212.0	212.4
25°	1920.8	1735.5	1091.9	424.4	215.6	201.5	199.4	198.7	199.4	203.4	203.4
27.5°	1934.9	1704.1	923.6	298.3	193.2	187.8	187.1	187.8	188.9	191.8	192.2
30°	1936.3	1649.2	740.1	216.0	175.2	169.4	170.8	173.4	172.3	171.6	172.3
32.5°	1940.0	1585.6	561.3	177.7	160.0	151.0	149.2	149.2	144.8	142.3	140.9
35°	1951.9	1510.9	407.1	159.6	144.5	134.0	127.1	119.2	110.9	106.6	105.5
37.5°	1970.7	1432.5	291.5	147.7	130.8	118.8	105.8	91.7	79.8	76.6	76.6
40°	2005.0	1351.6	215.6	138.3	119.9	105.1	85.6	67.2	56.3	54.5	54.5
42.5°	2059.1	1266.3	171.9	130.0	110.5	91.0	65.4	48.8	40.8	39.7	39.4
45°	2115.5	1172.4	150.3	122.1	100.4	74.8	48.4	36.1	31.4	30.3	30.3
47.5°	2171.8	1072.4	139.8	114.5	90.7	58.2	36.1	28.5	26.4	26.4	26.7
50°	2219.5	968.0	132.2	106.2	78.0	44.1	28.5	24.2	23.5	24.9	25.3
52.5°	2231.4	865.4	122.8	95.7	62.5	33.6	23.5	21.3	21.3	21.3	21.3
55°	2224.2	786.0	110.5	82.7	46.2	26.7	20.2	18.8	18.4	18.4	18.4
57.5°	2248.8	739.0	88.5	64.3	33.2	21.7	17.7	16.6	15.9	15.5	15.5
60°	2298.3	708.3	63.2	46.2	24.9	18.1	15.2	14.1	13.0	12.3	12.3
62.5°	2364.0	681.6	47.0	34.3	19.1	14.4	12.6	11.6	10.1	9.4	9.4
65°	2414.6	633.9	35.8	25.6	14.4	11.6	9.8	9.4	7.2	6.5	6.1
67.5°	2337.3	529.1	28.9	18.8	10.8	9.0	7.6	7.2	4.3	3.6	3.6
70°	2004.6	368.4	23.1	13.7	7.9	7.2	6.1	4.7	3.3	2.9	2.9
71°	1817.9	307.7	20.9	11.6	6.9	6.9	5.8	4.0	2.9	2.5	2.5
72.5°	1510.1	218.5	17.7	9.0	6.1	7.2	6.1	3.6	2.9	2.5	2.2
75°	876.6	91.4	12.3	6.1	4.7	8.7	7.9	3.3	2.2	1.8	1.8
77.5°	263.7	33.6	6.9	4.0	3.6	7.6	9.0	2.9	1.1	0.4	0.4
80°	48.0	14.4	4.3	2.5	2.5	4.7	6.9	1.4	0.0	0.0	0.0
82.5°	17.0	7.2	2.5	1.4	1.1	2.2	3.3	0.0	0.0	0.0	0.0
85°	9.8	5.1	1.4	0.7	0.0	0.4	0.7	0.0	0.0	0.0	0.0
87.5°	6.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)