

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: P321726

Luminaire Tested: **GLEON-SA2C-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321726
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-SA2C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 8183 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

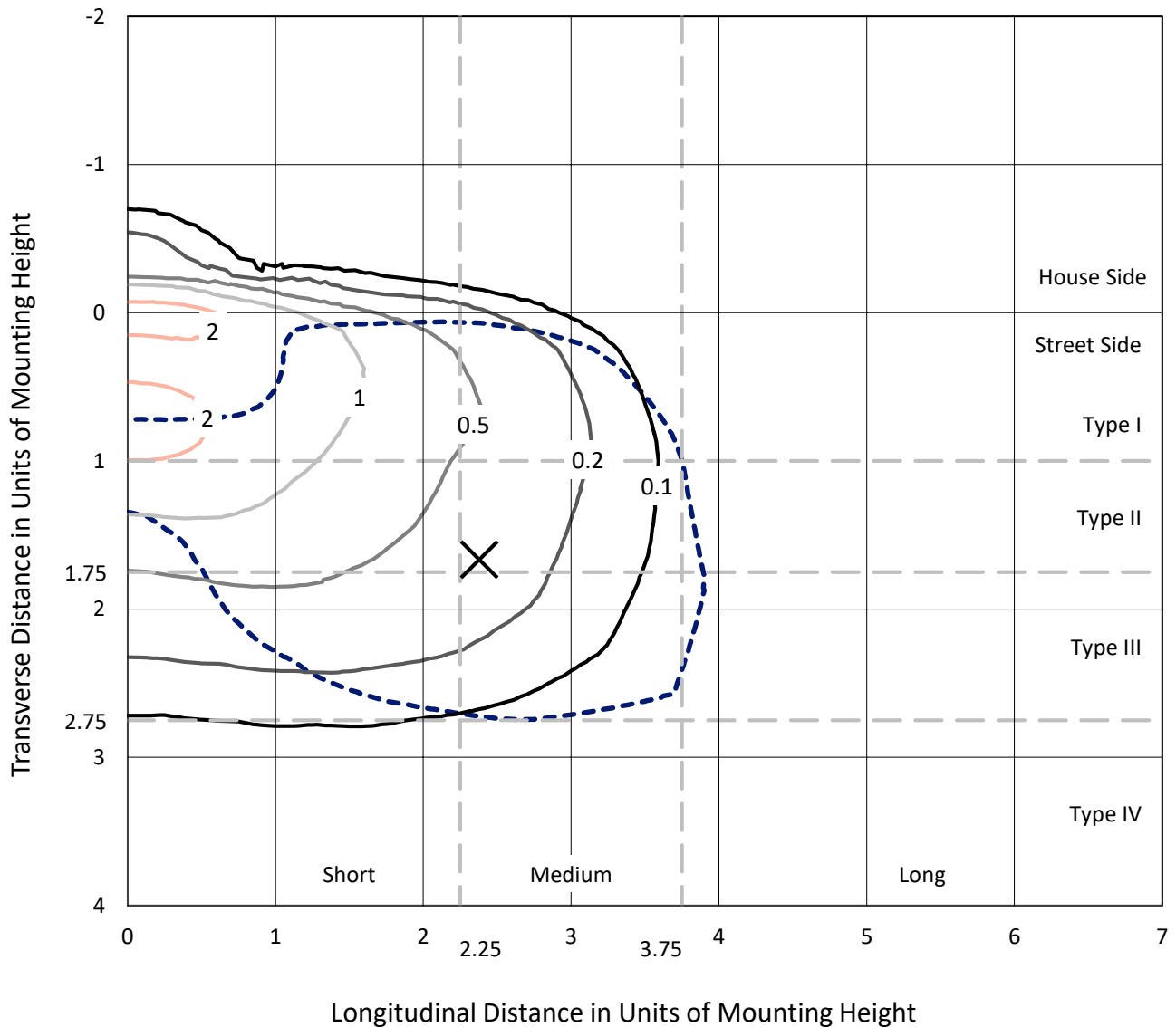
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

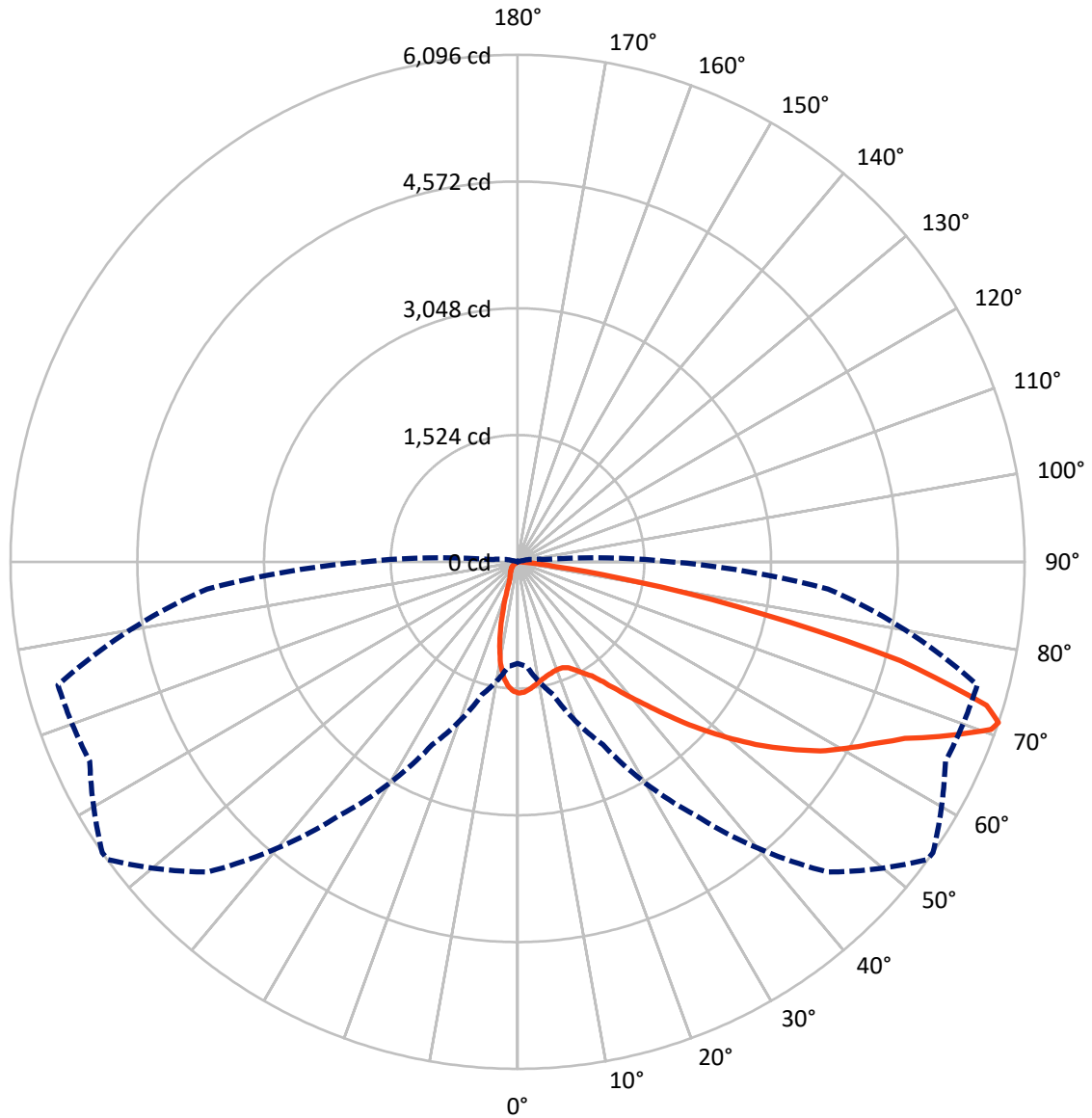
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	647.9	0.0	647.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	7535.1	0.0	7535.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	8183.0	0.0	8183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	1.6
10°-20°	303.8	3.7
20°-30°	488.2	6.0
30°-40°	829.4	10.1
40°-50°	1287.4	15.7
50°-60°	1730.8	21.2
60°-70°	2117.4	25.9
70°-80°	1238.0	15.1
80°-90°	53.5	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°	8183.0	100.0
0°-180°	8183.0	100.0

Coefficient of Utilization

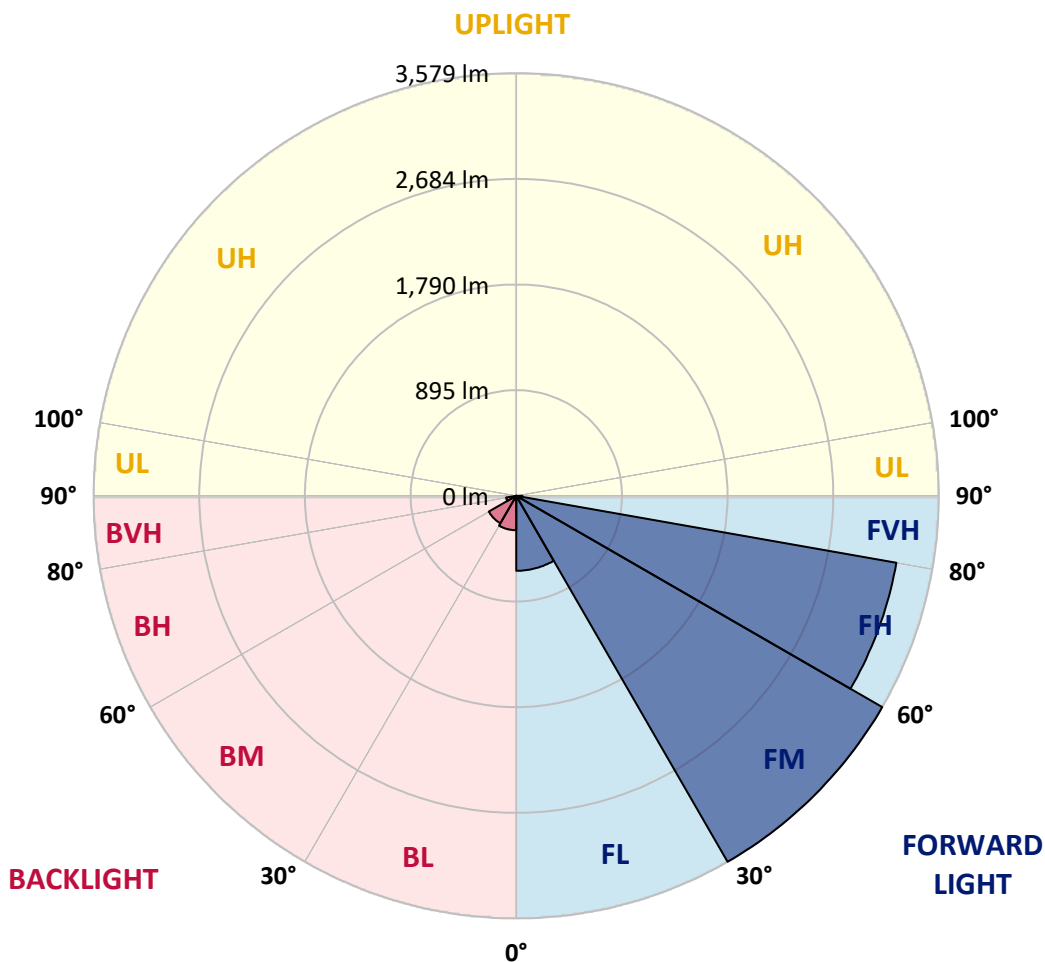


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.9	7.8			
FM (30°-60°)	3579.0	43.7			
FH (60°-80°)	3268.6	39.9			G2/5000
FVH (80°-90°)	52.7	0.6			G1/100
BL (0°-30°)	291.6	3.6	B1/500		
BM (30°-60°)	268.6	3.3	B1/1000		
BH (60°-80°)	86.8	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°	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1
2.5°	1531.8	1533.7	1540.3	1543.2	1550.2	1562.0	1567.8	1568.2	1577.8	1581.4	1584.4
5°	1423.4	1434.5	1445.5	1457.2	1478.5	1506.8	1534.8	1537.3	1568.2	1591.0	1603.1
7.5°	1330.1	1340.0	1353.3	1372.0	1402.1	1446.6	1493.2	1498.8	1557.2	1609.0	1636.2
10°	1234.2	1242.3	1261.4	1289.0	1330.5	1390.0	1452.8	1462.0	1547.3	1633.2	1681.0
12.5°	1131.7	1136.5	1159.6	1199.3	1260.3	1336.0	1418.7	1430.8	1541.0	1661.2	1733.9
15°	1053.8	1056.0	1078.0	1119.2	1189.0	1287.5	1392.2	1406.9	1542.5	1694.6	1791.6
17.5°	1034.0	1035.1	1046.8	1075.1	1136.8	1244.1	1371.3	1389.3	1546.9	1727.3	1849.7
20°	1114.4	1106.7	1094.6	1090.2	1116.6	1218.0	1358.8	1379.0	1552.8	1756.3	1901.8
22.5°	1335.2	1312.5	1262.1	1194.9	1154.1	1219.9	1362.1	1382.3	1571.5	1792.0	1962.1
25°	1663.0	1631.4	1545.8	1413.5	1286.4	1272.8	1389.6	1410.2	1607.9	1834.6	2019.8
27.5°	2035.9	2004.7	1900.0	1711.1	1494.3	1377.5	1452.8	1471.9	1661.9	1872.4	2063.9
30°	2393.1	2384.3	2260.8	2046.2	1756.0	1547.3	1534.4	1550.6	1701.9	1895.2	2098.8
32.5°	2695.8	2681.9	2582.7	2374.0	2055.4	1751.2	1630.3	1635.1	1732.1	1924.6	2144.3
35°	2976.6	2959.3	2872.2	2674.9	2362.6	2000.3	1778.0	1771.0	1797.8	1983.8	2210.5
37.5°	3221.6	3237.4	3140.8	2953.1	2638.2	2259.3	1977.2	1956.2	1900.7	2080.0	2306.4
40°	3426.7	3426.7	3376.3	3219.8	2935.8	2527.2	2202.4	2174.8	2055.4	2228.5	2428.0
42.5°	3500.5	3516.3	3535.1	3446.5	3202.2	2805.7	2453.3	2424.7	2273.3	2439.0	2581.6
45°	3504.9	3529.9	3625.8	3625.5	3442.8	3082.4	2736.3	2722.7	2552.6	2709.4	2771.9
47.5°	3442.8	3474.1	3632.1	3721.7	3633.5	3340.0	3045.6	3028.7	2880.7	3040.9	2971.1
50°	3346.9	3381.5	3565.2	3759.6	3763.2	3564.1	3371.6	3346.2	3241.9	3419.7	3176.8
52.5°	3175.3	3242.2	3505.3	3768.4	3848.5	3757.7	3681.7	3670.6	3646.0	3784.6	3340.7
55°	2808.3	2882.5	3355.0	3771.3	3927.5	3929.3	3972.3	3975.2	4024.9	4125.5	3462.7
57.5°	2634.9	2676.7	3092.7	3785.3	4044.7	4124.1	4268.5	4291.2	4368.0	4449.2	3601.9
60°	2525.7	2575.3	2963.3	3766.2	4228.8	4379.4	4542.9	4550.6	4633.0	4783.2	3790.4
62.5°	2438.6	2487.5	2881.8	3692.7	4435.6	4686.6	4811.2	4811.9	4873.6	5181.2	4004.6
65°	2223.7	2264.9	2716.8	3610.0	4572.3	4990.5	5122.7	5118.0	5168.3	5600.8	4253.4
67.5°	1912.9	1944.5	2379.9	3296.6	4520.9	5266.8	5593.1	5577.3	5516.3	5963.4	4351.1
70°	1478.9	1490.3	1875.7	2747.3	4038.8	5373.0	6047.6	6039.5	5729.7	5898.4	3992.9
71°	1222.4	1259.9	1653.1	2424.7	3715.8	5274.9	6091.7	6096.4	5676.1	5721.3	3746.3
72.5°	709.9	741.8	1198.2	1862.1	3154.8	4865.5	5863.1	5897.7	5425.5	5203.9	3200.0
75°	152.1	162.8	444.2	901.3	1735.4	3410.1	4627.8	4750.9	4422.0	3540.2	1928.7
77.5°	105.8	114.3	190.3	409.0	573.6	1685.0	2874.8	3013.7	2641.8	1330.5	617.3
80°	83.8	93.3	148.4	202.1	155.1	543.4	1346.6	1431.5	881.1	296.9	104.0
82.5°	46.7	55.5	115.7	109.1	59.5	103.2	377.0	426.2	176.4	59.9	24.6
85°	13.6	16.5	74.6	79.4	25.4	19.8	64.3	79.7	33.4	15.8	11.0
87.5°	0.0	0.0	36.0	30.5	7.3	2.9	5.9	6.6	6.6	6.6	7.3
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°	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1	1578.1
2.5°	1584.4	1586.9	1577.8	1565.6	1552.8	1537.0	1520.4	1507.6	1507.2	1501.0	1494.7
5°	1603.8	1602.4	1577.0	1538.4	1492.9	1445.5	1400.3	1349.2	1332.3	1311.4	1304.4
7.5°	1639.8	1629.6	1575.9	1491.4	1391.5	1292.3	1189.7	1086.5	1042.4	1002.7	995.7
10°	1685.0	1665.6	1568.9	1420.9	1237.5	1054.5	899.8	759.5	697.8	650.4	648.2
12.5°	1732.1	1702.3	1549.5	1314.3	1035.8	778.6	600.4	462.2	410.8	377.7	380.7
15°	1781.3	1736.9	1507.6	1170.6	806.1	528.4	368.9	287.7	267.1	258.7	260.9
17.5°	1831.6	1760.7	1449.2	997.6	579.4	341.0	255.4	232.6	232.6	234.4	235.2
20°	1875.4	1773.6	1363.2	803.6	392.8	248.4	223.4	220.1	221.9	224.9	225.2
22.5°	1918.7	1774.3	1251.1	607.0	274.8	217.5	212.7	211.3	212.4	215.7	216.1
25°	1954.0	1765.5	1110.7	431.7	219.4	205.0	202.8	202.1	202.8	206.9	206.9
27.5°	1968.3	1733.5	939.5	303.5	196.6	191.1	190.3	191.1	192.2	195.1	195.5
30°	1969.8	1677.7	752.9	219.7	178.2	172.3	173.8	176.4	175.3	174.5	175.3
32.5°	1973.5	1613.0	571.0	180.8	162.8	153.6	151.7	151.7	147.3	144.8	143.3
35°	1985.6	1537.0	414.1	162.4	147.0	136.3	129.3	121.3	112.8	108.4	107.3
37.5°	2004.7	1457.2	296.5	150.3	133.0	120.9	107.7	93.3	81.2	77.9	77.9
40°	2039.6	1374.9	219.4	140.7	122.0	106.9	87.1	68.3	57.3	55.5	55.5
42.5°	2094.7	1288.2	174.9	132.3	112.4	92.6	66.5	49.6	41.5	40.4	40.1
45°	2152.0	1192.7	152.9	124.2	102.1	76.1	49.2	36.7	32.0	30.9	30.9
47.5°	2209.4	1090.9	142.2	116.5	92.2	59.2	36.7	29.0	26.8	26.8	27.2
50°	2257.9	984.7	134.5	108.0	79.4	44.8	29.0	24.6	23.9	25.4	25.7
52.5°	2270.0	880.4	124.9	97.4	63.6	34.2	23.9	21.7	21.7	21.7	21.7
55°	2262.6	799.5	112.4	84.1	47.0	27.2	20.6	19.1	18.7	18.7	18.7
57.5°	2287.6	751.8	90.0	65.4	33.8	22.0	18.0	16.9	16.2	15.8	15.8
60°	2338.0	720.5	64.3	47.0	25.4	18.4	15.4	14.3	13.2	12.5	12.5
62.5°	2404.8	693.3	47.8	34.9	19.5	14.7	12.9	11.8	10.3	9.6	9.6
65°	2456.3	644.8	36.4	26.1	14.7	11.8	9.9	9.6	7.3	6.6	6.2
67.5°	2377.7	538.3	29.4	19.1	11.0	9.2	7.7	7.3	4.4	3.7	3.7
70°	2039.2	374.8	23.5	14.0	8.1	7.3	6.2	4.8	3.3	2.9	2.9
71°	1849.3	313.1	21.3	11.8	7.0	7.0	5.9	4.0	2.9	2.6	2.6
72.5°	1536.2	222.3	18.0	9.2	6.2	7.3	6.2	3.7	2.9	2.6	2.2
75°	891.8	93.0	12.5	6.2	4.8	8.8	8.1	3.3	2.2	1.8	1.8
77.5°	268.2	34.2	7.0	4.0	3.7	7.7	9.2	2.9	1.1	0.4	0.4
80°	48.9	14.7	4.4	2.6	2.6	4.8	7.0	1.5	0.0	0.0	0.0
82.5°	17.3	7.3	2.6	1.5	1.1	2.2	3.3	0.0	0.0	0.0	0.0
85°	9.9	5.1	1.5	0.7	0.0	0.4	0.7	0.0	0.0	0.0	0.0
87.5°	6.6	1.5	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)