

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: P323966

Luminaire Tested: **GLEON-SA2C-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8634 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

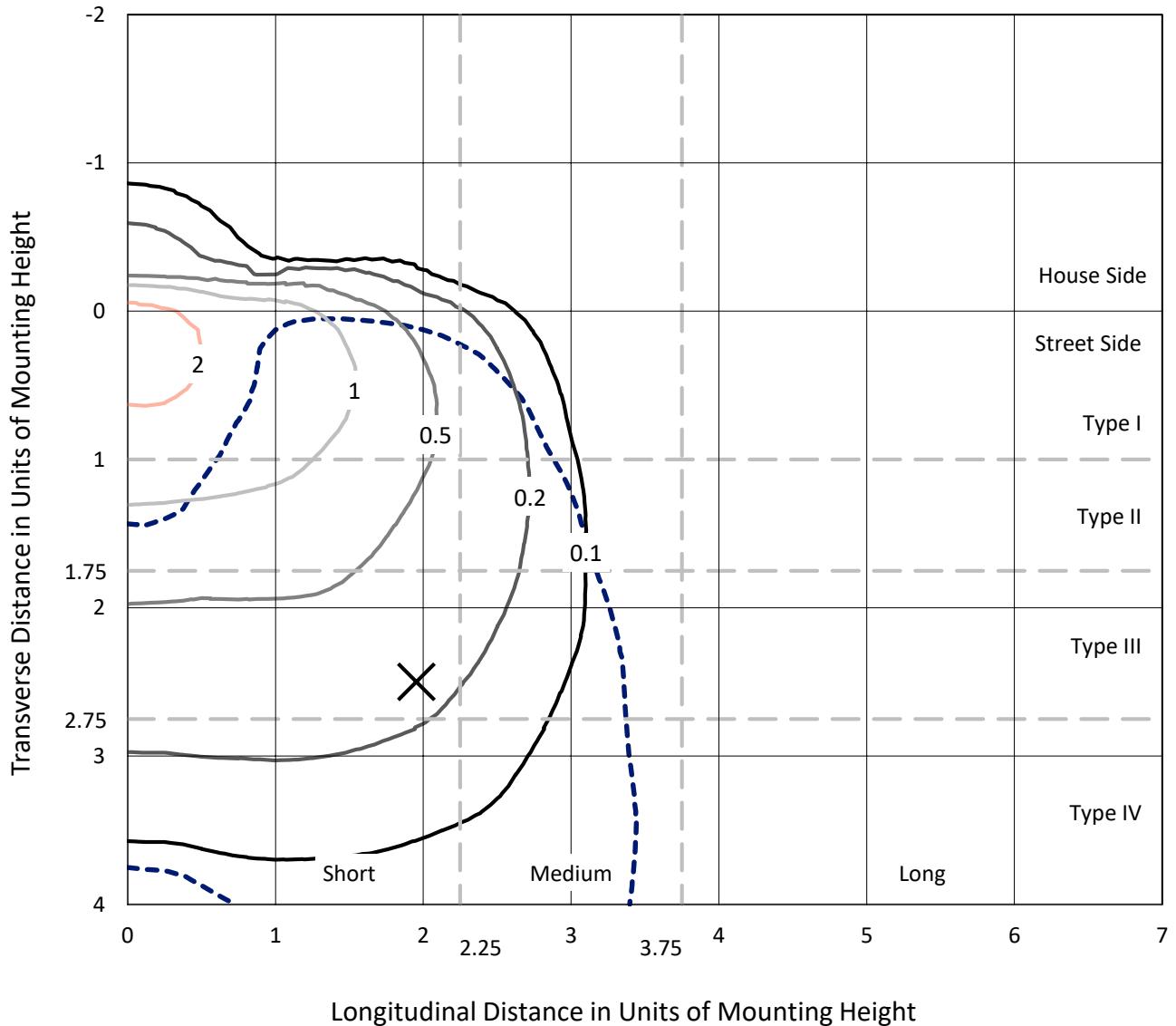
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

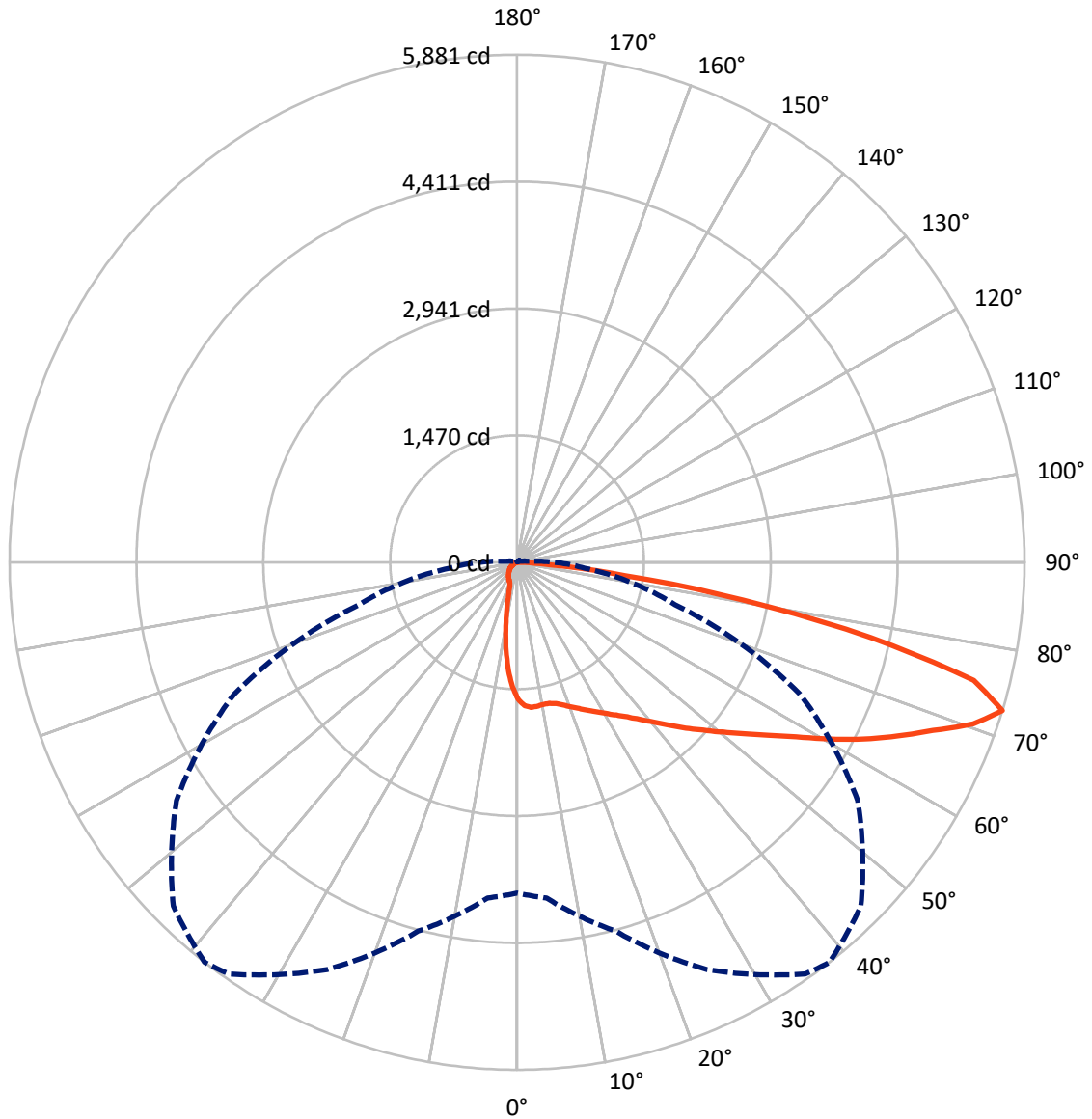
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	726.6	0.0	726.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7907.4	0.0	7907.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	8634.0	0.0	8634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.6
10°-20°	330.9	3.8
20°-30°	526.2	6.1
30°-40°	791.1	9.2
40°-50°	1206.9	14.0
50°-60°	1705.8	19.8
60°-70°	2139.6	24.8
70°-80°	1599.8	18.5
80°-90°	198.4	2.3
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°	8634.0	100.0
0°-180°	8634.0	100.0

Coefficient of Utilization

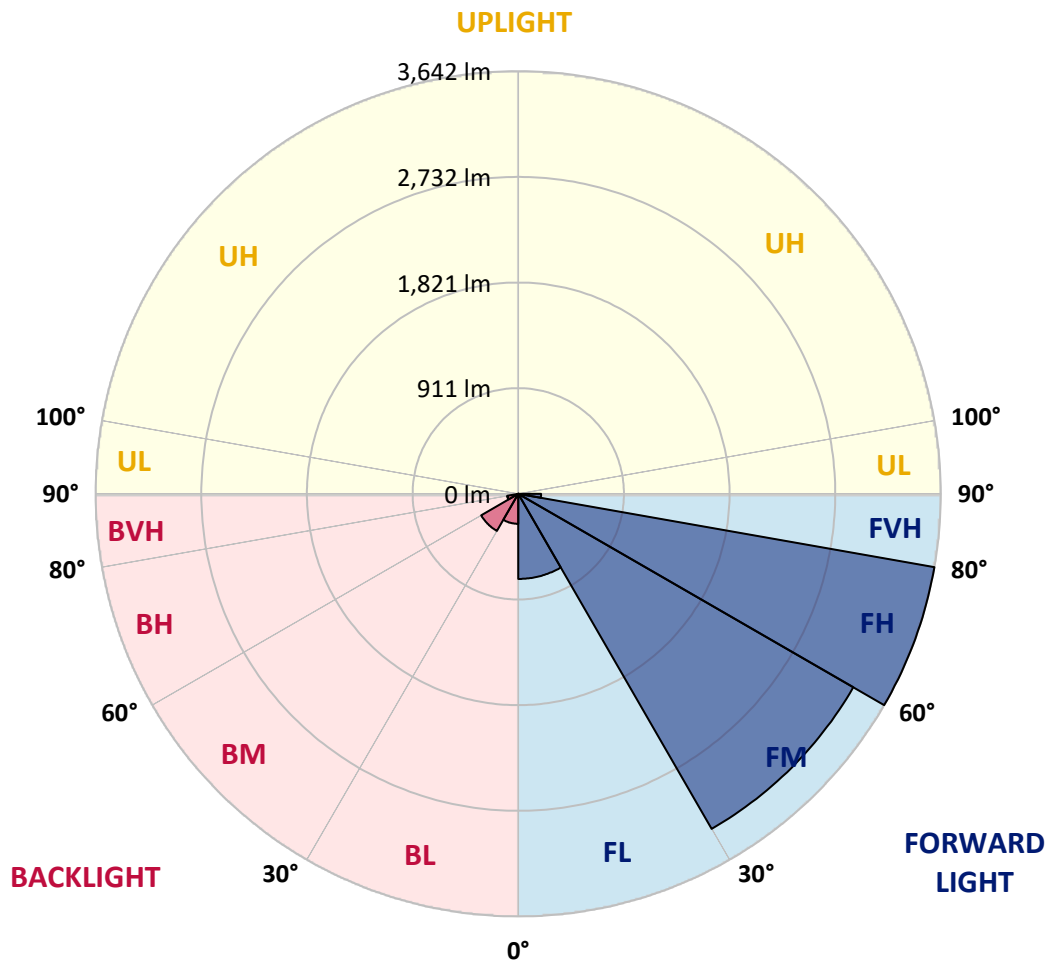


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	733.7	8.5			
FM (30°-60°)	3334.8	38.6			
FH (60°-80°)	3642.4	42.2			G2/5000
FVH (80°-90°)	196.5	2.3			G2/225
BL (0°-30°)	258.7	3.0	B1/500		
BM (30°-60°)	369.0	4.3	B1/1000		
BH (60°-80°)	97.1	1.1	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8
2.5°	1685.3	1685.7	1681.7	1675.3	1667.0	1662.7	1655.5	1644.1	1631.9	1610.0	1586.3
5°	1719.7	1719.7	1714.7	1706.1	1692.8	1688.9	1675.3	1657.0	1631.9	1596.4	1556.6
7.5°	1716.1	1716.9	1710.0	1701.1	1687.8	1684.2	1667.7	1647.3	1616.1	1573.1	1522.1
10°	1697.5	1699.3	1693.9	1689.6	1677.4	1673.5	1658.0	1637.6	1606.4	1560.5	1502.1
12.5°	1678.5	1680.3	1682.1	1686.0	1678.5	1677.0	1664.9	1647.6	1617.9	1570.2	1504.2
15°	1666.3	1669.9	1682.8	1698.2	1700.0	1698.6	1690.7	1674.5	1644.4	1594.9	1519.6
17.5°	1666.3	1672.0	1698.9	1728.3	1738.7	1739.8	1733.0	1710.4	1674.5	1621.5	1534.0
20°	1680.3	1688.2	1730.1	1771.7	1788.9	1788.9	1775.7	1744.1	1702.1	1645.5	1543.7
22.5°	1716.1	1726.5	1779.2	1827.3	1845.6	1841.6	1823.7	1777.8	1730.8	1672.7	1555.9
25°	1786.8	1794.7	1849.5	1897.9	1909.0	1900.1	1877.5	1818.7	1767.4	1709.7	1578.1
27.5°	1877.9	1878.9	1935.6	1976.5	1969.6	1963.5	1935.2	1870.0	1820.1	1762.4	1616.5
30°	1977.9	1977.9	2027.7	2058.9	2038.1	2033.1	2004.8	1932.0	1887.5	1834.1	1671.0
32.5°	2074.7	2079.0	2119.5	2139.3	2115.9	2110.9	2083.3	2010.5	1977.2	1943.5	1755.9
35°	2168.3	2171.5	2209.9	2220.6	2198.4	2199.8	2180.1	2118.5	2105.9	2101.6	1883.9
37.5°	2259.0	2259.7	2298.8	2305.6	2294.5	2306.7	2308.5	2254.0	2277.3	2312.1	2064.3
40°	2341.8	2342.6	2381.3	2398.9	2417.9	2433.6	2447.6	2418.6	2495.7	2576.4	2279.1
42.5°	2408.2	2415.7	2464.8	2498.2	2548.4	2578.5	2616.5	2615.1	2755.6	2876.8	2538.7
45°	2466.6	2479.5	2548.0	2606.5	2692.5	2740.6	2800.1	2846.7	3048.2	3211.4	2801.5
47.5°	2543.7	2555.9	2634.1	2729.8	2844.6	2907.7	3006.3	3107.0	3369.9	3539.8	3058.3
50°	2652.4	2647.0	2724.1	2861.4	3008.8	3091.6	3232.2	3383.1	3689.0	3826.0	3209.2
52.5°	2768.2	2766.0	2823.1	3004.5	3202.4	3299.2	3485.0	3668.6	3994.2	4023.2	3278.4
55°	2911.6	2896.2	2944.2	3167.6	3432.3	3536.3	3755.0	3951.1	4237.3	4134.4	3313.2
57.5°	3061.9	3036.4	3082.3	3349.4	3691.5	3814.5	4054.0	4226.5	4399.0	4210.4	3312.9
60°	3217.1	3187.0	3241.5	3576.8	4013.5	4155.9	4378.2	4412.6	4549.9	4248.7	3288.5
62.5°	3346.9	3329.0	3410.0	3819.9	4373.2	4513.0	4623.1	4581.9	4677.2	4278.5	3231.5
65°	3484.3	3485.3	3616.2	4103.5	4755.4	4849.7	4859.0	4801.3	4783.7	4272.4	3038.6
67.5°	3670.0	3687.2	3905.6	4488.6	5127.2	5200.0	5199.3	5039.0	4861.5	4030.0	2610.8
70°	3866.5	3907.0	4239.1	4929.3	5533.2	5607.0	5569.0	5190.4	4577.6	3258.7	1847.7
72.5°	3833.5	3903.8	4424.4	5207.2	5824.7	5881.0	5633.9	4818.5	3618.0	1894.0	786.7
75°	2957.5	3038.9	4056.9	4931.8	5518.8	5468.2	4840.7	3749.6	1977.2	528.5	177.1
77.5°	1562.3	1605.7	2680.0	3757.1	4303.2	4197.5	3410.0	2080.1	602.8	130.9	79.6
80°	818.3	828.3	1167.9	2131.7	2656.0	2656.7	2020.9	913.6	248.5	67.1	53.4
82.5°	438.2	446.8	617.1	985.0	1391.6	1261.5	773.8	502.7	144.5	38.0	51.3
85°	105.4	107.2	350.0	450.0	547.2	390.8	229.8	422.0	39.1	22.2	41.6
87.5°	40.5	41.2	129.8	194.7	139.5	90.4	107.6	157.4	5.0	8.6	6.5
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°	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8
2.5°	1572.0	1562.7	1539.7	1510.7	1484.9	1466.2	1438.2	1420.0	1407.8	1407.4	1402.7
5°	1532.2	1513.2	1463.7	1404.9	1351.5	1303.4	1246.8	1201.9	1168.6	1163.2	1151.7
7.5°	1489.5	1458.3	1382.3	1290.5	1200.9	1109.8	1004.0	938.4	882.1	855.2	852.3
10°	1463.3	1419.6	1311.7	1179.0	1038.4	890.3	751.9	656.2	587.0	567.3	552.6
12.5°	1458.0	1400.2	1257.2	1074.3	873.5	677.7	524.6	422.8	367.5	350.0	345.3
15°	1463.3	1391.3	1211.3	970.7	706.4	480.8	352.1	293.0	272.2	267.1	266.8
17.5°	1466.6	1380.5	1159.3	855.6	544.3	343.5	269.6	252.4	249.2	248.9	249.6
20°	1466.2	1364.0	1097.2	727.2	404.8	270.0	243.8	240.2	239.5	239.9	239.5
22.5°	1463.7	1344.7	1029.1	594.9	305.9	241.3	232.7	230.6	230.2	230.2	230.2
25°	1468.4	1329.2	954.2	468.3	252.1	228.1	222.7	220.9	220.5	220.5	219.8
27.5°	1485.2	1320.6	872.1	360.4	227.7	216.2	211.9	211.6	210.5	210.1	210.8
30°	1512.5	1320.6	782.0	280.4	213.0	204.0	200.8	200.1	199.7	199.4	199.7
32.5°	1560.5	1330.7	683.8	233.1	199.0	190.4	188.3	189.3	188.3	188.3	188.3
35°	1647.3	1360.8	580.9	203.3	184.3	177.1	175.0	176.4	175.7	175.7	175.3
37.5°	1773.9	1416.7	477.3	185.4	171.4	163.9	161.0	163.2	162.4	162.4	162.1
40°	1928.1	1498.1	378.7	171.8	158.8	151.0	148.4	149.5	147.7	147.7	148.4
42.5°	2118.5	1601.4	292.6	158.5	146.3	138.8	137.3	136.3	133.0	131.2	131.6
45°	2330.0	1709.0	228.1	145.6	134.5	128.4	126.2	123.3	118.0	114.4	114.7
47.5°	2519.0	1791.8	185.4	133.0	123.7	119.0	115.8	110.4	102.6	98.2	98.6
50°	2618.3	1804.3	157.8	120.5	113.7	109.0	104.3	96.1	86.8	82.1	81.8
52.5°	2643.8	1745.5	137.3	109.0	103.6	98.2	92.2	81.0	70.6	65.6	64.9
55°	2653.1	1655.9	119.0	98.2	92.9	86.8	78.9	66.3	56.7	51.6	51.3
57.5°	2622.2	1522.1	104.7	88.6	82.1	74.6	64.9	53.1	43.7	39.8	39.8
60°	2553.8	1341.1	93.6	78.2	71.0	62.4	52.4	41.2	32.6	29.4	29.4
62.5°	2417.1	1106.6	83.2	67.4	60.6	51.6	42.3	31.2	22.9	21.2	21.5
65°	2159.3	839.4	72.8	57.7	51.6	42.7	33.0	22.2	15.4	15.4	16.1
67.5°	1761.0	583.0	62.0	49.1	44.5	34.8	25.1	15.4	10.8	12.2	13.6
70°	1165.7	327.0	53.1	40.5	38.0	27.6	18.6	10.4	8.6	11.5	14.0
72.5°	440.0	127.3	44.5	32.6	33.0	21.2	13.3	7.9	7.9	12.6	16.5
75°	122.6	62.4	31.9	24.0	25.8	15.4	9.7	6.8	7.5	14.3	19.4
77.5°	72.1	45.9	20.8	14.0	17.6	10.8	6.5	5.4	6.5	12.2	18.6
80°	58.1	24.4	12.2	7.2	9.7	6.1	4.3	3.2	1.8	4.7	9.7
82.5°	58.1	14.7	5.7	5.0	5.0	3.2	2.2	1.4	0.4	0.0	2.5
85°	39.1	6.1	3.6	3.2	2.5	1.1	0.7	0.4	0.0	0.0	0.0
87.5°	6.5	2.5	1.4	0.7	0.4	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)