

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: P382860

Luminaire Tested: **GLEON-SA2B-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382860
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-SA2B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 8839.4 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

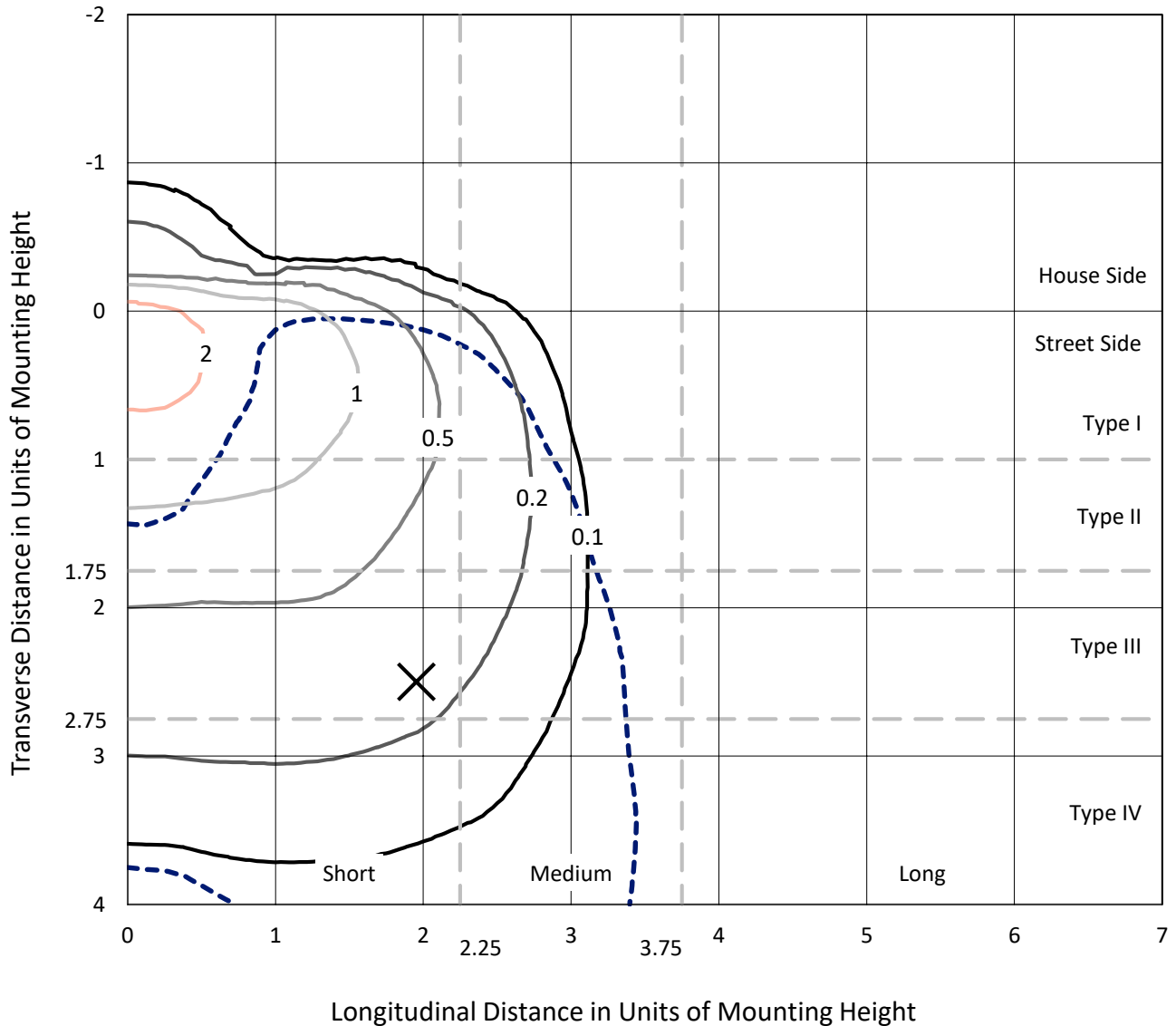
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

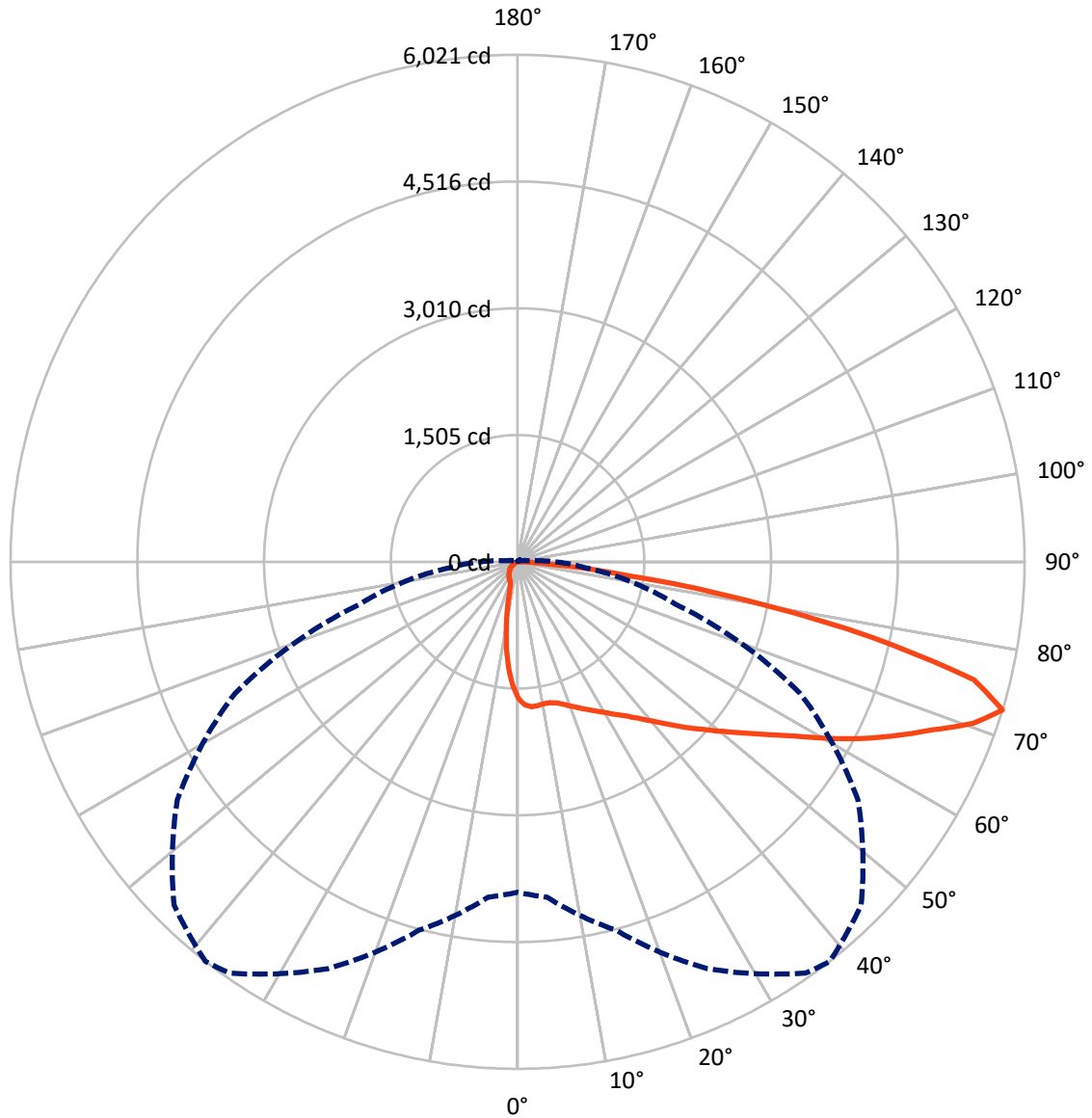
✕ Max cd
 - - - 1/2 Max cd



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	743.9	0.0	743.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8095.6	0.0	8095.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	8839.4	0.0	8839.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	1.6
10°-20°	338.7	3.8
20°-30°	538.7	6.1
30°-40°	809.9	9.2
40°-50°	1235.6	14.0
50°-60°	1746.4	19.8
60°-70°	2190.5	24.8
70°-80°	1637.9	18.5
80°-90°	203.1	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°	8839.4	100.0
0°-180°	8839.4	100.0

Coefficient of Utilization



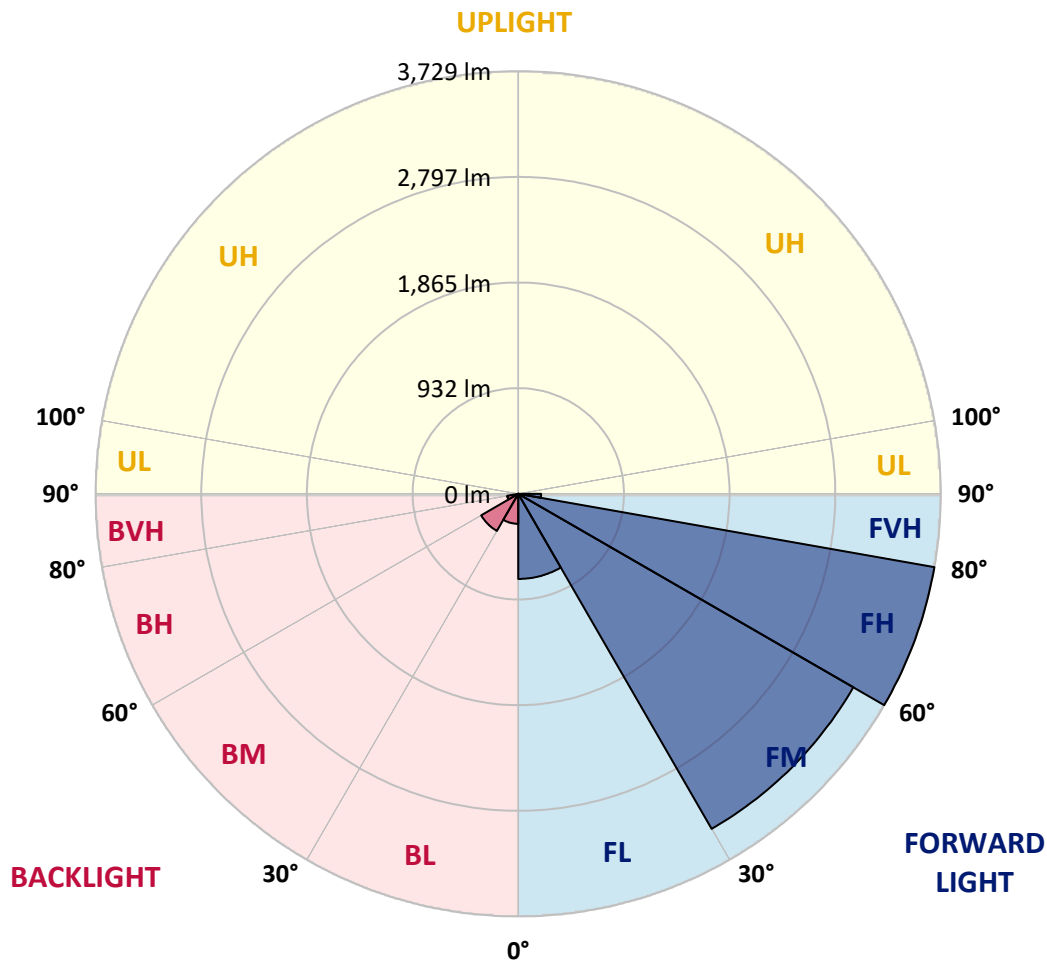
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	751.1	8.5			
FM (30°-60°)	3414.2	38.6			
FH (60°-80°)	3729.1	42.2			G2/5000
FVH (80°-90°)	201.2	2.3			G2/225
BL (0°-30°)	264.9	3.0	B1/500		
BM (30°-60°)	377.7	4.3	B1/1000		
BH (60°-80°)	99.4	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°	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6
2.5°	1725.4	1725.8	1721.7	1715.2	1706.7	1702.3	1695.0	1683.2	1670.7	1648.3	1624.1
5°	1760.6	1760.6	1755.5	1746.7	1733.1	1729.0	1715.2	1696.4	1670.7	1634.4	1593.6
7.5°	1757.0	1757.7	1750.8	1741.5	1727.9	1724.3	1707.4	1686.5	1654.5	1610.5	1558.4
10°	1737.9	1739.8	1734.2	1729.8	1717.3	1713.3	1697.5	1676.6	1644.6	1597.6	1537.8
12.5°	1718.4	1720.3	1722.1	1726.2	1718.4	1716.9	1704.5	1686.8	1656.4	1607.6	1540.0
15°	1705.9	1709.6	1722.8	1738.6	1740.4	1739.0	1730.9	1714.4	1683.6	1632.9	1555.8
17.5°	1705.9	1711.8	1739.4	1769.5	1780.1	1781.2	1774.2	1751.1	1714.4	1660.0	1570.5
20°	1720.3	1728.3	1771.2	1813.9	1831.5	1831.5	1817.9	1785.6	1742.6	1684.6	1580.4
22.5°	1757.0	1767.6	1821.5	1870.7	1889.5	1885.5	1867.1	1820.2	1772.0	1712.6	1592.9
25°	1829.3	1837.4	1893.6	1943.1	1954.5	1945.3	1922.2	1862.0	1809.4	1750.4	1615.7
27.5°	1922.5	1923.6	1981.7	2023.5	2016.5	2010.3	1981.3	1914.4	1863.5	1804.3	1654.9
30°	2025.0	2025.0	2076.0	2107.9	2086.7	2081.4	2052.5	1978.0	1932.4	1877.7	1710.7
32.5°	2124.1	2128.5	2169.9	2190.2	2166.3	2161.2	2132.9	2058.3	2024.3	1989.7	1797.7
35°	2219.9	2223.2	2262.4	2273.5	2250.7	2252.2	2232.0	2168.8	2156.0	2151.6	1928.8
37.5°	2312.8	2313.5	2353.6	2360.4	2349.1	2361.6	2363.4	2307.6	2331.5	2367.1	2113.4
40°	2397.6	2398.3	2438.0	2455.9	2475.4	2491.5	2505.9	2476.1	2555.0	2637.7	2333.3
42.5°	2465.5	2473.2	2523.5	2557.7	2609.0	2639.8	2678.8	2677.3	2821.2	2945.3	2599.1
45°	2525.3	2538.6	2608.6	2668.5	2756.6	2805.8	2866.7	2914.4	3120.8	3287.8	2868.2
47.5°	2604.2	2616.7	2696.7	2794.7	2912.3	2976.9	3077.8	3181.0	3450.1	3624.1	3131.0
50°	2715.5	2710.0	2788.9	2929.5	3080.3	3165.2	3309.1	3463.7	3776.8	3917.1	3285.6
52.5°	2834.0	2831.8	2890.2	3076.0	3278.6	3377.7	3567.9	3755.9	4089.2	4118.9	3356.5
55°	2980.9	2965.1	3014.3	3243.0	3514.0	3620.4	3844.3	4045.2	4338.1	4232.8	3392.0
57.5°	3134.8	3108.7	3155.6	3429.1	3779.4	3905.2	4150.5	4327.0	4503.7	4310.6	3391.7
60°	3293.7	3262.8	3318.6	3661.9	4109.1	4254.8	4482.3	4517.6	4658.2	4349.9	3366.7
62.5°	3426.6	3408.3	3491.2	3910.8	4477.2	4620.4	4733.1	4690.9	4788.5	4380.3	3308.4
65°	3567.2	3568.3	3702.2	4201.2	4868.5	4965.1	4974.7	4915.6	4897.6	4374.1	3110.9
67.5°	3757.3	3774.9	3998.5	4595.4	5249.3	5323.8	5323.0	5158.9	4977.3	4125.9	2672.9
70°	3958.5	4000.0	4339.9	5046.6	5664.8	5740.5	5701.5	5313.8	4686.5	3336.2	1891.7
72.5°	3924.7	3996.7	4529.7	5331.2	5963.3	6020.9	5768.0	4933.2	3704.1	1939.0	805.4
75°	3027.9	3111.2	4153.4	5049.2	5650.1	5598.4	4955.9	3838.8	2024.3	541.1	181.4
77.5°	1599.5	1643.9	2743.8	3846.5	4405.7	4297.3	3491.2	2129.6	617.2	134.0	81.5
80°	837.7	848.0	1195.6	2182.4	2719.2	2719.9	2069.0	935.4	254.4	68.7	54.7
82.5°	448.6	457.4	631.8	1008.4	1424.7	1291.5	792.2	514.7	147.9	38.9	52.5
85°	108.0	109.7	358.3	460.7	560.2	400.1	235.3	432.1	40.1	22.7	42.6
87.5°	41.5	42.2	132.9	199.4	142.8	92.5	110.1	161.2	5.1	8.8	6.6
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°	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6
2.5°	1609.4	1599.8	1576.4	1546.6	1520.2	1501.1	1472.5	1453.8	1441.3	1440.9	1436.1
5°	1568.6	1549.2	1498.5	1438.3	1383.6	1334.4	1276.4	1230.6	1196.4	1190.9	1179.2
7.5°	1524.9	1493.0	1415.2	1321.2	1229.5	1136.2	1027.9	960.7	903.0	875.6	872.6
10°	1498.1	1453.4	1342.9	1207.0	1063.2	911.5	769.8	671.8	600.9	580.7	565.7
12.5°	1492.6	1433.6	1287.1	1099.9	894.3	693.8	537.0	432.8	376.3	358.3	353.5
15°	1498.1	1424.3	1240.1	993.8	723.2	492.3	360.5	300.0	278.6	273.5	273.1
17.5°	1501.5	1413.3	1186.9	875.9	557.3	351.7	276.0	258.4	255.2	254.8	255.5
20°	1501.1	1396.5	1123.4	744.5	414.4	276.4	249.7	245.9	245.2	245.6	245.2
22.5°	1498.5	1376.6	1053.6	609.0	313.2	247.0	238.3	236.1	235.7	235.7	235.7
25°	1503.3	1360.9	976.9	479.5	258.0	233.4	227.9	226.2	225.8	225.8	225.1
27.5°	1520.6	1352.0	892.8	369.0	233.1	221.3	217.0	216.6	215.5	215.1	215.8
30°	1548.4	1352.0	800.7	287.1	218.1	208.9	205.6	204.8	204.5	204.1	204.5
32.5°	1597.6	1362.3	700.1	238.7	203.7	195.0	192.7	193.9	192.7	192.7	192.7
35°	1686.5	1393.1	594.7	208.1	188.7	181.4	179.1	180.6	179.9	179.9	179.5
37.5°	1816.1	1450.4	488.6	189.8	175.5	167.8	164.8	167.0	166.3	166.3	165.9
40°	1973.9	1533.8	387.7	175.9	162.6	154.5	152.0	153.1	151.3	151.3	152.0
42.5°	2168.8	1639.5	299.6	162.3	149.8	142.1	140.6	139.5	136.2	134.3	134.7
45°	2385.4	1749.6	233.4	149.0	137.7	131.4	129.2	126.3	120.8	117.1	117.5
47.5°	2578.9	1834.4	189.8	136.2	126.7	121.8	118.6	113.1	105.0	100.6	101.0
50°	2680.6	1847.3	161.5	123.3	116.4	111.6	106.8	98.4	88.9	84.0	83.7
52.5°	2706.7	1787.1	140.6	111.6	106.1	100.6	94.4	83.0	72.3	67.2	66.4
55°	2716.2	1695.3	121.8	100.6	95.1	88.9	80.8	67.9	58.0	52.8	52.5
57.5°	2684.6	1558.4	107.2	90.6	84.0	76.4	66.4	54.3	44.8	40.7	40.7
60°	2614.6	1373.0	95.9	80.0	72.7	63.9	53.6	42.2	33.4	30.1	30.1
62.5°	2474.7	1132.9	85.1	69.0	62.0	52.8	43.3	32.0	23.5	21.7	22.0
65°	2210.7	859.4	74.5	59.1	52.8	43.7	33.8	22.7	15.7	15.7	16.5
67.5°	1802.8	596.9	63.5	50.3	45.6	35.6	25.7	15.7	11.0	12.5	14.0
70°	1193.5	334.8	54.3	41.5	38.9	28.2	19.1	10.6	8.8	11.7	14.3
72.5°	450.4	130.3	45.6	33.4	33.8	21.7	13.6	8.1	8.1	12.9	16.9
75°	125.6	63.9	32.7	24.6	26.5	15.7	9.9	7.0	7.7	14.7	19.8
77.5°	73.8	46.9	21.3	14.3	18.0	11.0	6.6	5.5	6.6	12.5	19.1
80°	59.4	25.0	12.5	7.4	9.9	6.2	4.4	3.3	1.9	4.8	9.9
82.5°	59.4	15.1	5.9	5.1	5.1	3.3	2.2	1.5	0.4	0.0	2.6
85°	40.1	6.2	3.6	3.3	2.6	1.1	0.7	0.4	0.0	0.0	0.0
87.5°	6.6	2.6	1.5	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)