

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: P382888

Luminaire Tested: **GLEON-SA2C-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382888  
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-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 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: 10941 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

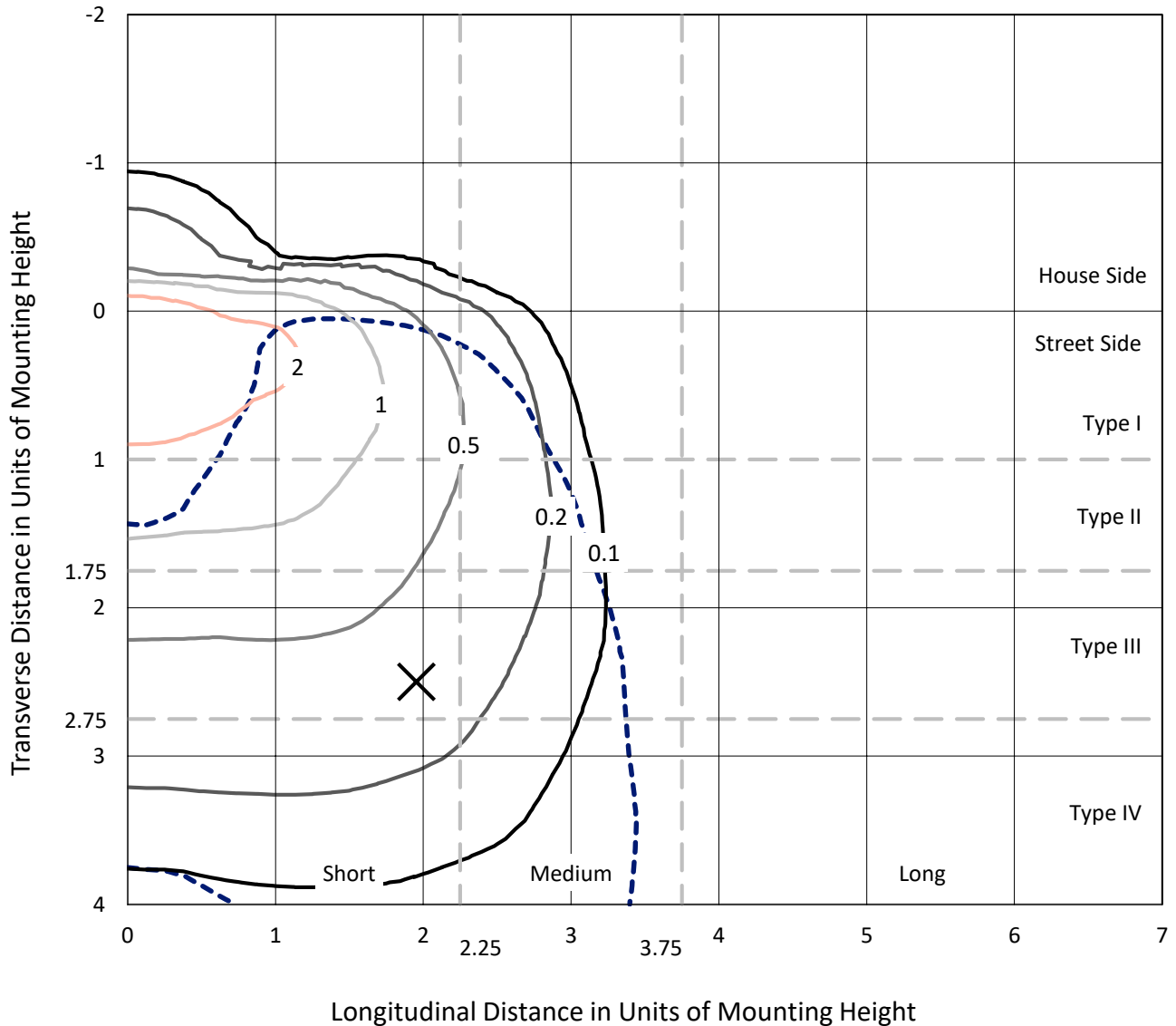
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

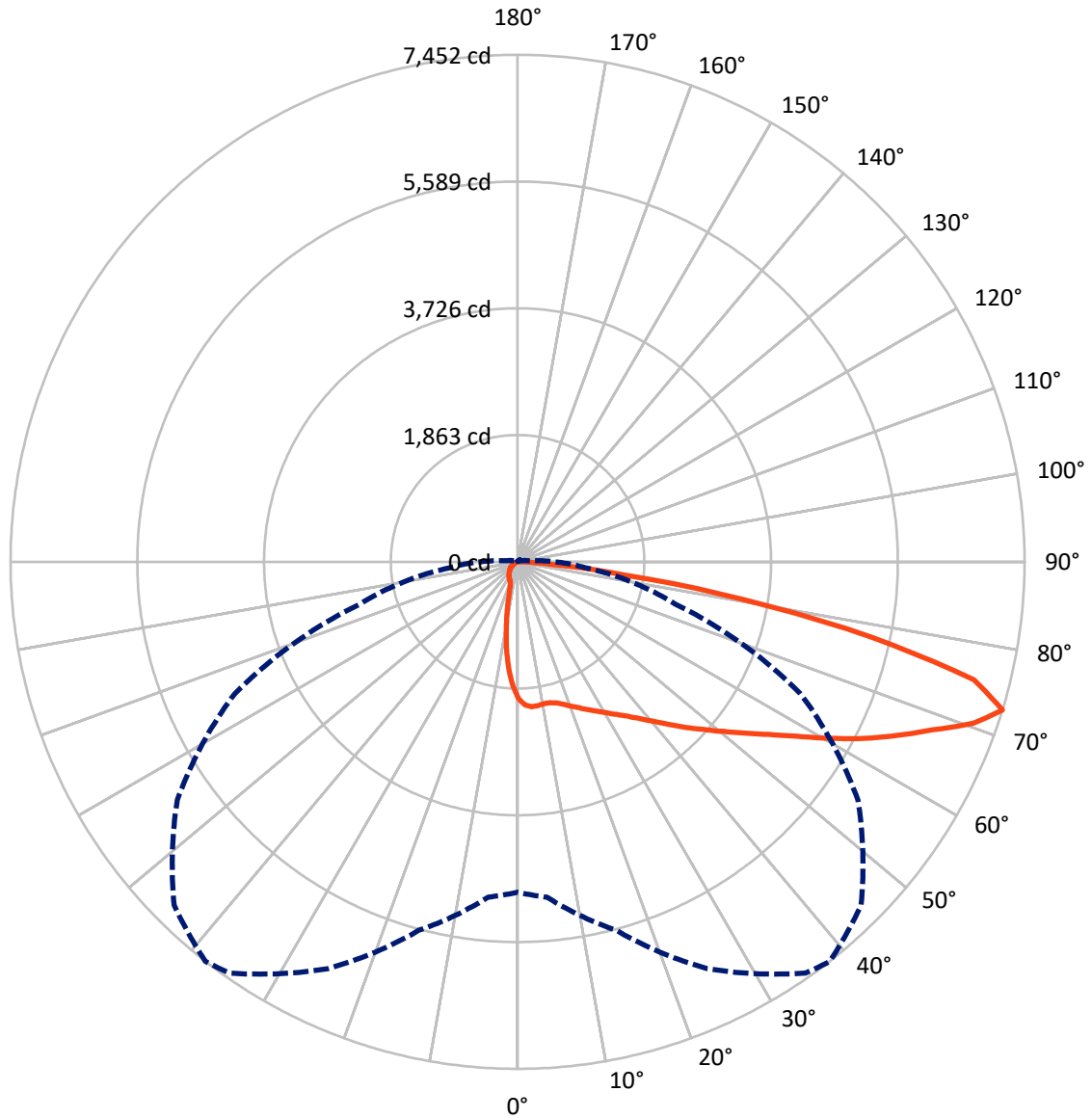
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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
<b>House Side</b>	Lumens	920.7	0.0	920.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	10020.3	0.0	10020.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	10941.0	0.0	10941.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.5	1.6
10°-20°	419.3	3.8
20°-30°	666.8	6.1
30°-40°	1002.5	9.2
40°-50°	1529.4	14.0
50°-60°	2161.6	19.8
60°-70°	2711.3	24.8
70°-80°	2027.3	18.5
80°-90°	251.4	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°	10941.0	100.0
0°-180°	10941.0	100.0

**Coefficient of Utilization**



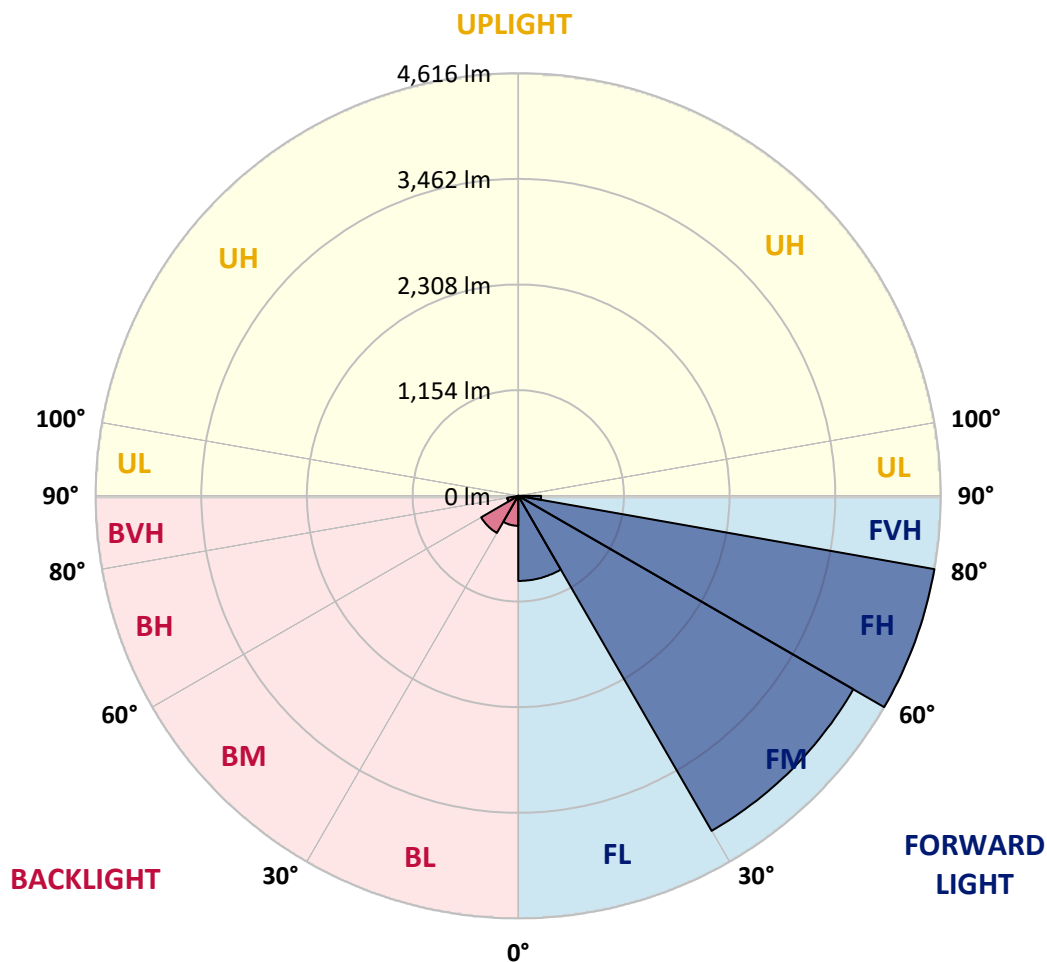
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.7	8.5			
FM (30°-60°)	4225.9	38.6			
FH (60°-80°)	4615.6	42.2			G2/5000
FVH (80°-90°)	249.0	2.3			G3/500
BL (0°-30°)	327.8	3.0	B1/500		
BM (30°-60°)	467.6	4.3	B1/1000		
BH (60°-80°)	123.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0
2.5°	2135.6	2136.0	2131.1	2122.9	2112.5	2107.0	2097.9	2083.3	2067.9	2040.2	2010.2
5°	2179.3	2179.3	2172.8	2161.9	2145.2	2140.1	2122.9	2099.7	2067.9	2022.9	1972.5
7.5°	2174.7	2175.6	2167.0	2155.6	2138.8	2134.3	2113.3	2087.4	2047.9	1993.4	1928.9
10°	2151.0	2153.4	2146.5	2141.1	2125.6	2120.6	2101.1	2075.2	2035.6	1977.5	1903.4
12.5°	2127.0	2129.2	2131.6	2136.5	2127.0	2125.1	2109.7	2087.9	2050.1	1989.8	1906.1
15°	2111.5	2116.1	2132.4	2152.0	2154.2	2152.4	2142.5	2122.0	2083.8	2021.1	1925.7
17.5°	2111.5	2118.8	2152.9	2190.2	2203.3	2204.7	2196.0	2167.4	2122.0	2054.7	1943.9
20°	2129.2	2139.2	2192.4	2245.1	2266.9	2266.9	2250.2	2210.1	2157.0	2085.2	1956.2
22.5°	2174.7	2187.8	2254.6	2315.5	2338.7	2333.7	2311.0	2252.9	2193.3	2119.7	1971.6
25°	2264.2	2274.2	2343.7	2405.1	2419.1	2407.8	2379.2	2304.6	2239.6	2166.5	1999.8
27.5°	2379.6	2380.9	2452.8	2504.6	2495.9	2488.3	2452.3	2369.6	2306.4	2233.3	2048.4
30°	2506.4	2506.4	2569.6	2609.1	2582.7	2576.4	2540.4	2448.2	2391.8	2324.2	2117.4
32.5°	2629.1	2634.5	2685.8	2710.9	2681.4	2674.9	2640.0	2547.8	2505.5	2462.7	2225.1
35°	2747.7	2751.8	2800.4	2814.0	2785.8	2787.7	2762.7	2684.5	2668.6	2663.1	2387.4
37.5°	2862.6	2863.6	2913.0	2921.7	2907.6	2923.1	2925.3	2856.3	2885.8	2929.9	2615.9
40°	2967.6	2968.5	3017.6	3039.8	3064.0	3083.9	3101.7	3064.8	3162.5	3264.8	2888.1
42.5°	3051.7	3061.2	3123.5	3165.7	3229.3	3267.5	3315.7	3313.8	3491.9	3645.5	3217.0
45°	3125.7	3142.1	3228.8	3302.9	3412.0	3472.9	3548.3	3607.3	3862.8	4069.5	3550.1
47.5°	3223.4	3238.9	3337.9	3459.2	3604.6	3684.6	3809.6	3937.3	4270.3	4485.7	3875.4
50°	3361.1	3354.3	3451.9	3626.0	3812.7	3917.7	4095.8	4287.2	4674.7	4848.3	4066.8
52.5°	3507.8	3505.1	3577.4	3807.3	4058.1	4180.8	4416.2	4648.8	5061.4	5098.2	4154.4
55°	3689.6	3670.1	3730.9	4014.0	4349.4	4481.1	4758.3	5006.9	5369.4	5239.0	4198.5
57.5°	3880.0	3847.8	3905.9	4244.4	4677.9	4833.7	5137.3	5355.8	5574.4	5335.4	4198.1
60°	4076.7	4038.5	4107.7	4532.5	5086.0	5266.3	5548.0	5591.7	5765.7	5384.0	4167.2
62.5°	4241.2	4218.5	4321.2	4840.6	5541.7	5718.9	5858.4	5806.1	5927.0	5421.7	4094.9
65°	4415.3	4416.7	4582.5	5200.0	6026.1	6145.6	6157.3	6084.2	6062.0	5414.0	3850.5
67.5°	4650.7	4672.5	4949.1	5688.0	6497.3	6589.5	6588.6	6385.5	6160.6	5106.8	3308.4
70°	4899.7	4951.0	5371.8	6246.4	7011.7	7105.2	7057.0	6577.2	5800.7	4129.5	2341.4
72.5°	4857.8	4946.9	5606.7	6598.6	7381.0	7452.4	7139.3	6106.0	4584.7	2400.0	996.9
75°	3747.8	3850.9	5140.9	6249.7	6993.4	6929.4	6134.2	4751.5	2505.5	669.8	224.5
77.5°	1979.7	2034.8	3396.0	4761.0	5453.1	5319.0	4321.2	2635.9	763.8	165.8	100.9
80°	1036.9	1049.7	1479.9	2701.3	3365.6	3366.5	2560.9	1157.8	314.9	85.0	67.7
82.5°	555.3	566.2	782.0	1248.2	1763.5	1598.5	980.5	637.1	183.1	48.2	65.0
85°	133.6	135.8	443.5	570.3	693.4	495.3	291.3	534.8	49.6	28.1	52.7
87.5°	51.3	52.3	164.5	246.8	176.7	114.5	136.3	199.4	6.3	10.9	8.2
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°	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0	2012.0
2.5°	1992.0	1980.2	1951.1	1914.3	1881.6	1858.0	1822.6	1799.4	1783.9	1783.4	1777.6
5°	1941.6	1917.5	1854.8	1780.3	1712.6	1651.7	1579.9	1523.1	1480.9	1474.0	1459.5
7.5°	1887.5	1848.0	1751.7	1635.3	1521.8	1406.4	1272.3	1189.1	1117.8	1083.7	1080.0
10°	1854.3	1798.9	1662.2	1494.0	1315.9	1128.2	952.9	831.5	743.8	718.9	700.2
12.5°	1847.5	1774.4	1593.0	1361.4	1106.9	858.8	664.8	535.7	465.8	443.5	437.5
15°	1854.3	1763.0	1534.9	1230.0	895.1	609.3	446.2	371.2	344.9	338.5	338.1
17.5°	1858.4	1749.4	1469.1	1084.1	689.7	435.3	341.7	319.9	315.8	315.3	316.3
20°	1858.0	1728.5	1390.4	921.5	513.0	342.2	309.0	304.4	303.5	304.0	303.5
22.5°	1854.8	1704.0	1304.1	753.8	387.6	305.8	294.9	292.1	291.8	291.8	291.8
25°	1860.7	1684.4	1209.1	593.4	319.4	289.0	282.2	279.9	279.5	279.5	278.5
27.5°	1882.1	1673.5	1105.1	456.6	288.5	274.0	268.6	268.1	266.7	266.2	267.2
30°	1916.6	1673.5	991.0	355.3	269.9	258.5	254.5	253.6	253.1	252.6	253.1
32.5°	1977.5	1686.2	866.5	295.4	252.2	241.3	238.6	239.9	238.6	238.6	238.6
35°	2087.4	1724.4	736.1	257.7	233.5	224.5	221.7	223.6	222.6	222.6	222.2
37.5°	2247.8	1795.3	604.8	234.9	217.2	207.6	204.0	206.7	205.9	205.9	205.4
40°	2443.3	1898.4	479.8	217.6	201.3	191.3	188.1	189.5	187.2	187.2	188.1
42.5°	2684.5	2029.3	370.8	200.8	185.4	175.9	174.0	172.7	168.6	166.3	166.7
45°	2952.6	2165.6	289.0	184.4	170.4	162.6	159.9	156.3	149.5	144.9	145.4
47.5°	3192.0	2270.6	234.9	168.6	156.8	150.8	146.8	139.9	130.0	124.5	124.9
50°	3317.9	2286.5	199.9	152.7	144.0	138.1	132.2	121.8	109.9	104.1	103.6
52.5°	3350.2	2212.0	174.0	138.1	131.3	124.5	116.8	102.7	89.5	83.2	82.3
55°	3362.0	2098.3	150.8	124.5	117.7	109.9	100.0	84.0	71.8	65.4	65.0
57.5°	3322.9	1928.9	132.7	112.3	104.1	94.6	82.3	67.3	55.4	50.4	50.4
60°	3236.1	1699.4	118.6	99.0	90.0	79.1	66.3	52.3	41.4	37.3	37.3
62.5°	3063.0	1402.3	105.5	85.4	76.8	65.4	53.7	39.5	29.1	26.8	27.3
65°	2736.3	1063.7	92.2	73.1	65.4	54.0	41.8	28.1	19.6	19.6	20.4
67.5°	2231.5	738.8	78.6	62.2	56.4	44.1	31.8	19.6	13.6	15.5	17.2
70°	1477.2	414.4	67.3	51.3	48.2	35.0	23.7	13.1	10.9	14.5	17.7
72.5°	557.5	161.3	56.4	41.4	41.8	26.8	16.8	10.0	10.0	15.9	20.9
75°	155.4	79.1	40.4	30.5	32.7	19.6	12.3	8.7	9.5	18.2	24.5
77.5°	91.3	58.1	26.4	17.7	22.3	13.6	8.2	6.8	8.2	15.5	23.7
80°	73.6	30.9	15.5	9.1	12.3	7.7	5.5	4.1	2.2	5.9	12.3
82.5°	73.6	18.6	7.3	6.3	6.3	4.1	2.7	1.9	0.5	0.0	3.2
85°	49.6	7.7	4.6	4.1	3.2	1.4	0.9	0.5	0.0	0.0	0.0
87.5°	8.2	3.2	1.9	0.9	0.5	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)