

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: P383212

Luminaire Tested: **GLEON-SA5B-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19284.9 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

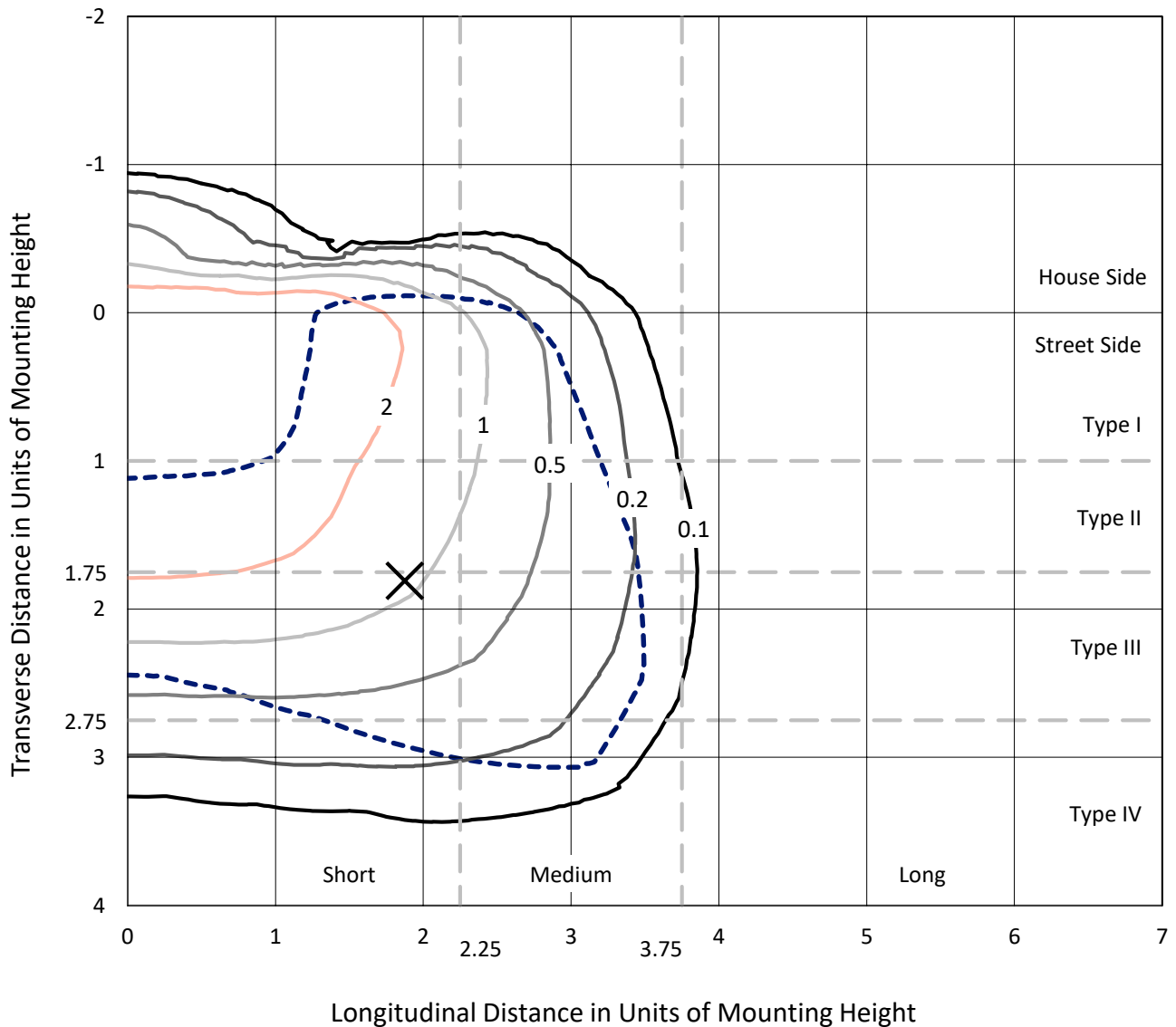
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

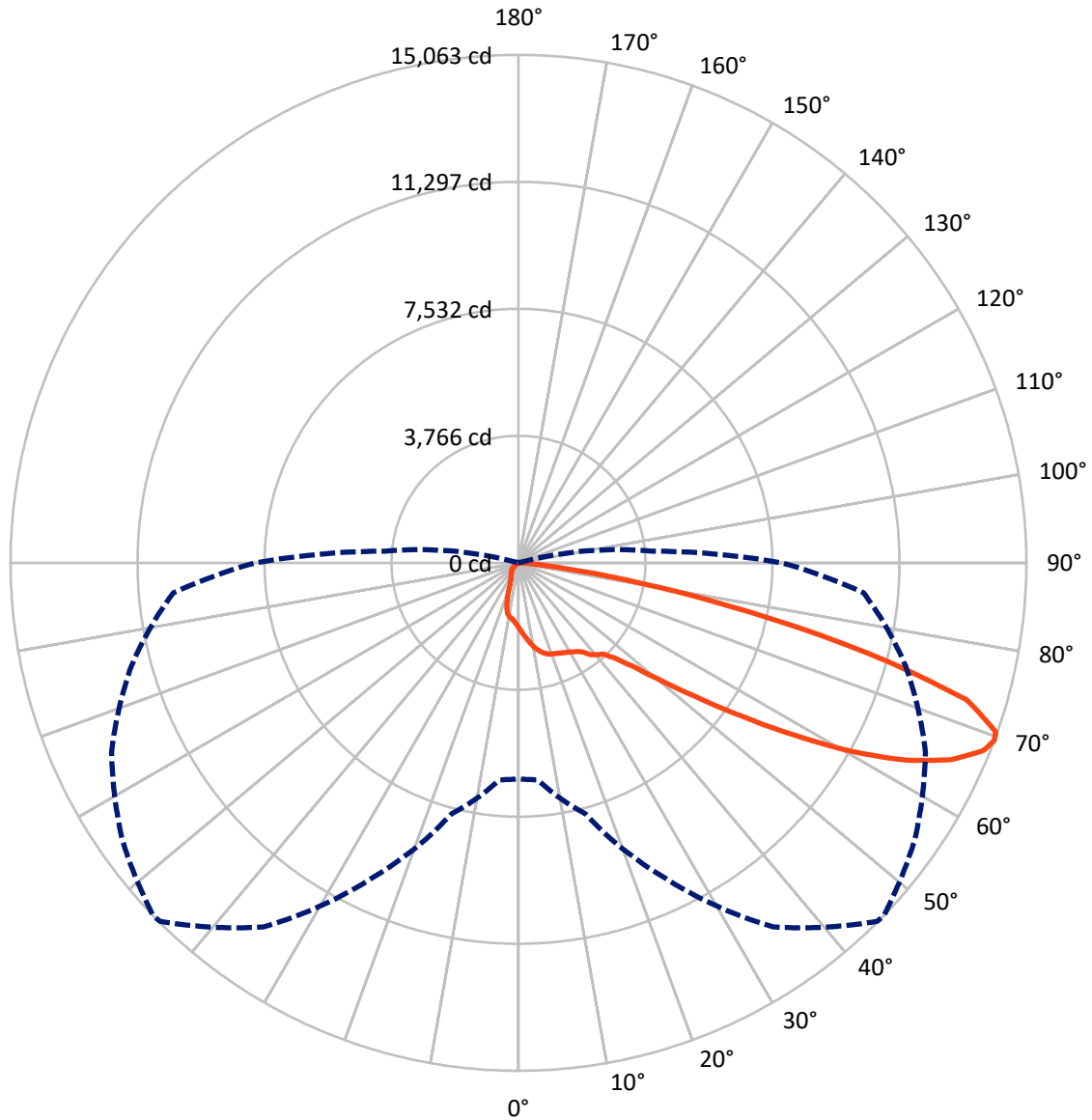
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1979.1	0.0	1979.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	17305.8	0.0	17305.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	19284.9	0.0	19284.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	1.0
10°-20°	583.5	3.0
20°-30°	917.6	4.8
30°-40°	1315.9	6.8
40°-50°	2274.3	11.8
50°-60°	4493.1	23.3
60°-70°	6279.5	32.6
70°-80°	3033.7	15.7
80°-90°	195.0	1.0
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°	19284.9	100.0
0°-180°	19284.9	100.0

Coefficient of Utilization



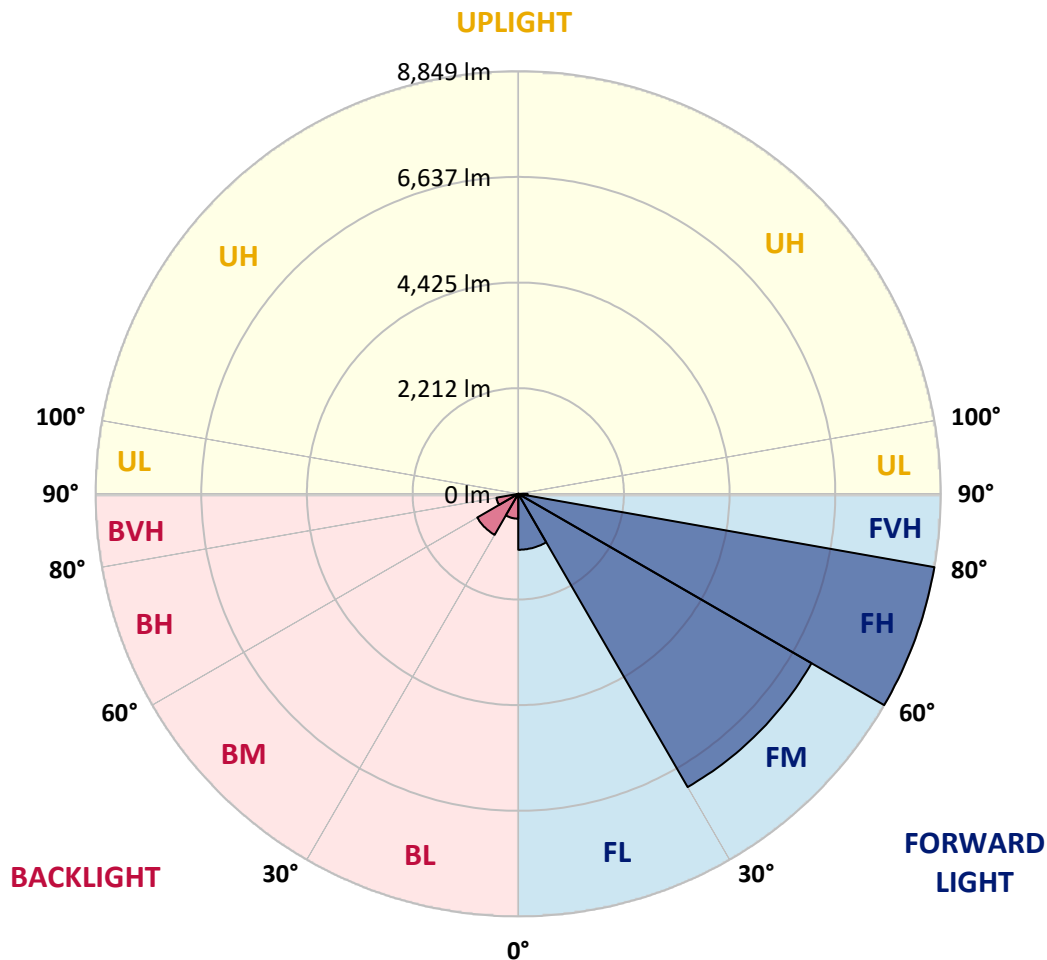
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1171.8	6.1			
FM (30°-60°)	7091.5	36.8			
FH (60°-80°)	8849.1	45.9			G4/12000
FVH (80°-90°)	193.3	1.0			G2/225
BL (0°-30°)	521.6	2.7	B2/1000		
BM (30°-60°)	991.8	5.1	B1/1000		
BH (60°-80°)	464.1	2.4	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3
2.5°	2146.6	2143.9	2131.2	2125.8	2095.1	2077.0	2069.7	2047.1	2014.6	1982.0	1945.8
5°	2390.7	2389.8	2366.3	2343.7	2285.8	2231.5	2221.6	2169.2	2095.9	2027.2	1958.5
7.5°	2640.3	2628.5	2605.0	2561.6	2477.5	2390.7	2382.5	2308.5	2204.4	2105.0	2006.5
10°	2851.8	2844.6	2813.8	2747.9	2649.3	2550.8	2540.8	2449.5	2331.9	2209.9	2084.2
12.5°	3016.4	3010.9	2970.3	2888.0	2783.1	2681.0	2667.4	2586.0	2460.3	2323.8	2175.5
15°	3116.8	3114.1	3064.3	2976.7	2873.5	2785.0	2773.2	2701.8	2585.1	2442.2	2274.9
17.5°	3140.2	3141.2	3089.7	3001.1	2916.0	2852.8	2843.7	2789.4	2691.8	2549.8	2374.4
20°	3087.8	3098.7	3052.6	2975.7	2923.3	2889.8	2882.6	2850.1	2767.7	2634.0	2454.0
22.5°	3013.7	3019.1	2987.5	2936.0	2914.3	2920.6	2917.0	2898.9	2829.2	2706.2	2532.7
25°	2968.5	2968.5	2949.5	2906.1	2920.6	2959.4	2960.4	2956.7	2901.6	2794.9	2628.5
27.5°	2966.7	2961.3	2939.6	2907.0	2946.8	3006.5	3010.1	3034.5	3000.1	2902.5	2747.9
30°	3039.0	3032.7	2986.5	2944.1	2994.7	3058.9	3068.0	3121.3	3104.1	3019.1	2880.8
32.5°	3208.1	3185.5	3083.3	3013.7	3051.7	3128.5	3140.2	3225.3	3252.4	3162.9	3009.2
35°	3439.6	3368.1	3220.7	3145.7	3149.3	3229.8	3240.7	3365.4	3445.9	3294.9	3108.7
37.5°	3758.8	3723.5	3483.9	3283.1	3299.4	3421.5	3453.2	3588.8	3566.2	3367.3	3221.7
40°	4458.6	4403.4	4148.5	3668.3	3443.2	3577.0	3586.9	3659.3	3661.1	3530.9	3456.8
42.5°	5411.6	5389.0	5120.4	4367.3	3726.2	3681.0	3699.1	3821.1	3957.7	3876.3	3872.7
45°	6466.8	6455.1	6170.3	5295.0	4298.5	4021.9	4044.5	4208.2	4469.5	4487.5	4602.4
47.5°	7315.9	7310.4	7146.8	6330.3	5174.7	4599.7	4606.9	4780.5	5239.9	5466.8	5650.3
50°	8089.8	8116.1	7986.8	7450.6	6368.2	5504.8	5487.6	5603.4	6341.1	6712.7	6940.7
52.5°	9165.9	9202.9	8840.4	8495.9	7620.6	6627.8	6614.2	6735.4	7664.9	7943.4	7984.1
55°	10116.1	10052.9	9766.3	9666.8	9147.8	8014.8	8011.2	8117.9	8945.3	9063.7	9138.8
57.5°	10535.7	10511.3	10649.6	10877.5	10747.4	9654.1	9646.0	9564.7	10090.9	10103.6	10334.1
60°	10800.6	10830.5	11254.6	11957.2	12281.7	11418.3	11365.8	10869.4	11184.9	11157.0	11403.7
62.5°	10601.8	10660.5	11423.7	12594.6	13430.1	12958.1	12884.0	12064.8	12119.9	12023.1	12252.8
65°	9545.7	9637.0	10887.5	12474.4	13999.8	14161.6	14086.5	13119.9	12862.3	12703.1	12575.6
67.5°	7750.8	7805.1	9110.7	11428.2	13742.9	14879.5	14864.1	14044.9	13422.9	12588.3	11599.1
69°	6405.3	6458.7	7715.5	10326.9	13177.8	15033.2	15063.0	14341.5	13316.2	11890.2	10277.1
70°	5425.2	5482.2	6653.1	9382.9	12522.2	14961.8	15015.1	14313.5	13010.6	11081.9	9117.1
72.5°	2845.5	2894.3	4096.0	6464.1	10208.5	13738.4	13900.3	13103.7	11028.5	8048.3	5390.9
75°	894.3	922.3	1599.6	3379.0	6989.5	10682.2	10719.3	10279.0	7831.2	4427.0	2245.1
77.5°	340.9	332.7	532.6	1245.1	3533.6	6726.3	6953.3	6423.4	4109.6	1565.2	518.1
80°	183.5	184.4	276.7	515.4	1511.8	3456.8	3648.4	3113.1	1460.3	488.2	119.3
82.5°	79.6	83.2	155.6	273.0	694.5	1274.9	1370.8	1141.1	557.9	328.2	44.3
85°	17.1	19.0	75.1	148.3	283.0	358.1	375.2	369.8	355.4	255.0	17.1
87.5°	0.0	0.0	33.4	53.4	71.4	81.4	71.4	93.2	196.2	171.8	9.0
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°	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3	1932.3
2.5°	1934.1	1917.8	1889.7	1859.0	1837.3	1814.7	1796.7	1788.5	1779.4	1773.1	1781.3
5°	1930.4	1898.8	1844.6	1792.1	1754.1	1723.4	1698.1	1688.2	1678.2	1670.9	1670.1
7.5°	1962.1	1917.8	1834.6	1757.7	1699.0	1657.4	1623.0	1608.6	1596.9	1591.4	1586.9
10°	2022.7	1965.8	1854.5	1754.1	1678.2	1607.7	1533.5	1476.6	1439.5	1422.3	1416.0
12.5°	2101.4	2029.9	1892.5	1773.1	1662.8	1527.2	1369.8	1234.2	1146.5	1117.6	1100.4
15°	2193.6	2105.0	1942.2	1797.5	1606.7	1359.0	1092.2	915.1	833.6	817.4	799.3
17.5°	2282.2	2184.6	2001.9	1802.1	1483.8	1085.9	800.2	679.9	648.4	659.2	661.9
20°	2360.0	2263.2	2060.7	1762.3	1260.5	814.6	619.4	589.6	601.3	622.1	625.7
22.5°	2438.6	2339.2	2114.9	1657.4	974.8	618.5	557.9	565.2	576.9	597.7	601.3
25°	2534.5	2431.4	2165.6	1464.8	731.5	526.2	529.9	540.7	552.5	571.4	573.3
27.5°	2644.8	2548.1	2199.0	1214.4	542.5	483.8	495.5	511.8	523.5	541.6	545.2
30°	2791.3	2701.8	2209.9	954.8	454.8	445.7	451.2	471.1	488.2	504.5	507.2
32.5°	2928.7	2853.6	2173.7	720.6	421.3	410.5	410.5	422.3	442.1	457.5	461.1
35°	3055.3	3006.5	2058.0	527.2	396.0	377.9	368.9	368.9	381.6	394.2	397.9
37.5°	3222.6	3220.7	1870.8	420.4	371.6	350.8	331.8	317.4	312.8	315.6	317.4
40°	3509.2	3511.9	1626.7	377.1	350.8	322.8	293.9	267.6	243.2	235.1	234.2
42.5°	3956.7	3916.1	1370.8	356.2	332.7	293.9	250.5	215.2	177.2	165.4	164.6
45°	4667.5	4426.1	1099.5	337.2	313.7	261.3	207.1	159.1	128.4	119.3	119.3
47.5°	5702.7	5096.0	851.7	316.4	288.4	224.2	156.4	114.9	94.0	89.5	90.5
50°	6773.4	5752.5	652.8	290.3	257.7	185.4	115.7	83.2	71.4	71.4	72.4
52.5°	7722.8	6233.5	509.1	262.2	219.8	145.6	87.8	65.1	59.7	58.8	59.7
55°	8611.6	6543.7	389.7	229.6	174.5	108.5	66.9	53.4	49.7	47.9	47.0
57.5°	9468.8	6697.4	292.0	185.4	126.6	78.6	53.4	45.2	41.5	38.8	38.0
60°	10039.3	6572.6	200.7	136.6	87.8	57.0	44.3	38.8	34.4	31.7	30.7
62.5°	10361.2	6231.8	129.3	98.6	62.4	42.5	35.3	32.5	26.2	23.5	23.5
65°	10231.0	5669.3	90.5	70.5	45.2	31.7	26.2	26.2	19.0	15.4	14.4
67.5°	9066.4	4789.6	68.7	52.4	32.5	23.5	19.9	22.6	11.7	7.3	7.3
69°	7800.5	3969.4	58.8	43.4	27.1	19.0	17.1	20.8	8.1	5.4	4.6
70°	6779.7	3424.2	53.4	38.0	22.6	16.3	15.4	19.9	8.1	4.6	3.6
72.5°	4056.2	1909.7	40.7	27.1	14.4	12.7	12.7	22.6	8.1	4.6	3.6
75°	1639.3	672.8	29.8	19.0	10.8	10.8	15.4	29.0	7.3	3.6	2.7
77.5°	371.6	147.4	17.1	11.7	7.3	10.8	18.1	22.6	4.6	1.8	0.0
80°	90.5	36.1	10.8	7.3	4.6	8.1	13.6	12.7	0.9	0.0	0.0
82.5°	29.8	12.7	4.6	3.6	0.9	2.7	6.3	3.6	0.0	0.0	0.0
85°	12.7	7.3	1.8	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
87.5°	8.1	2.7	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)