

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: P382884

Luminaire Tested: **GLEON-SA2C-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11166.5 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

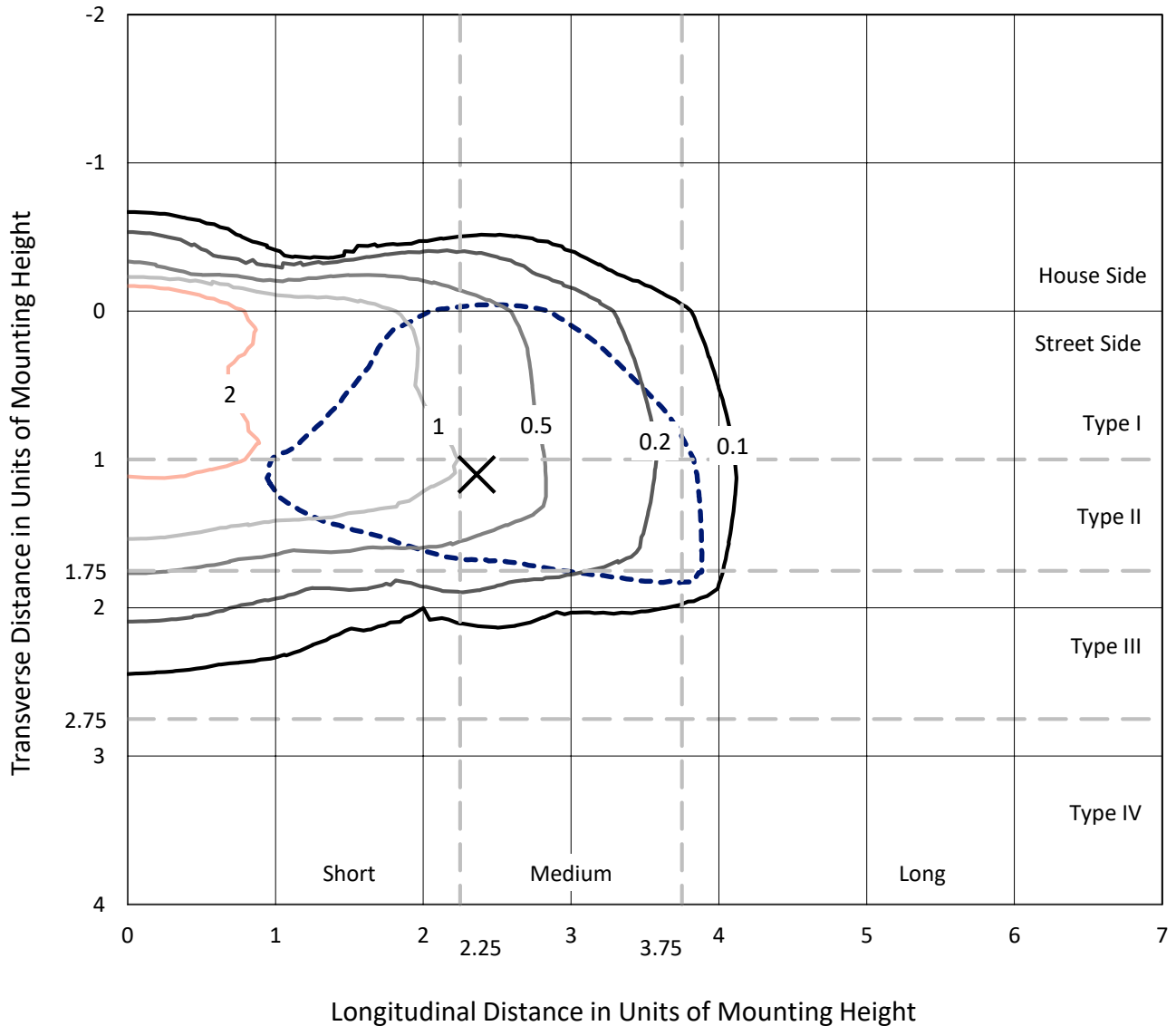
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

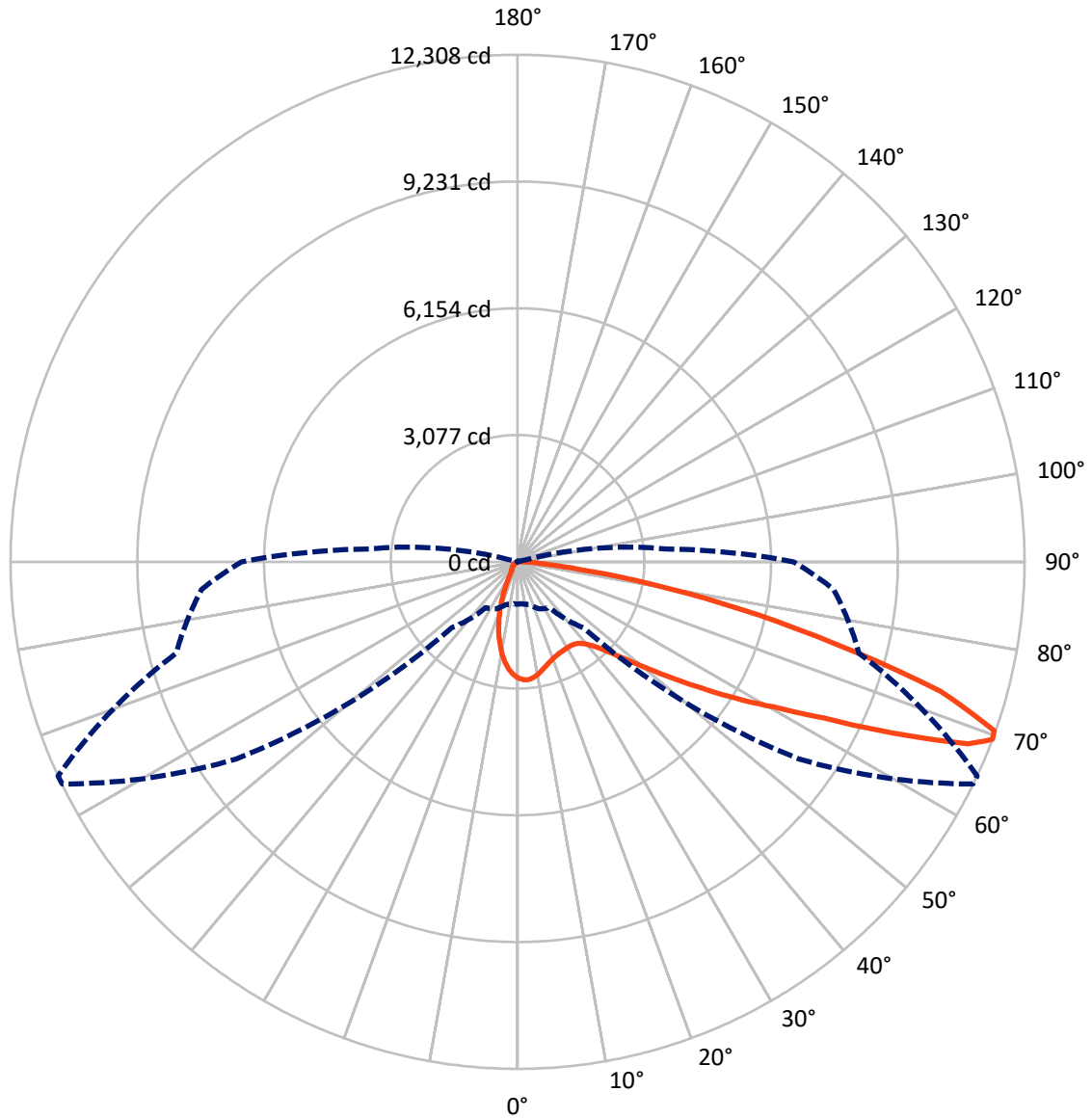
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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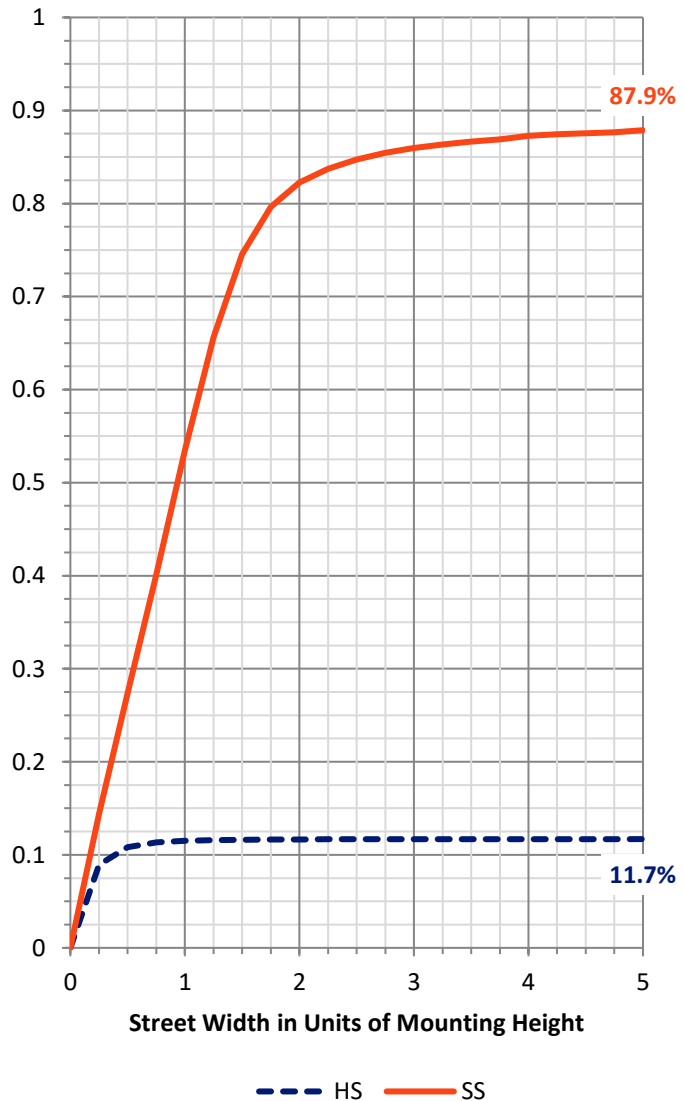
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1316.3	0.0	1316.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	9850.2	0.0	9850.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	11166.5	0.0	11166.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	2.1
10°-20°	516.5	4.6
20°-30°	715.4	6.4
30°-40°	997.5	8.9
40°-50°	1550.5	13.9
50°-60°	2489.1	22.3
60°-70°	2815.6	25.2
70°-80°	1653.6	14.8
80°-90°	192.4	1.7
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°	11166.5	100.0
0°-180°	11166.5	100.0

Coefficient of Utilization

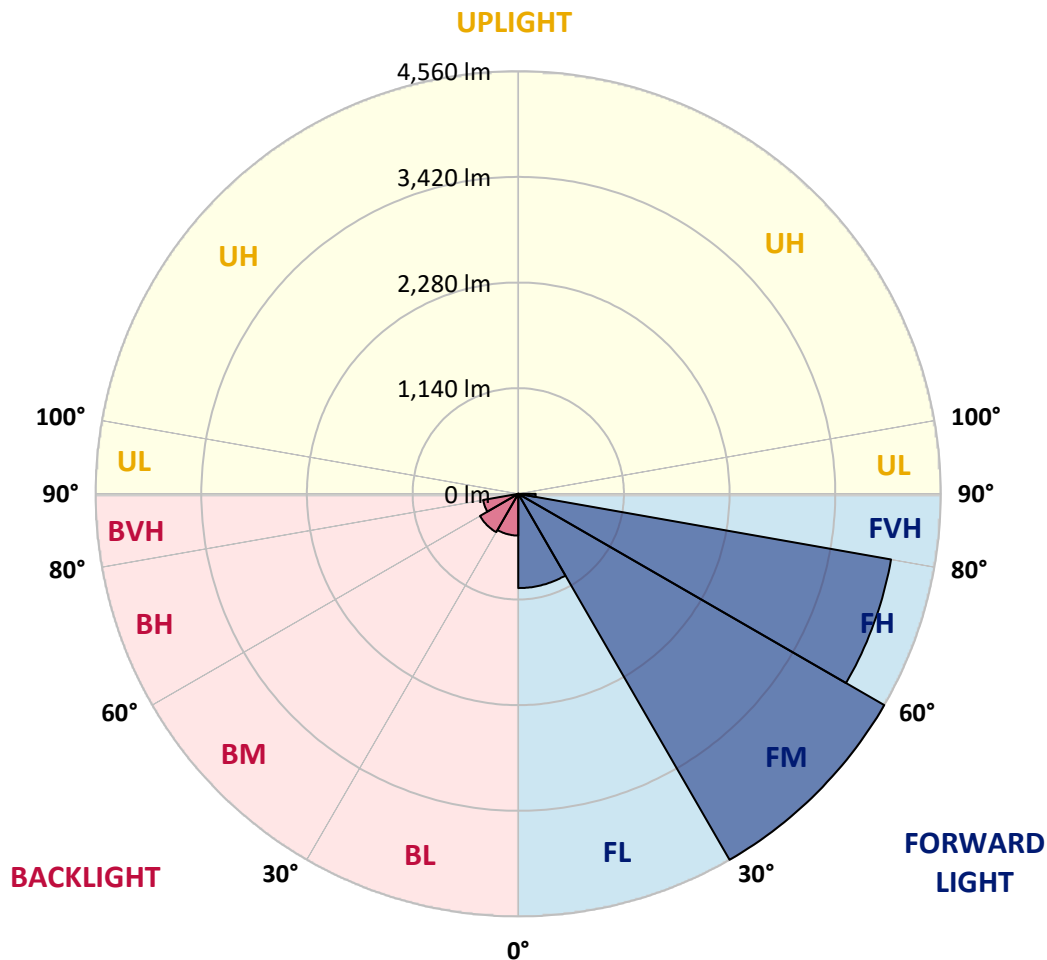


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1017.5	9.1			
FM (30°-60°)	4560.1	40.8			
FH (60°-80°)	4084.6	36.6			G2/5000
FVH (80°-90°)	188.0	1.7			G2/225
BL (0°-30°)	450.4	4.0	B1/500		
BM (30°-60°)	477.0	4.3	B1/1000		
BH (60°-80°)	384.6	3.4	B1/500		G1/500
BVH (80°-90°)	4.3	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°	55°	64°	65°	75°	85°
0°	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8
2.5°	2846.8	2839.7	2845.4	2857.7	2863.9	2863.9	2868.6	2862.9	2864.8	2851.1	2831.3
5°	2668.7	2657.8	2673.4	2707.9	2750.4	2786.8	2840.7	2869.1	2871.9	2872.3	2849.2
7.5°	2476.9	2466.9	2490.1	2530.7	2585.5	2653.1	2747.1	2829.4	2834.0	2878.5	2861.4
10°	2321.0	2313.9	2340.8	2384.2	2448.5	2524.1	2639.4	2753.7	2767.4	2865.7	2859.6
12.5°	2197.1	2191.5	2217.0	2267.1	2332.8	2416.3	2536.9	2669.6	2688.1	2836.9	2850.2
15°	2106.9	2105.9	2127.2	2175.4	2248.2	2326.2	2449.4	2591.7	2612.9	2805.7	2848.7
17.5°	2059.7	2061.0	2076.6	2117.8	2180.1	2257.6	2375.7	2526.0	2549.2	2777.9	2855.8
20°	2054.9	2056.3	2064.9	2088.0	2138.6	2207.0	2315.7	2470.7	2494.8	2757.0	2867.1
22.5°	2096.4	2095.5	2097.9	2095.5	2123.9	2175.9	2276.1	2428.2	2456.0	2743.3	2876.2
25°	2176.4	2174.9	2174.0	2156.5	2137.6	2165.5	2259.5	2404.1	2430.6	2733.4	2881.3
27.5°	2287.4	2286.5	2285.0	2256.2	2199.5	2182.1	2261.4	2395.1	2417.4	2725.4	2880.3
30°	2433.4	2440.0	2438.1	2398.0	2309.6	2232.5	2281.3	2390.4	2409.7	2709.8	2870.5
32.5°	2604.9	2618.1	2628.5	2585.5	2474.9	2332.8	2327.1	2395.6	2409.7	2697.9	2852.5
35°	2783.0	2800.0	2838.3	2823.2	2677.6	2483.5	2406.0	2426.8	2438.6	2704.6	2844.0
37.5°	2958.3	2978.6	3061.8	3105.8	2943.2	2682.9	2528.9	2503.8	2510.0	2744.8	2853.4
40°	3162.0	3192.7	3318.8	3389.7	3260.2	2949.8	2712.7	2636.1	2638.4	2833.1	2897.4
42.5°	3429.4	3461.1	3597.6	3708.7	3617.5	3287.2	2962.1	2838.3	2836.0	2998.5	3000.9
45°	3755.4	3788.5	3929.8	4053.2	4012.0	3687.0	3281.6	3133.6	3130.8	3259.3	3197.0
47.5°	4125.0	4157.6	4283.7	4410.8	4455.2	4153.8	3688.4	3536.7	3530.1	3621.8	3499.8
50°	4442.0	4463.2	4579.5	4750.5	4950.9	4727.4	4194.4	4048.4	4041.3	4103.2	3944.5
52.5°	4557.3	4569.6	4687.7	4927.2	5427.2	5504.1	4859.2	4671.2	4665.9	4692.9	4536.5
55°	4323.9	4346.0	4491.2	4846.5	5685.1	6382.1	5698.4	5442.3	5403.1	5344.9	5155.5
57.5°	3687.9	3723.3	3879.2	4351.7	5564.7	7078.6	6931.6	6314.5	6256.8	5901.5	5658.7
60°	2763.2	2806.7	2936.1	3446.0	4921.6	7326.6	8279.2	7286.5	7156.5	6344.8	6121.3
62.5°	1896.2	1917.9	2005.8	2337.9	3624.6	6920.3	9406.6	8588.2	8351.0	6826.8	6621.6
65°	1448.2	1455.8	1491.7	1606.1	2158.4	5621.3	9855.0	10305.7	10019.0	7403.2	7141.0
67.5°	1167.0	1160.9	1210.5	1374.0	1445.4	3429.4	9332.0	11930.7	11796.5	8173.9	7663.6
69°	1029.1	1020.6	1071.2	1261.1	1357.5	2267.1	8342.5	12299.7	12308.3	8580.7	7699.4
70°	926.1	931.7	981.9	1194.1	1327.7	1779.4	7397.5	12205.7	12272.8	8732.8	7484.0
72.5°	618.5	633.6	734.2	991.4	1276.7	1346.6	4466.6	10473.9	10732.0	8390.3	6420.9
75°	348.7	360.0	479.6	747.5	1203.0	1282.4	2359.2	7716.5	7965.9	7016.2	4951.4
77.5°	171.0	177.2	271.2	482.4	1006.0	1221.9	1338.2	5241.4	5526.4	4579.5	2800.5
80°	72.3	75.6	135.6	297.7	719.2	1166.1	993.7	3225.8	3261.3	1794.1	746.1
82.5°	27.9	28.8	57.2	185.7	456.9	909.1	831.1	1529.5	1492.6	337.9	170.1
85°	3.4	3.8	20.8	111.5	254.2	467.8	675.2	659.2	610.0	67.1	87.4
87.5°	0.0	0.0	1.4	34.0	75.6	219.3	351.1	273.6	246.7	21.7	45.4
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°	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8	2821.8
2.5°	2814.7	2810.0	2784.5	2747.6	2712.7	2669.2	2627.6	2602.6	2582.7	2569.5	2585.0
5°	2822.2	2801.4	2723.9	2624.7	2527.4	2417.8	2315.7	2229.3	2195.3	2157.5	2174.4
7.5°	2819.9	2780.7	2641.3	2464.6	2285.9	2101.2	1926.3	1791.7	1721.8	1653.3	1670.7
10°	2808.1	2741.9	2530.7	2269.0	2001.5	1735.9	1487.9	1299.4	1194.1	1098.6	1112.3
12.5°	2782.1	2689.9	2400.3	2045.0	1687.3	1337.1	1046.6	805.1	675.7	618.5	625.6
15°	2766.5	2639.4	2262.4	1818.2	1351.9	931.3	639.8	475.8	416.8	397.9	400.2
17.5°	2759.0	2590.7	2119.6	1558.8	1008.8	593.0	413.4	364.8	352.0	348.7	349.6
20°	2751.4	2541.6	1972.7	1302.2	695.0	398.8	339.7	325.6	320.8	316.5	317.6
22.5°	2738.7	2494.3	1814.8	1042.3	468.8	323.6	306.2	292.5	282.5	277.3	278.3
25°	2723.0	2444.8	1653.8	776.4	342.1	288.7	272.2	252.8	241.0	231.5	232.0
27.5°	2697.9	2383.7	1487.4	565.1	287.3	258.5	236.2	215.0	195.2	184.3	184.3
30°	2663.0	2314.8	1302.7	404.5	257.5	228.7	201.8	175.3	154.1	144.1	143.2
32.5°	2624.3	2243.0	1116.1	306.7	233.9	200.8	170.1	142.2	123.3	115.3	114.9
35°	2591.2	2165.5	929.9	257.0	210.3	173.9	140.3	116.7	101.6	95.0	94.5
37.5°	2570.0	2088.0	748.4	229.6	189.0	148.9	117.7	96.4	85.5	80.3	79.8
40°	2566.6	2030.3	582.6	208.9	169.2	126.6	98.3	81.7	71.8	66.1	65.7
42.5°	2609.6	1997.2	447.0	191.3	148.9	107.2	83.7	70.0	59.5	53.8	53.4
45°	2722.5	2007.7	344.0	175.8	128.6	90.7	70.9	58.1	48.6	44.4	43.5
47.5°	2928.6	2079.5	273.6	160.1	109.2	77.0	60.5	48.2	40.1	35.9	35.4
50°	3295.3	2248.2	228.7	143.2	91.2	65.7	50.1	39.2	32.6	28.8	28.3
52.5°	3781.9	2548.7	204.1	126.6	75.6	55.8	41.1	31.2	25.5	22.6	22.2
55°	4318.7	2912.5	188.1	108.7	61.9	46.3	32.6	24.6	19.8	17.5	16.6
57.5°	4842.7	3227.6	172.9	91.2	51.5	37.8	26.0	19.4	15.6	13.2	12.8
60°	5324.2	3517.3	155.5	73.2	42.0	29.8	20.3	15.1	12.3	10.0	10.0
62.5°	5839.7	3741.3	131.3	57.2	34.5	22.6	16.6	13.7	10.0	8.5	8.0
65°	6385.9	3907.6	103.0	44.4	26.9	17.0	13.7	14.2	8.0	6.1	5.7
67.5°	6789.4	3874.5	76.1	34.9	20.8	13.2	13.2	15.1	7.1	4.8	4.3
69°	6700.5	3605.6	63.8	30.3	18.0	11.4	12.3	15.1	6.6	4.3	3.8
70°	6443.0	3308.0	56.3	26.9	16.0	10.4	11.8	14.6	6.1	4.3	3.8
72.5°	5365.7	2491.5	44.0	20.3	12.8	8.5	10.0	12.8	6.1	4.3	3.4
75°	4036.1	1594.7	33.5	14.6	9.4	6.6	7.5	9.4	6.1	3.8	3.4
77.5°	2196.2	575.0	24.1	10.0	6.6	5.2	5.2	7.1	5.7	2.8	1.9
80°	564.6	144.6	15.1	6.6	5.2	3.8	3.4	4.8	3.4	0.5	0.0
82.5°	139.4	32.6	8.0	4.8	3.8	1.4	1.4	2.3	1.4	0.0	0.0
85°	76.6	16.0	5.2	3.4	1.9	0.0	0.0	0.5	0.0	0.0	0.0
87.5°	39.2	4.8	1.4	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)