

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: P382913

Luminaire Tested: **GLEON-SA2D-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14487.4 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

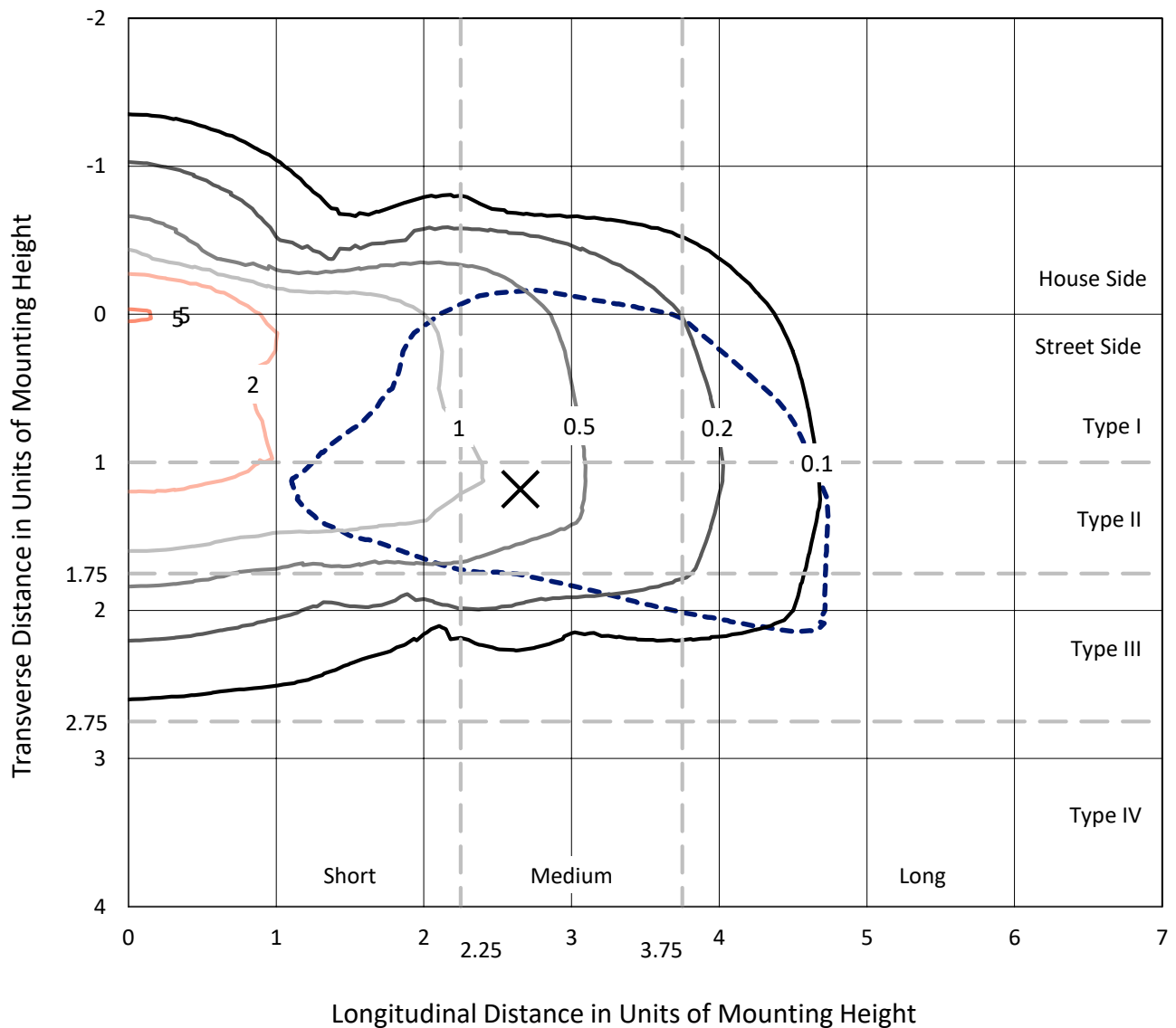
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

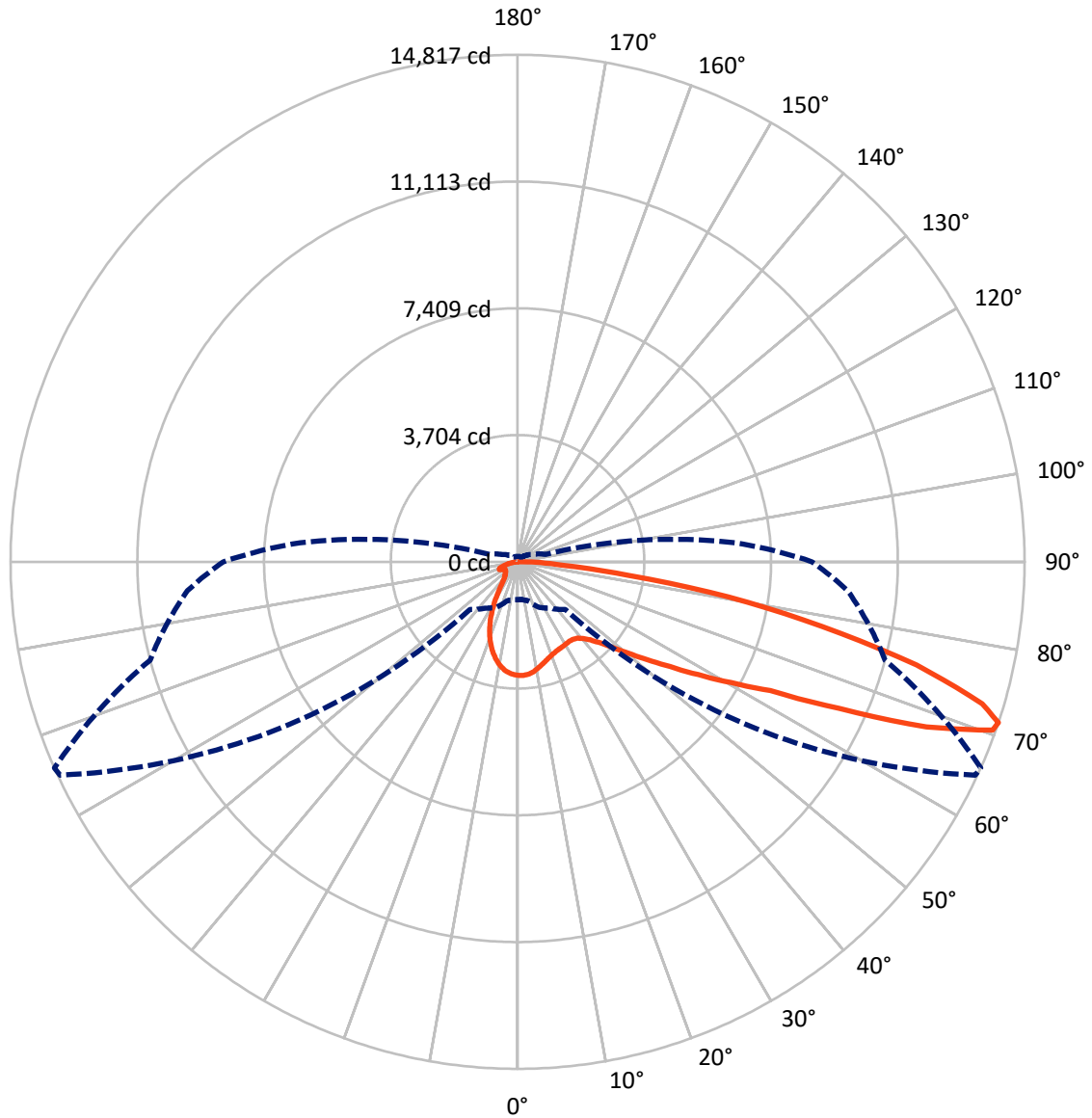
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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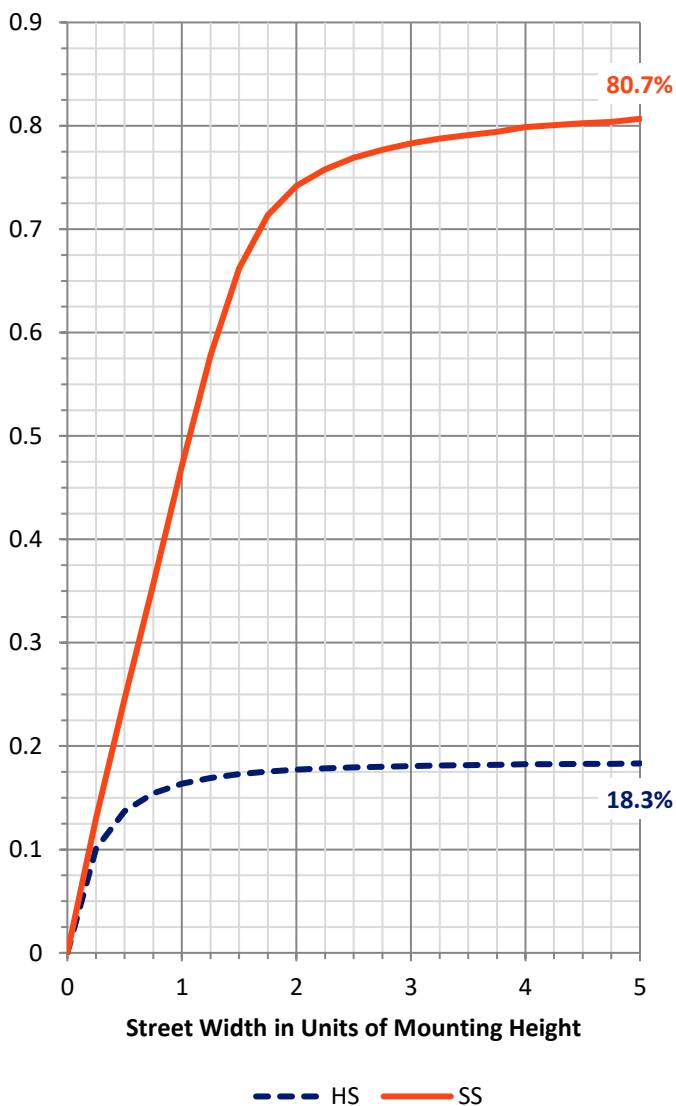
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2684.9	0.0	2684.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	11802.5	0.0	11802.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	14487.4	0.0	14487.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	2.0
10°-20°	700.7	4.8
20°-30°	941.2	6.5
30°-40°	1238.1	8.5
40°-50°	1801.1	12.4
50°-60°	2813.5	19.4
60°-70°	3524.4	24.3
70°-80°	2688.3	18.6
80°-90°	488.2	3.4
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°	14487.4	100.0
0°-180°	14487.4	100.0

Coefficient of Utilization



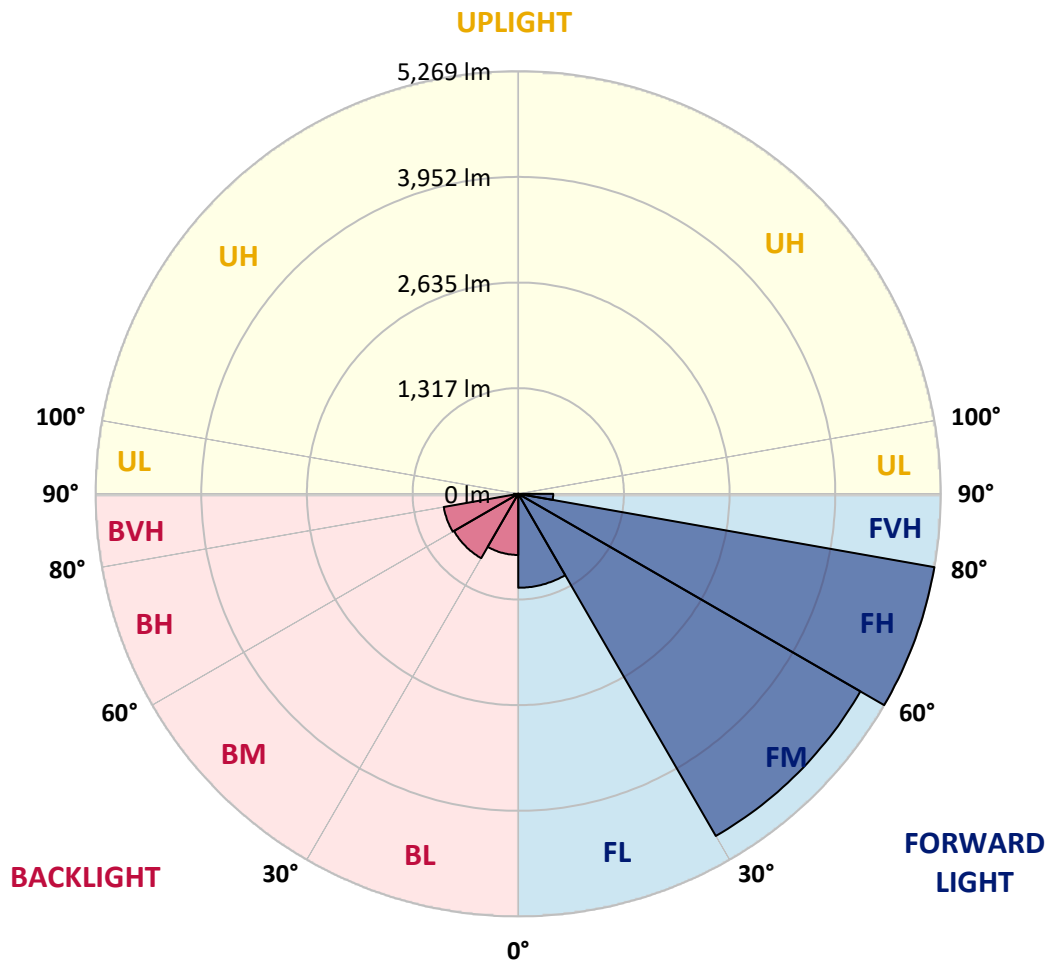
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1171.5	8.1			
FM (30°-60°)	4926.4	34.0			
FH (60°-80°)	5269.2	36.4			G3/7500
FVH (80°-90°)	435.3	3.0			G3/500
BL (0°-30°)	762.4	5.3	B2/1000		
BM (30°-60°)	926.2	6.4	B1/1000		
BH (60°-80°)	943.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	52.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8
2.5°	3257.2	3252.2	3267.3	3282.8	3288.7	3298.8	3313.8	3322.3	3321.8	3323.3	3318.3
5°	3041.2	3034.7	3064.7	3089.2	3136.2	3189.2	3253.8	3299.8	3300.8	3326.8	3333.8
7.5°	2836.6	2832.1	2866.7	2906.1	2960.6	3041.7	3146.2	3245.2	3251.3	3321.8	3346.3
10°	2672.5	2671.5	2705.0	2748.1	2811.6	2902.1	3022.2	3167.3	3176.2	3297.8	3348.3
12.5°	2544.5	2546.5	2575.5	2624.5	2691.5	2786.1	2916.1	3079.7	3094.2	3259.8	3336.8
15°	2450.0	2458.0	2481.5	2531.0	2597.0	2693.0	2826.6	2998.7	3020.6	3217.3	3330.3
17.5°	2395.9	2405.0	2421.5	2462.5	2524.5	2617.0	2743.6	2932.1	2952.2	3184.8	3330.7
20°	2379.9	2387.5	2397.0	2421.9	2474.5	2558.5	2678.0	2872.1	2893.7	3158.7	3335.8
22.5°	2411.4	2416.9	2417.9	2416.0	2447.9	2516.5	2630.5	2828.1	2851.1	3141.7	3339.3
25°	2478.9	2486.5	2481.0	2462.5	2451.9	2493.9	2606.0	2799.1	2822.1	3129.3	3332.3
27.5°	2580.5	2581.5	2577.0	2553.0	2503.4	2496.5	2598.6	2782.1	2804.1	3114.7	3317.8
30°	2718.5	2725.1	2717.0	2684.5	2603.5	2536.5	2607.5	2765.6	2785.6	3096.2	3294.3
32.5°	2880.2	2896.1	2895.6	2861.6	2745.6	2626.0	2644.6	2755.6	2771.1	3076.7	3265.7
35°	3047.7	3069.7	3110.7	3096.2	2952.6	2767.5	2715.6	2771.5	2782.1	3074.2	3245.8
37.5°	3221.8	3243.7	3328.3	3367.3	3199.2	2970.1	2827.6	2828.1	2833.1	3104.7	3244.3
40°	3403.8	3427.3	3554.4	3656.0	3518.8	3226.8	3008.2	2946.1	2940.6	3179.7	3273.7
42.5°	3658.9	3679.9	3832.5	3962.1	3873.5	3555.3	3257.8	3128.2	3116.7	3326.8	3368.3
45°	3981.5	3999.6	4161.6	4300.2	4254.7	3930.6	3571.4	3378.8	3376.8	3571.9	3559.9
47.5°	4365.2	4379.2	4524.7	4658.9	4675.3	4362.2	3965.5	3765.5	3733.0	3908.0	3856.5
50°	4764.9	4780.3	4879.4	5023.5	5146.0	4939.9	4472.7	4239.1	4195.6	4351.7	4276.6
52.5°	5029.4	5049.9	5136.0	5318.6	5675.2	5573.2	5072.5	4813.4	4747.4	4889.4	4831.8
55°	4911.4	4957.4	5089.0	5381.6	6098.4	6540.6	5812.3	5483.1	5408.6	5526.7	5492.6
57.5°	4374.7	4437.7	4617.3	5068.9	6157.9	7392.9	6930.7	6271.9	6219.4	6185.4	6200.9
60°	3393.8	3454.4	3676.9	4265.6	5743.3	8015.1	8613.8	7244.3	7168.3	6846.7	6860.7
62.5°	2401.9	2371.4	2523.9	2954.7	4666.8	8088.2	10529.1	8544.8	8294.7	7545.0	7483.4
65°	1831.7	1824.7	1893.3	2030.3	2826.6	7214.3	11670.1	10730.7	10340.0	8366.2	8221.2
67.5°	1505.1	1492.6	1560.1	1759.7	1820.2	4654.3	11695.0	13266.6	12883.0	9388.6	9074.5
70°	1237.5	1223.5	1286.5	1544.1	1682.2	2360.4	9842.8	14751.7	14731.2	10683.2	9718.7
71°	1109.5	1099.4	1175.0	1461.0	1652.7	1967.2	8498.3	14755.7	14817.3	11121.3	9680.7
72.5°	903.3	906.9	986.9	1300.5	1630.7	1737.1	6245.9	14068.0	14198.0	11539.0	9335.1
75°	600.2	603.3	708.3	1000.4	1581.1	1699.7	3432.8	11804.6	12043.7	11288.9	8518.4
77.5°	403.2	402.1	473.7	686.3	1377.6	1699.7	2012.8	8828.9	9091.5	8982.4	6567.0
80°	277.6	275.6	326.1	473.7	1042.9	1720.2	1556.2	6187.4	6266.9	4850.8	2669.1
82.5°	170.1	171.6	213.0	334.6	709.7	1548.1	1469.1	3373.8	3287.2	1360.5	666.8
85°	97.5	97.1	136.1	226.6	455.7	1306.5	1432.5	1452.1	1332.0	409.7	241.1
87.5°	35.0	37.5	73.0	125.6	261.1	909.8	1215.5	755.3	680.8	185.1	109.1
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°	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8
2.5°	3314.8	3317.8	3314.3	3294.3	3277.3	3249.8	3234.2	3212.7	3206.2	3203.2	3211.2
5°	3327.3	3328.3	3298.8	3246.3	3187.2	3117.7	3067.7	3006.2	2977.1	2964.7	2972.7
7.5°	3338.8	3334.3	3269.7	3169.2	3060.2	2939.1	2831.6	2733.1	2675.5	2652.0	2654.1
10°	3340.3	3321.2	3217.8	3062.2	2893.1	2715.6	2550.5	2398.5	2302.4	2239.9	2258.9
12.5°	3324.8	3292.7	3141.2	2923.7	2689.0	2447.0	2223.9	1995.7	1858.7	1795.2	1797.2
15°	3312.8	3254.7	3047.2	2760.5	2445.4	2124.9	1820.2	1552.1	1406.1	1341.1	1310.5
17.5°	3302.8	3213.7	2938.1	2577.0	2157.8	1751.2	1385.0	1146.0	1065.9	1046.9	1038.9
20°	3288.7	3170.2	2816.6	2364.5	1830.2	1333.0	1011.4	893.4	893.8	915.9	918.9
22.5°	3269.3	3120.7	2687.0	2125.8	1478.6	970.9	792.8	758.8	793.3	835.3	842.9
25°	3240.3	3062.2	2543.0	1862.3	1127.5	746.3	677.2	675.7	717.8	761.8	768.3
27.5°	3199.2	2985.7	2382.9	1579.2	830.8	634.3	606.7	617.2	648.3	680.3	682.7
30°	3144.3	2896.6	2206.4	1280.5	651.2	564.7	561.7	571.2	590.2	612.8	614.7
32.5°	3083.7	2806.1	2017.8	991.4	557.7	527.2	530.2	534.7	543.7	552.7	554.7
35°	3028.6	2713.6	1824.7	753.2	513.2	502.7	500.7	499.7	500.7	497.7	498.2
37.5°	2993.2	2637.0	1623.6	599.7	487.7	481.1	475.2	467.6	459.2	454.2	455.2
40°	2980.1	2580.0	1420.1	518.2	466.7	462.1	450.7	434.7	424.7	421.6	421.6
42.5°	3015.1	2550.5	1223.5	477.2	449.2	441.6	422.6	404.2	396.7	396.2	395.6
45°	3122.2	2562.5	1036.4	454.7	433.2	418.6	393.7	378.1	373.2	374.1	373.6
47.5°	3314.3	2638.0	876.3	439.7	417.1	398.1	370.1	357.6	351.7	351.7	352.1
50°	3641.0	2814.6	748.8	427.2	403.6	379.1	353.1	337.6	329.6	329.1	329.1
52.5°	4116.6	3130.7	669.2	416.7	388.6	362.2	336.1	316.6	307.1	305.1	304.2
55°	4712.8	3583.8	647.2	409.7	368.6	343.6	315.6	296.1	285.6	281.1	280.6
57.5°	5379.6	4135.1	690.7	401.1	348.1	321.7	293.2	274.6	263.6	258.1	257.6
60°	6054.3	4736.8	868.3	389.1	331.2	297.6	270.1	253.1	242.1	236.1	235.1
62.5°	6730.2	5371.1	1230.9	388.2	319.1	274.6	246.6	232.0	221.6	215.1	213.6
65°	7492.4	6065.4	1643.2	414.6	315.1	253.6	222.5	211.1	202.1	196.1	195.5
67.5°	8367.7	6849.2	1603.7	469.2	328.6	234.6	200.1	191.1	184.5	179.6	179.0
70°	8778.4	6726.6	996.8	507.7	347.7	216.1	178.6	172.1	167.0	163.6	162.1
71°	8606.4	6387.0	835.8	503.2	345.6	208.1	170.1	165.1	160.0	157.1	155.6
72.5°	8137.2	5824.8	697.3	468.2	323.2	193.6	159.1	154.1	149.5	146.1	145.0
75°	7301.8	5202.0	558.2	374.1	257.6	163.6	139.5	134.0	130.5	128.6	126.5
77.5°	5367.6	3712.4	431.7	295.6	189.6	133.6	119.1	115.0	111.5	108.5	107.0
80°	2056.3	1438.0	290.6	220.6	139.1	105.5	96.0	94.0	90.5	88.5	88.5
82.5°	553.7	429.6	155.1	133.6	93.1	77.0	73.5	72.6	69.5	65.5	66.0
85°	224.1	189.6	87.0	73.5	57.0	45.6	49.6	50.0	46.5	41.5	42.0
87.5°	98.6	80.5	48.5	32.5	25.0	17.5	22.5	22.5	20.5	17.0	15.5
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)