

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: P647877

Luminaire Tested: **GALN-SA4A-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA 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: 14139.4 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

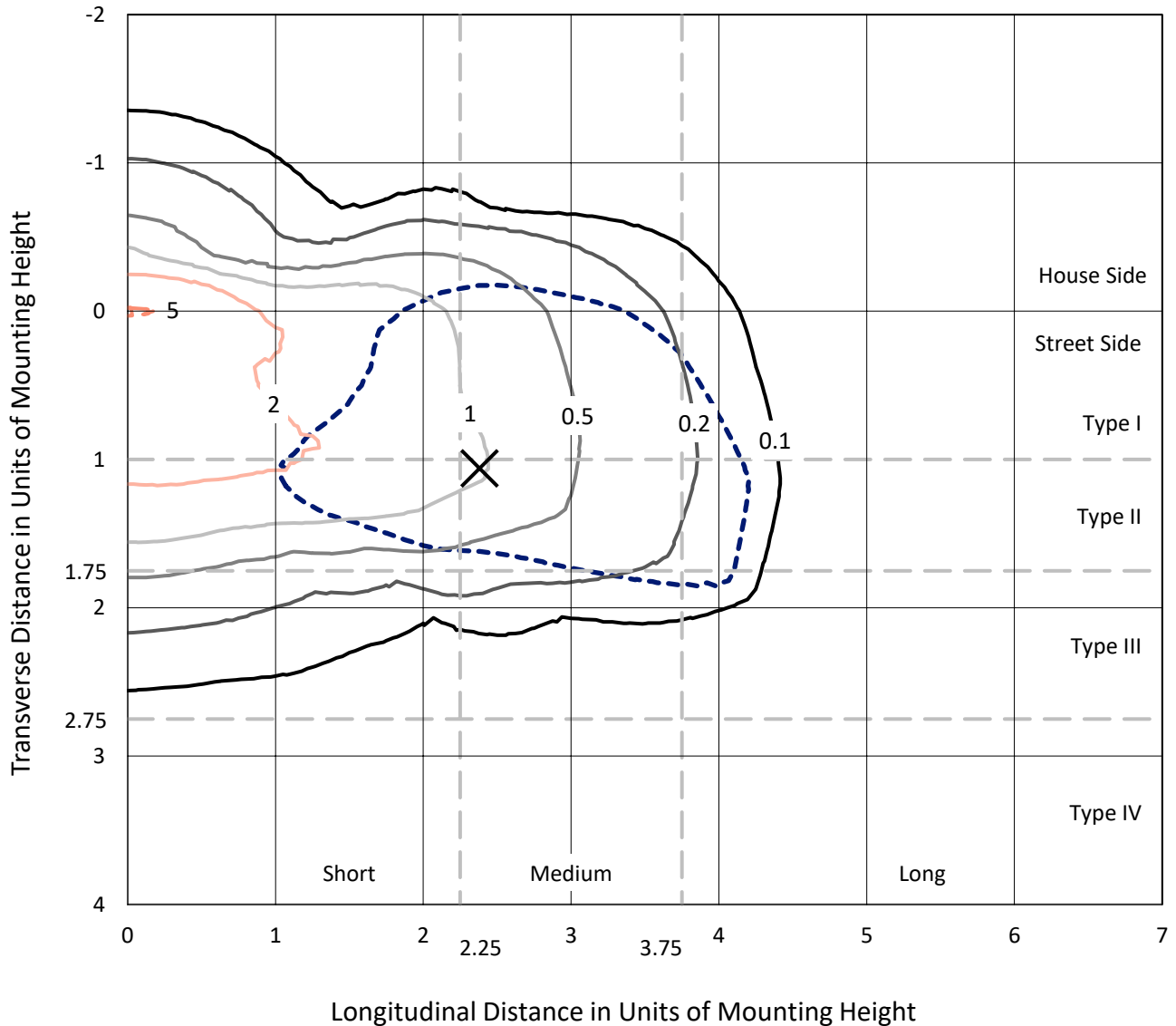
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

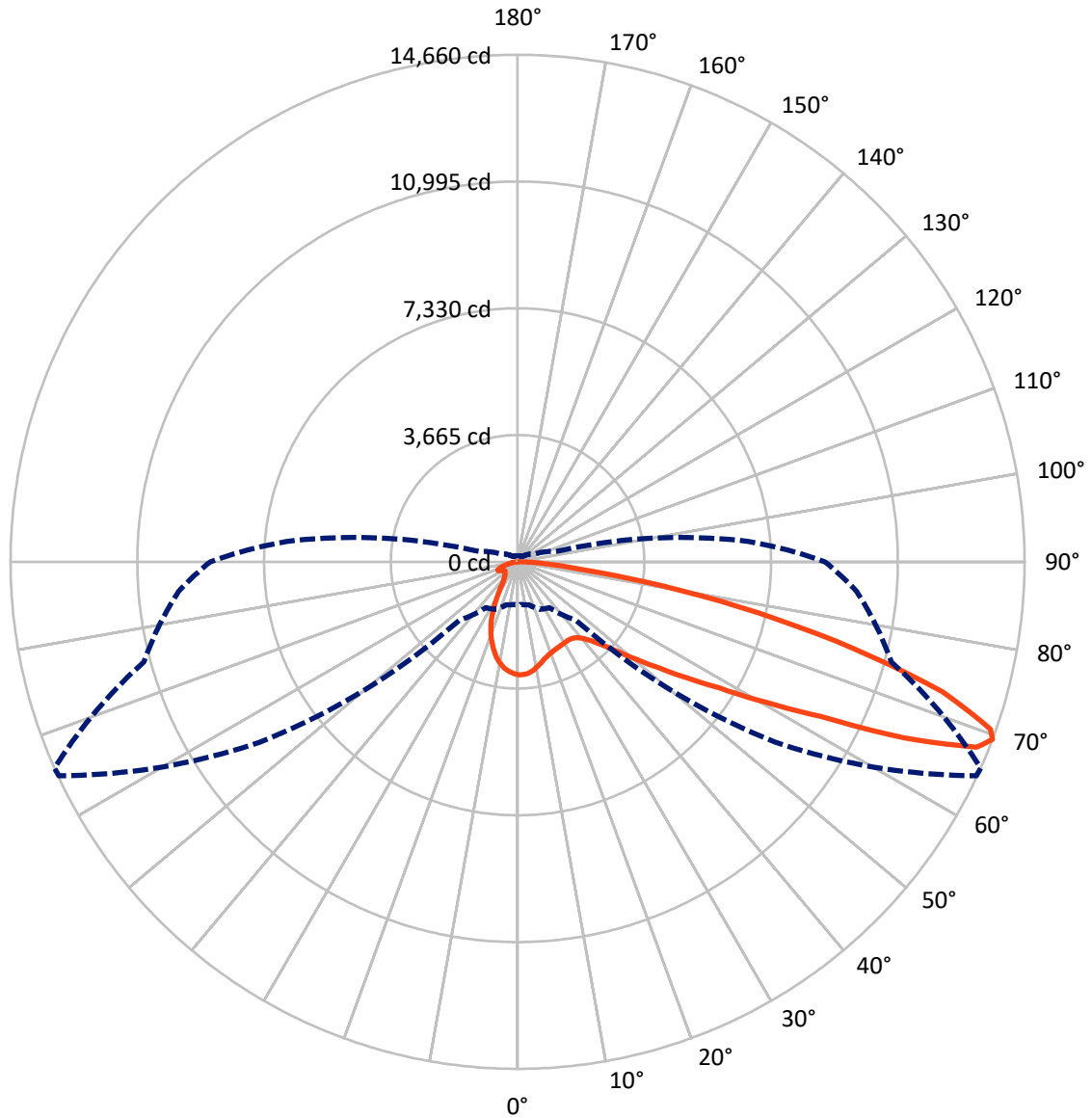
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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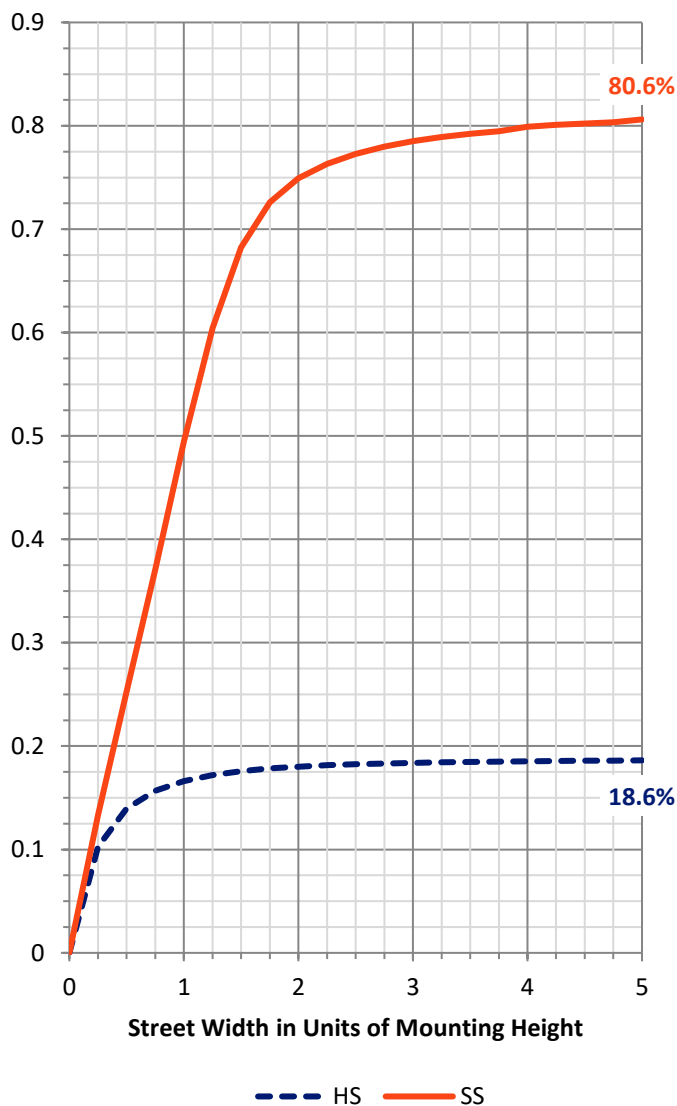
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2659.1	0.0	2659.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11480.3	0.0	11480.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	14139.4	0.0	14139.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	2.0
10°-20°	672.5	4.8
20°-30°	915.6	6.5
30°-40°	1230.4	8.7
40°-50°	1837.1	13.0
50°-60°	2922.2	20.7
60°-70°	3594.2	25.4
70°-80°	2338.5	16.5
80°-90°	345.3	2.4
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°	14139.4	100.0
0°-180°	14139.4	100.0

Coefficient of Utilization

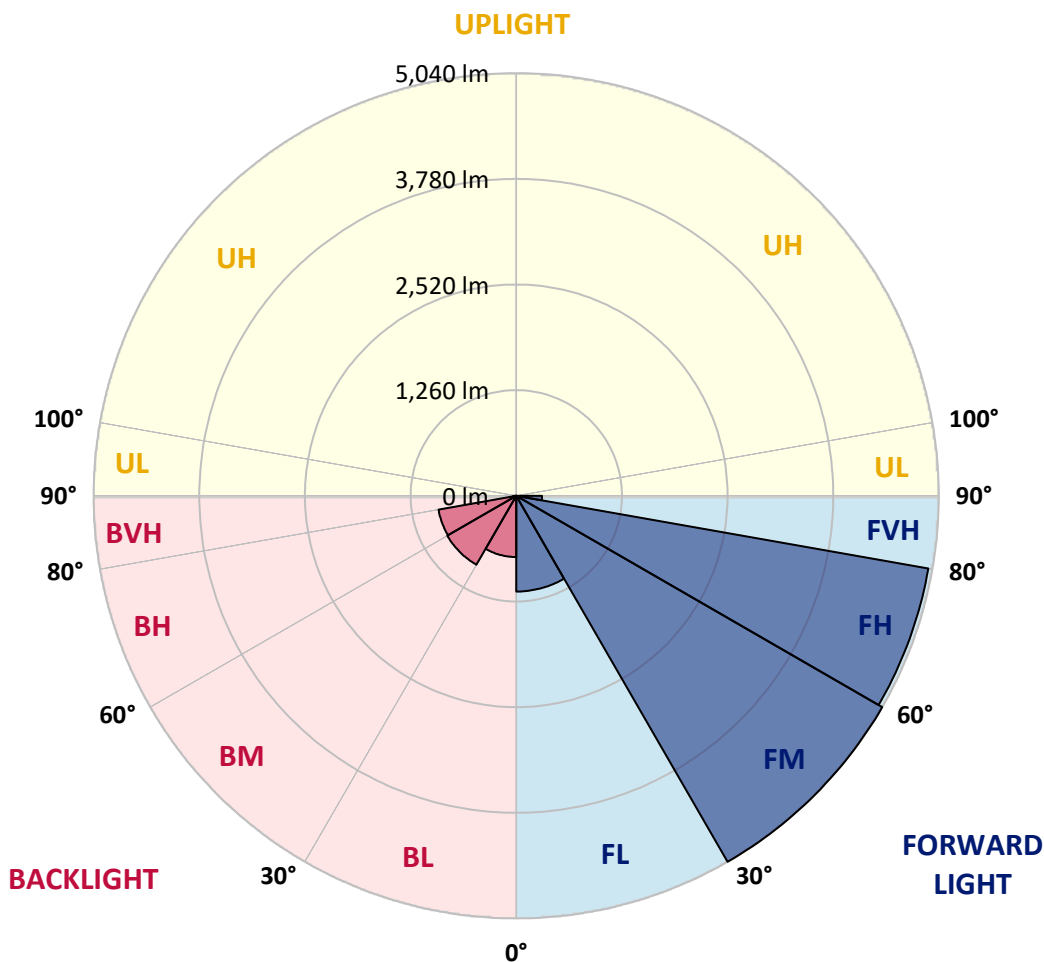


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1141.7	8.1			
FM (30°-60°)	5040.3	35.6			
FH (60°-80°)	4991.3	35.3			G2/5000
FVH (80°-90°)	307.0	2.2			G3/500
BL (0°-30°)	729.9	5.2	B2/1000		
BM (30°-60°)	949.4	6.7	B1/1000		
BH (60°-80°)	941.4	6.7	B2/1000		G2/1000
BVH (80°-90°)	38.3	0.3			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°	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2
2.5°	3150.9	3163.4	3177.5	3193.2	3222.9	3239.3	3251.1	3264.4	3266.0	3273.0	3267.5
5°	2918.3	2933.2	2954.3	2984.1	3028.7	3098.4	3170.4	3229.2	3236.2	3269.1	3278.5
7.5°	2724.1	2732.7	2750.0	2797.7	2861.2	2938.7	3043.6	3162.6	3179.8	3258.1	3285.5
10°	2566.0	2574.6	2594.9	2644.3	2706.9	2804.0	2919.1	3075.7	3089.8	3224.5	3287.1
12.5°	2447.7	2455.6	2477.5	2526.0	2598.1	2688.9	2815.7	2981.7	3002.1	3179.8	3272.2
15°	2357.7	2372.6	2390.6	2430.5	2506.5	2594.2	2717.1	2895.6	2912.1	3132.9	3262.1
17.5°	2319.3	2326.4	2338.9	2375.7	2431.3	2517.4	2641.1	2828.3	2847.8	3100.0	3259.7
20°	2320.9	2327.9	2330.3	2350.6	2390.6	2465.0	2587.1	2775.0	2798.5	3071.0	3263.6
22.5°	2374.1	2374.9	2366.3	2359.3	2374.9	2436.8	2548.7	2735.1	2762.5	3058.5	3266.8
25°	2456.3	2470.4	2457.9	2425.0	2396.1	2425.8	2533.9	2713.2	2739.0	3040.5	3262.8
27.5°	2589.5	2591.8	2581.6	2537.0	2461.8	2439.9	2527.6	2696.7	2718.7	3027.2	3243.3
30°	2768.0	2760.9	2751.5	2702.2	2584.0	2493.9	2540.9	2681.9	2704.6	3007.6	3219.8
32.5°	2948.9	2970.8	2962.2	2904.2	2750.8	2598.9	2584.0	2680.3	2699.1	2992.7	3193.9
35°	3140.7	3150.9	3191.6	3161.8	3004.4	2768.8	2664.6	2704.6	2719.4	2993.5	3175.9
37.5°	3291.0	3318.4	3414.0	3439.8	3291.8	2993.5	2795.4	2773.5	2779.7	3031.9	3183.0
40°	3472.7	3519.7	3642.6	3748.3	3651.2	3285.5	3017.8	2901.1	2908.9	3124.2	3229.2
42.5°	3702.9	3735.8	3901.0	4044.3	4028.6	3671.6	3287.1	3110.2	3114.1	3308.3	3358.4
45°	3972.2	4019.2	4204.8	4420.1	4456.9	4108.5	3676.3	3426.5	3424.1	3594.0	3599.5
47.5°	4316.8	4345.7	4529.7	4764.6	4913.4	4657.4	4148.4	3880.6	3855.6	4010.6	3966.0
50°	4633.9	4679.3	4818.7	5075.5	5445.9	5300.3	4769.3	4469.4	4410.7	4555.6	4480.4
52.5°	4767.0	4814.7	4932.2	5251.0	5902.4	6131.8	5557.9	5171.8	5073.9	5185.1	5157.7
55°	4536.0	4597.9	4707.5	5095.1	6102.9	7091.0	6621.2	5983.8	5912.6	5864.8	5872.7
57.5°	3915.1	3973.8	4121.8	4549.3	5863.3	7787.1	8139.4	7027.6	6874.9	6654.9	6692.5
60°	2980.2	3017.0	3093.7	3567.4	5153.0	7968.0	9863.7	8346.9	8249.8	7441.8	7468.4
62.5°	2116.5	2158.0	2211.3	2447.7	3772.6	7458.2	11213.6	10189.4	9842.5	8256.9	8231.1
65°	1718.7	1690.5	1754.8	1865.2	2213.6	5780.3	11517.4	12746.8	12269.1	9330.5	8971.8
67.5°	1413.3	1383.6	1447.0	1643.5	1683.4	3355.2	10422.7	14406.7	14311.2	10497.9	9724.3
69°	1251.2	1235.6	1291.2	1515.1	1616.1	2382.7	9079.9	14637.7	14660.4	11186.2	9840.2
70°	1127.5	1133.8	1187.8	1450.1	1585.6	1964.6	7760.5	14319.0	14511.7	11529.9	9714.9
72.5°	830.0	843.3	918.5	1201.1	1556.6	1667.0	4618.2	12507.2	12847.8	11550.3	8887.3
75°	580.2	573.9	640.5	904.4	1470.5	1652.1	2712.4	9672.6	10058.7	9983.5	7467.6
77.5°	379.8	389.9	443.2	638.9	1237.1	1639.6	1768.1	6862.4	7112.9	6676.8	4417.0
80°	267.8	267.0	296.8	436.1	917.7	1575.4	1447.8	4325.4	4261.9	2623.9	1310.0
82.5°	153.5	164.4	198.9	306.9	613.9	1386.7	1331.9	2068.8	1888.7	747.8	442.4
85°	85.3	89.3	118.2	185.6	358.6	1044.5	1162.8	941.2	887.9	312.4	190.3
87.5°	27.4	29.8	49.3	94.0	162.9	493.3	658.5	434.6	400.9	112.8	76.7
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°	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2	3265.2
2.5°	3269.9	3279.3	3254.2	3230.0	3208.0	3177.5	3150.1	3127.4	3111.7	3109.4	3101.5
5°	3280.8	3281.6	3233.9	3169.7	3107.0	3038.1	2966.9	2916.0	2868.2	2841.6	2828.3
7.5°	3288.7	3281.6	3195.5	3091.4	2970.8	2845.5	2720.2	2620.0	2542.5	2511.9	2523.7
10°	3285.5	3263.6	3137.6	2970.8	2795.4	2608.3	2428.2	2287.2	2158.0	2091.5	2093.0
12.5°	3268.3	3232.3	3051.4	2835.3	2577.7	2327.2	2051.5	1861.3	1711.6	1623.2	1595.8
15°	3253.4	3190.8	2950.4	2651.3	2331.1	1973.2	1637.3	1402.4	1277.1	1207.4	1206.6
17.5°	3237.8	3150.9	2840.0	2456.3	2047.6	1587.1	1234.8	1055.5	996.8	1003.8	992.1
20°	3221.3	3103.9	2724.9	2239.5	1702.2	1183.9	924.7	851.9	868.3	900.4	905.1
22.5°	3202.5	3053.8	2601.2	2000.6	1338.9	891.1	750.1	739.2	781.4	831.5	838.6
25°	3173.6	2991.1	2445.4	1750.9	1032.8	718.0	656.9	664.8	706.3	748.5	753.2
27.5°	3132.9	2913.6	2288.0	1439.2	776.0	616.2	600.6	610.7	631.1	656.9	663.2
30°	3078.1	2825.9	2107.1	1169.8	621.7	565.3	559.1	564.5	576.3	587.2	590.4
32.5°	3023.2	2741.4	1924.7	895.8	554.4	531.7	525.4	525.4	525.4	527.0	527.7
35°	2972.3	2661.5	1728.9	697.7	519.1	505.0	496.4	487.0	485.5	480.0	480.0
37.5°	2944.2	2588.7	1520.6	584.1	493.3	483.1	471.4	455.7	447.1	447.9	446.3
40°	2949.6	2540.9	1331.1	519.9	472.1	461.2	443.2	425.2	419.7	419.7	418.1
42.5°	3011.5	2525.3	1149.4	486.2	451.8	439.3	416.6	400.1	397.0	396.2	397.8
45°	3154.0	2563.6	986.6	464.3	434.6	415.8	393.1	378.2	375.1	375.1	374.3
47.5°	3432.0	2688.1	869.9	450.2	422.0	397.8	374.3	359.4	353.9	352.4	352.4
50°	3864.2	2958.3	783.0	437.7	406.4	381.3	357.0	339.8	331.2	330.4	329.6
52.5°	4464.7	3379.5	749.3	428.3	389.2	364.1	337.5	321.0	310.1	307.7	306.2
55°	5167.1	3967.5	795.5	421.3	371.1	344.5	317.1	299.9	289.7	285.0	284.2
57.5°	5980.7	4673.8	970.9	411.9	354.7	323.4	296.8	279.5	268.6	263.1	261.5
60°	6711.2	5399.7	1277.1	406.4	340.6	300.7	273.3	257.6	247.4	241.9	241.2
62.5°	7513.8	6091.9	1642.7	421.3	334.3	278.7	251.3	237.2	228.6	223.2	223.2
65°	8371.2	6784.9	1884.8	471.4	343.7	261.5	227.9	216.1	208.3	204.4	203.6
67.5°	8949.1	7024.4	1552.7	523.0	367.2	242.7	205.1	195.8	191.1	187.1	187.1
69°	8886.5	6721.4	1145.5	536.4	374.3	233.3	192.6	185.6	179.3	177.7	176.2
70°	8688.3	6376.1	960.0	527.7	368.8	224.7	184.8	176.2	170.7	169.1	168.3
72.5°	7738.5	5529.7	714.9	458.8	314.0	195.0	163.6	155.8	151.1	148.8	148.8
75°	6429.4	4519.6	558.3	364.9	245.9	164.4	140.2	133.9	130.0	128.4	127.6
77.5°	3603.4	2523.7	400.9	285.8	186.4	133.1	117.4	112.0	108.1	106.5	106.5
80°	1003.8	721.1	235.7	188.7	126.8	101.0	93.2	89.3	83.8	79.9	82.2
82.5°	378.2	312.4	134.7	113.5	80.6	67.3	65.0	61.9	59.5	54.0	54.0
85°	184.0	151.9	86.1	60.3	44.6	35.2	33.7	32.1	30.5	26.6	27.4
87.5°	63.4	67.3	37.6	21.9	13.3	8.6	7.0	3.9	3.9	3.9	3.9
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)