

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: P652274

Luminaire Tested: **GALN-SA3B-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8338.5 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

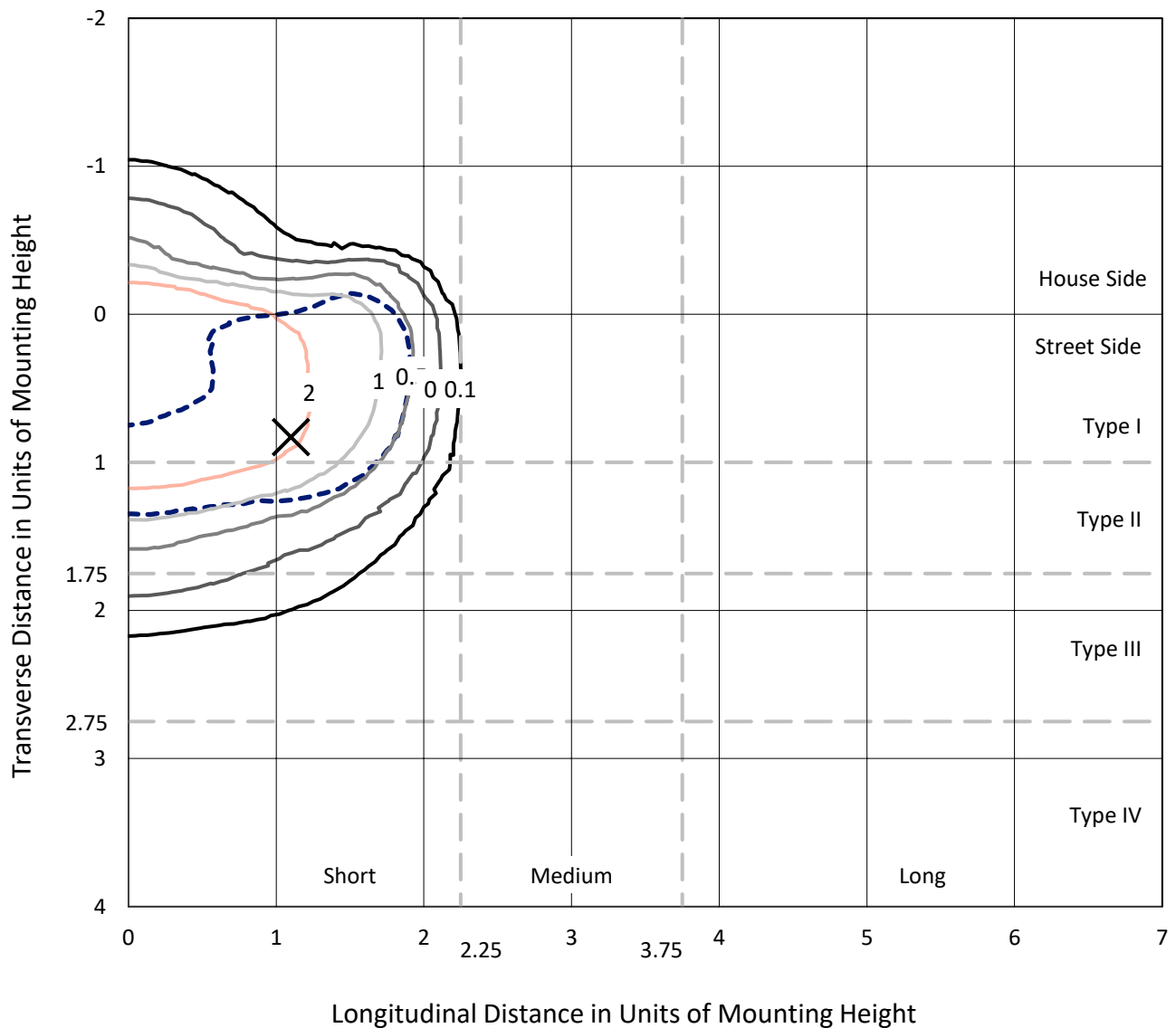
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

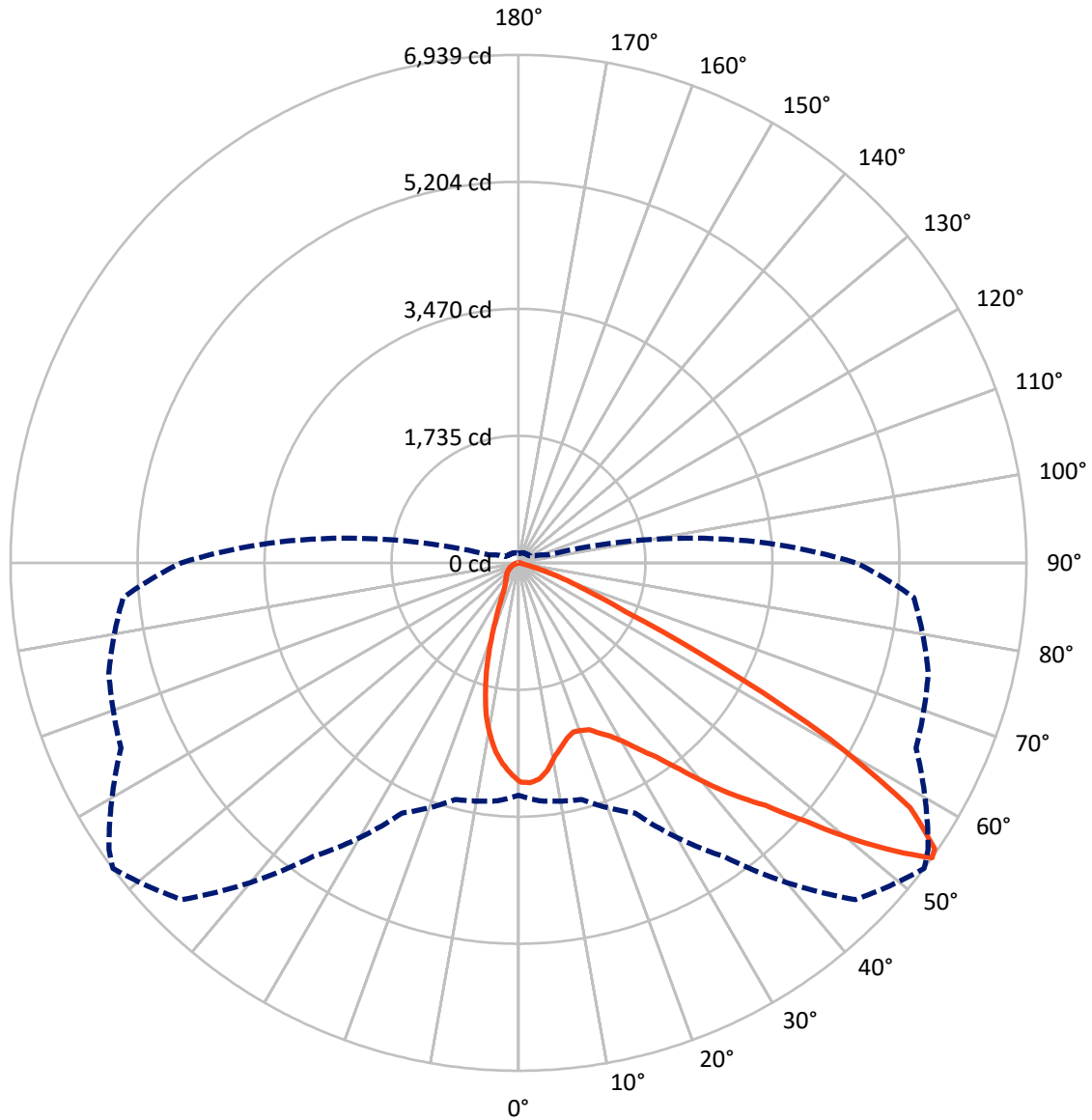
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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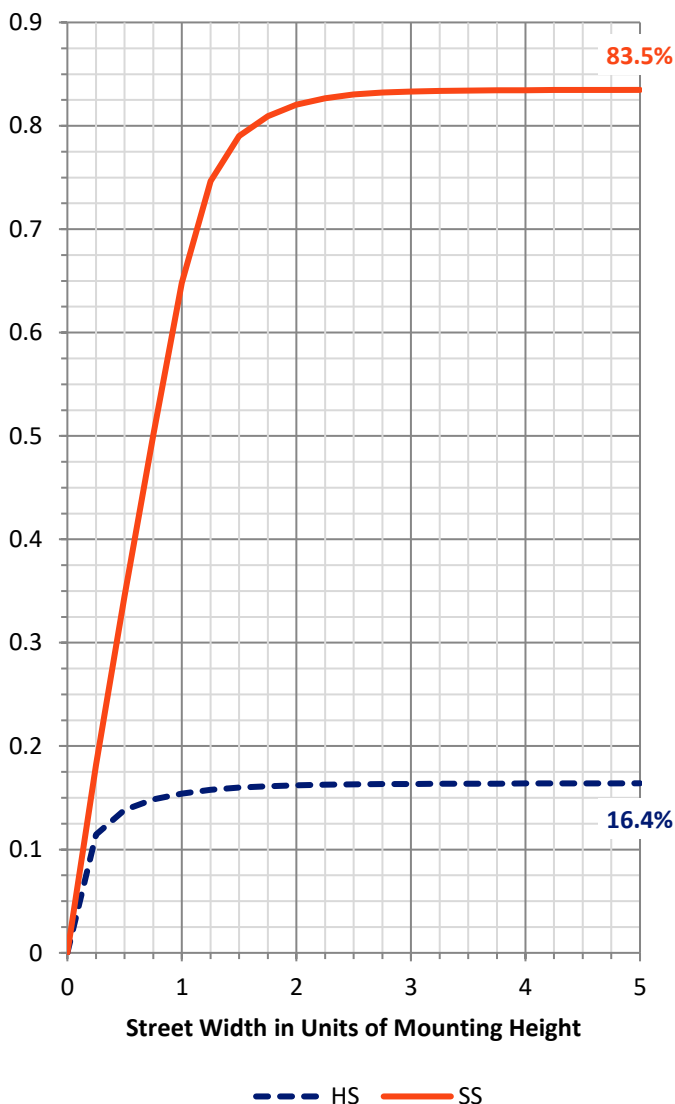
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1379.6	0.0	1379.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6958.9	0.0	6958.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	8338.5	0.0	8338.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	3.1
10°-20°	589.1	7.1
20°-30°	837.3	10.0
30°-40°	1292.2	15.5
40°-50°	2026.0	24.3
50°-60°	2353.5	28.2
60°-70°	889.3	10.7
70°-80°	84.6	1.0
80°-90°	9.5	0.1
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°	8338.5	100.0
0°-180°	8338.5	100.0

Coefficient of Utilization



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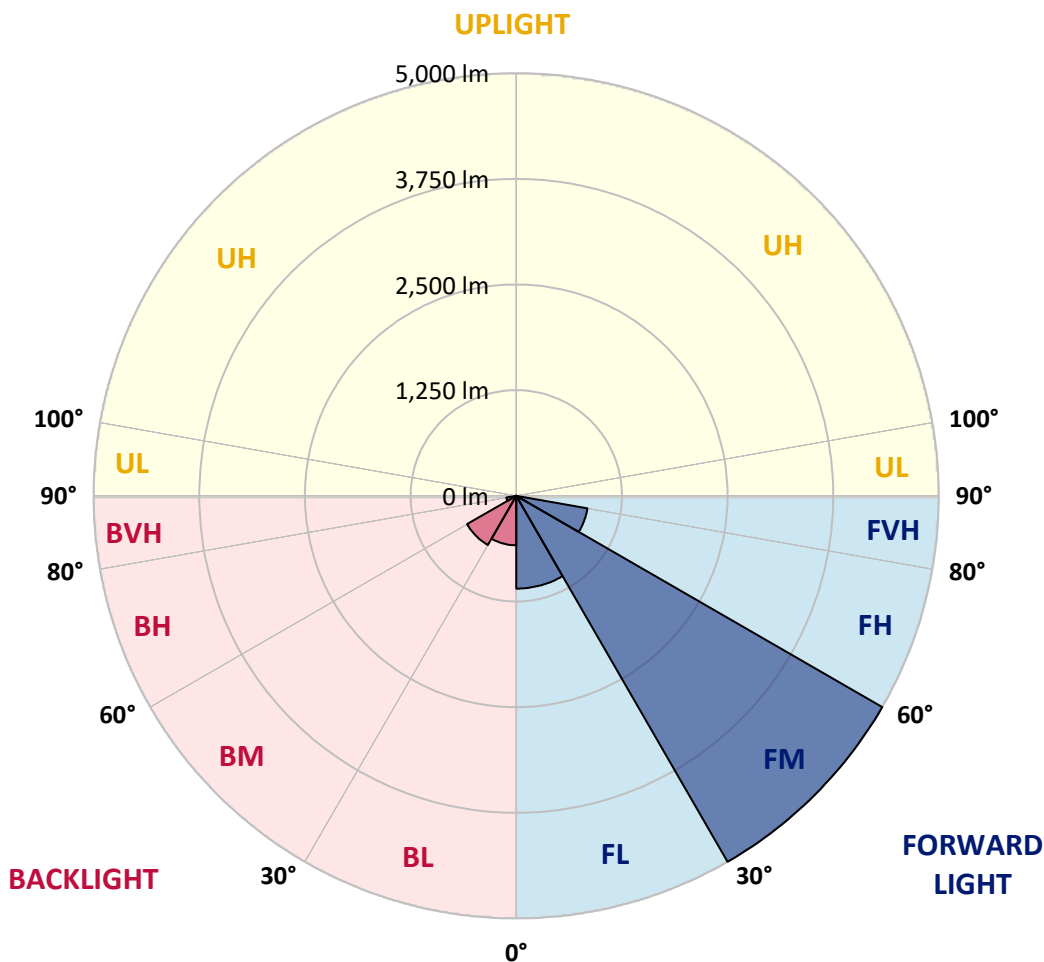
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.0	13.2			
FM (30°-60°)	5000.3	60.0			
FH (60°-80°)	855.7	10.3			G1/1800
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	585.5	7.0	B2/1000		
BM (30°-60°)	671.4	8.1	B1/1000		
BH (60°-80°)	118.2	1.4	B1/500		G1/500
BVH (80°-90°)	4.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1
2.5°	2979.5	2953.1	2979.5	2982.6	3001.3	3018.3	3007.5	3032.3	3018.3	3002.8	2998.2
5°	2738.7	2774.5	2776.1	2832.0	2819.5	2922.1	2967.1	2954.7	3030.8	3026.1	3015.2
7.5°	2522.8	2508.8	2527.5	2592.7	2675.1	2793.1	2858.4	2856.8	2965.5	3043.2	3035.4
10°	2322.4	2320.8	2359.7	2411.0	2480.9	2605.2	2695.2	2740.3	2909.6	3027.7	3044.8
12.5°	2187.3	2181.0	2223.0	2264.9	2375.2	2471.5	2586.5	2608.3	2802.5	2973.3	3001.3
15°	2098.7	2112.7	2115.8	2196.6	2266.5	2393.9	2484.0	2529.1	2752.7	2929.8	3037.0
17.5°	2083.2	2101.8	2103.3	2170.2	2244.7	2351.9	2431.2	2491.7	2710.8	2951.6	3038.5
20°	2114.3	2103.3	2112.7	2154.6	2227.6	2330.2	2445.1	2465.3	2696.8	2962.4	3055.6
22.5°	2202.8	2199.7	2176.4	2210.6	2261.8	2369.0	2477.8	2508.8	2737.2	3018.3	3069.6
25°	2300.6	2317.7	2296.0	2291.3	2327.0	2432.7	2577.2	2617.5	2872.4	3119.4	3113.1
27.5°	2484.0	2466.9	2466.9	2445.1	2435.8	2487.1	2684.4	2751.2	3023.0	3249.8	3162.8
30°	2659.5	2678.2	2664.2	2671.9	2609.8	2605.2	2836.6	2918.9	3290.2	3448.7	3268.5
32.5°	2937.6	2912.7	2936.0	2915.8	2833.5	2749.6	3043.2	3128.7	3613.4	3677.0	3426.9
35°	3169.1	3158.2	3257.6	3254.5	3120.9	3038.5	3262.2	3389.7	3838.6	3950.4	3613.4
37.5°	3498.4	3478.2	3591.6	3646.0	3526.3	3403.6	3576.0	3723.6	4048.3	4169.4	3804.4
40°	3837.1	3888.3	4040.5	4130.7	4003.2	3840.1	3959.8	4004.8	4188.1	4312.4	3934.9
42.5°	4265.8	4340.3	4495.6	4573.4	4562.5	4385.4	4349.7	4348.1	4289.1	4272.0	4031.2
45°	4677.5	4649.5	4888.7	5058.0	5194.8	5143.5	4725.6	4679.0	4449.1	4332.6	4056.1
47.5°	4857.6	4848.3	5011.4	5312.8	5778.8	5842.5	5272.4	5092.3	4719.4	4587.3	4191.2
50°	4624.7	4672.8	4834.3	5168.4	5882.9	6369.1	5943.5	5701.1	5034.7	4898.1	4511.2
52.5°	3863.5	3896.0	4049.8	4474.0	5528.7	6679.8	6586.6	6446.9	5614.2	5387.4	5068.9
54°	3176.8	3263.8	3347.7	3773.3	4898.1	6507.4	6939.3	6832.1	5991.6	5794.4	5420.0
55°	2766.7	2817.9	2878.6	3302.6	4461.5	6215.3	6898.9	6908.2	6244.8	5921.7	5656.1
57.5°	2021.0	2056.7	1994.6	2182.6	3063.4	5047.2	6310.1	6561.8	6586.6	6112.8	5800.5
60°	1544.2	1559.6	1489.7	1519.3	1904.5	3464.2	4880.9	5183.8	5941.9	5342.3	4913.5
62.5°	1197.8	1200.8	1199.3	1250.6	1312.6	2038.2	3052.5	3321.3	4096.4	3793.5	3336.8
65°	882.4	868.4	893.2	1048.6	1120.0	1281.6	1607.8	1803.5	2226.1	1879.6	1343.7
67.5°	571.7	576.3	601.1	779.9	960.0	983.3	989.5	974.0	975.6	537.5	337.1
70°	343.3	351.1	343.3	441.2	686.6	705.3	644.7	629.2	490.9	127.4	125.8
72.5°	203.5	192.6	172.4	189.6	285.9	341.8	307.6	306.0	192.6	74.6	74.6
75°	85.4	77.7	63.7	57.4	76.1	73.0	73.0	65.3	51.3	49.7	46.6
77.5°	17.1	17.1	12.4	14.0	18.7	21.8	26.4	26.4	31.0	31.0	29.5
80°	0.0	1.5	4.6	9.3	14.0	20.2	23.3	23.3	26.4	26.4	21.8
82.5°	0.0	1.5	4.6	9.3	12.4	18.7	23.3	23.3	26.4	27.9	23.3
85°	0.0	1.5	4.6	7.7	12.4	15.6	15.6	14.0	10.8	9.3	6.2
87.5°	0.0	0.0	1.5	3.1	1.5	3.1	3.1	3.1	3.1	3.1	3.1
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°	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1
2.5°	3009.0	3007.5	2970.2	2909.6	2895.6	2844.3	2838.1	2807.1	2824.2	2766.7	2760.5
5°	2984.2	2965.5	2920.5	2881.7	2768.2	2687.5	2623.8	2546.1	2501.0	2508.8	2479.3
7.5°	3019.9	2971.8	2892.5	2757.4	2619.1	2477.8	2401.6	2243.2	2185.7	2100.2	2087.9
10°	2982.6	2946.9	2824.2	2600.5	2409.4	2205.9	2027.2	1851.7	1718.1	1660.6	1648.2
12.5°	2979.5	2917.3	2712.3	2463.8	2187.3	1895.2	1635.7	1416.7	1284.7	1210.1	1193.0
15°	2931.4	2856.8	2586.5	2252.5	1870.4	1506.8	1224.2	1012.8	911.9	868.4	880.8
17.5°	2936.0	2824.2	2460.7	2028.8	1558.1	1106.1	835.8	727.0	700.6	711.5	711.5
20°	2931.4	2751.2	2308.5	1770.9	1193.0	767.4	613.6	574.7	591.9	626.0	618.3
22.5°	2906.5	2717.0	2168.6	1499.1	877.7	568.6	492.4	494.0	520.4	562.4	571.7
25°	2925.2	2640.9	1991.5	1224.2	640.0	453.6	427.2	438.1	466.0	497.1	503.3
27.5°	2911.2	2586.5	1806.6	950.8	467.6	389.9	388.4	400.8	413.2	436.5	436.5
30°	2926.7	2536.8	1624.9	706.9	385.3	357.3	351.1	360.4	372.8	377.5	375.9
32.5°	2984.2	2499.5	1415.2	528.1	340.2	326.2	326.2	326.2	324.7	330.8	332.4
35°	3110.0	2505.7	1230.3	408.6	310.7	299.8	295.2	289.0	285.9	289.0	290.5
37.5°	3246.7	2502.6	1039.2	348.0	289.0	279.6	268.8	259.4	257.9	261.0	256.3
40°	3307.3	2532.2	862.2	312.3	268.8	257.9	240.8	233.0	234.6	237.7	234.6
42.5°	3389.7	2541.4	747.2	284.3	250.1	233.0	222.1	212.9	211.3	216.0	214.4
45°	3388.1	2488.6	626.0	268.8	233.0	214.4	200.4	192.6	192.6	195.7	197.3
47.5°	3487.5	2480.9	537.5	254.7	220.6	201.9	184.9	178.6	177.1	177.1	174.0
50°	3719.0	2589.6	469.1	239.3	205.0	188.0	174.0	166.2	160.0	156.9	155.3
52.5°	4171.0	2928.3	416.3	220.6	188.0	174.0	161.6	155.3	147.6	139.8	138.3
54°	4609.1	3277.8	413.2	205.0	174.0	164.7	153.8	150.7	141.4	130.5	127.4
55°	4806.4	3481.3	424.1	192.6	164.7	158.4	149.1	146.0	136.7	124.3	122.7
57.5°	4969.5	3560.5	417.9	160.0	149.1	147.6	139.8	135.1	124.3	107.2	104.1
60°	4000.1	2692.1	299.8	141.4	136.7	133.6	127.4	124.3	110.3	91.7	90.1
62.5°	2527.5	1548.8	191.1	124.3	119.6	115.0	107.2	104.1	91.7	73.0	68.4
65°	1076.6	641.6	128.9	110.3	102.5	94.8	88.6	83.8	73.0	54.4	52.8
67.5°	279.6	228.3	107.2	96.3	85.4	74.6	69.9	62.1	49.7	37.3	35.7
70°	125.8	115.0	90.1	80.8	68.4	57.4	51.3	43.5	32.6	24.9	23.3
72.5°	74.6	73.0	68.4	60.6	51.3	43.5	37.3	29.5	21.8	14.0	14.0
75°	46.6	45.1	46.6	42.0	35.7	32.6	27.9	20.2	12.4	6.2	6.2
77.5°	27.9	27.9	27.9	26.4	24.9	24.9	20.2	12.4	6.2	1.5	1.5
80°	21.8	21.8	23.3	21.8	21.8	21.8	17.1	9.3	3.1	0.0	0.0
82.5°	21.8	23.3	26.4	24.9	21.8	18.7	15.6	9.3	3.1	0.0	0.0
85°	6.2	4.6	7.7	10.8	15.6	14.0	10.8	7.7	3.1	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	1.5	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)