

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: P651780

Luminaire Tested: **GALN-SA3A-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9731.2 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

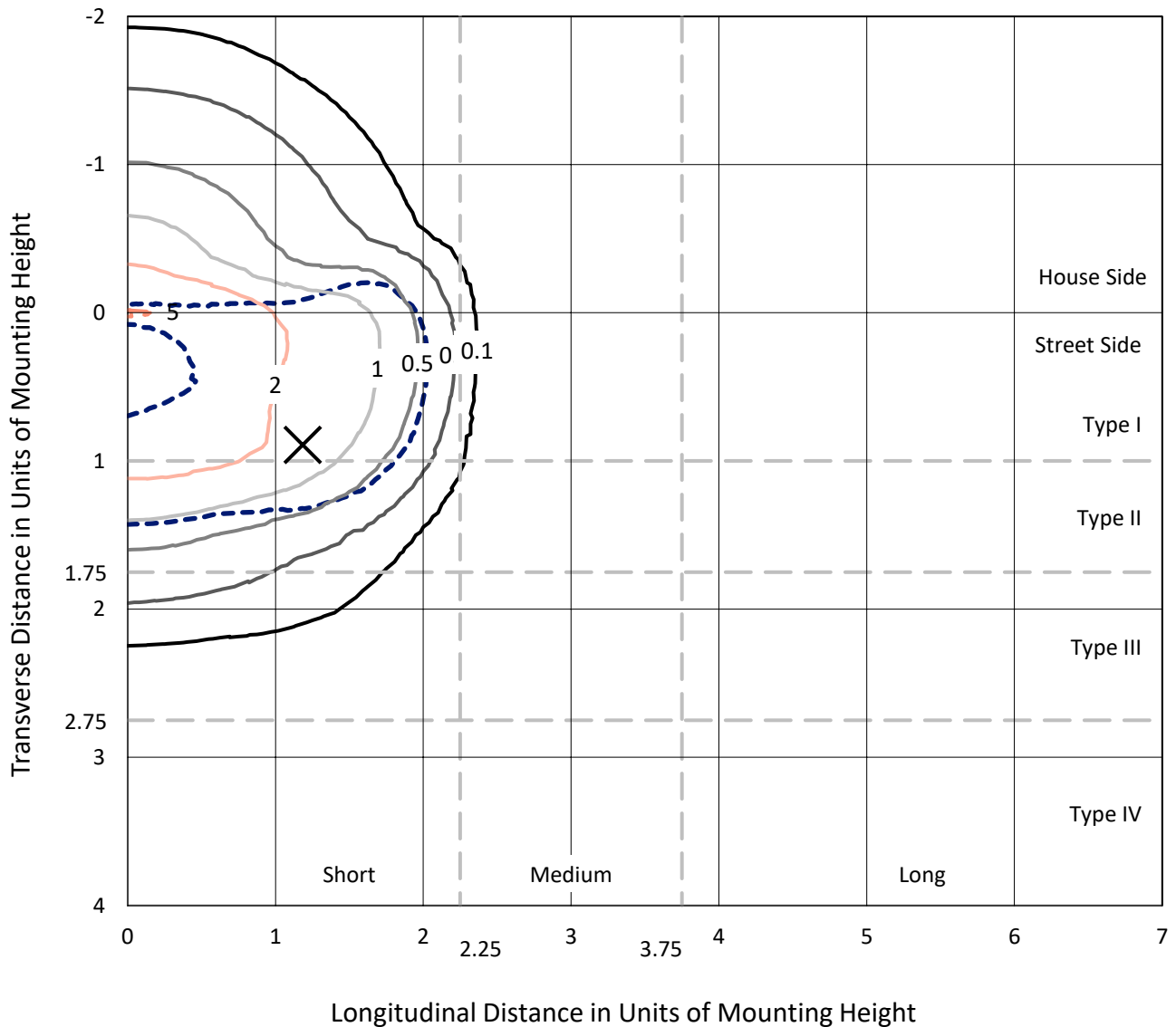
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

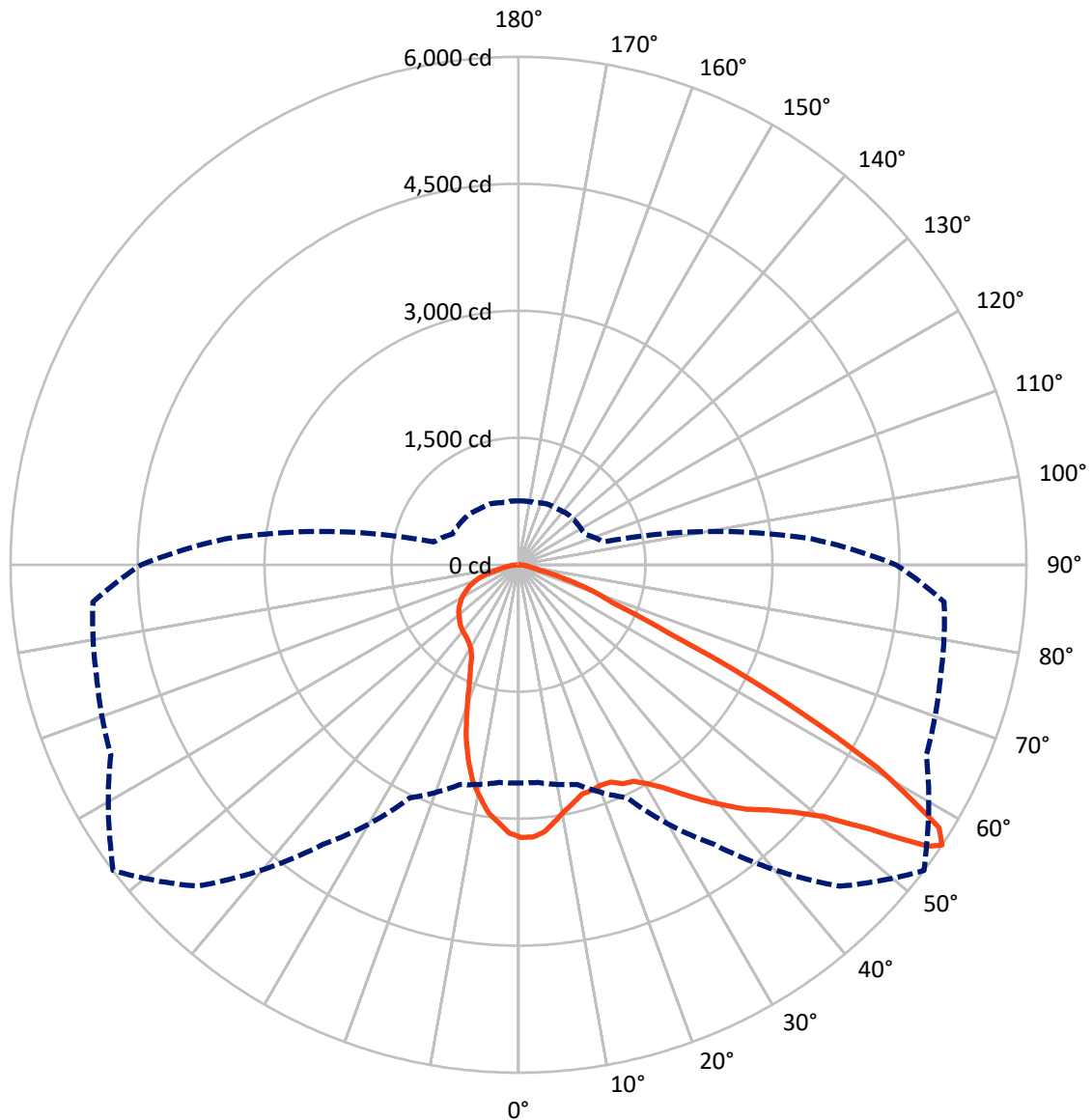
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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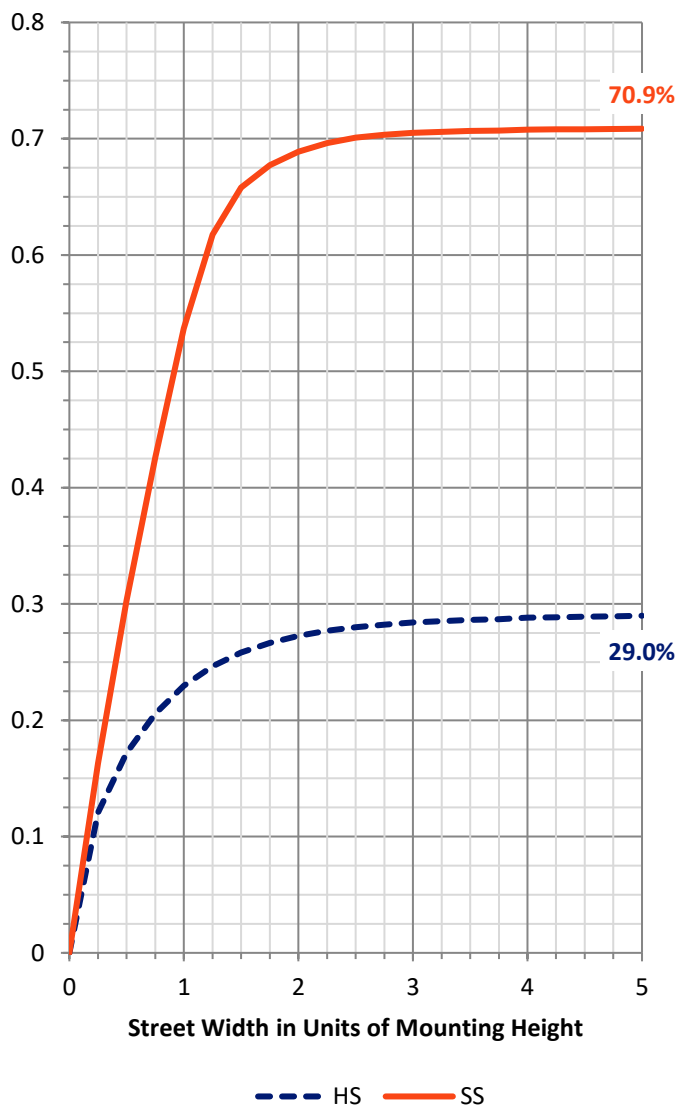
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2839.8	0.0	2839.8
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	6891.4	0.0	6891.4
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	9731.2	0.0	9731.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.0	2.9
10°-20°	711.8	7.3
20°-30°	1049.7	10.8
30°-40°	1499.8	15.4
40°-50°	2064.2	21.2
50°-60°	2439.4	25.1
60°-70°	1300.0	13.4
70°-80°	329.8	3.4
80°-90°	51.4	0.5
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°	9731.2	100.0
0°-180°	9731.2	100.0

**Coefficient of Utilization**



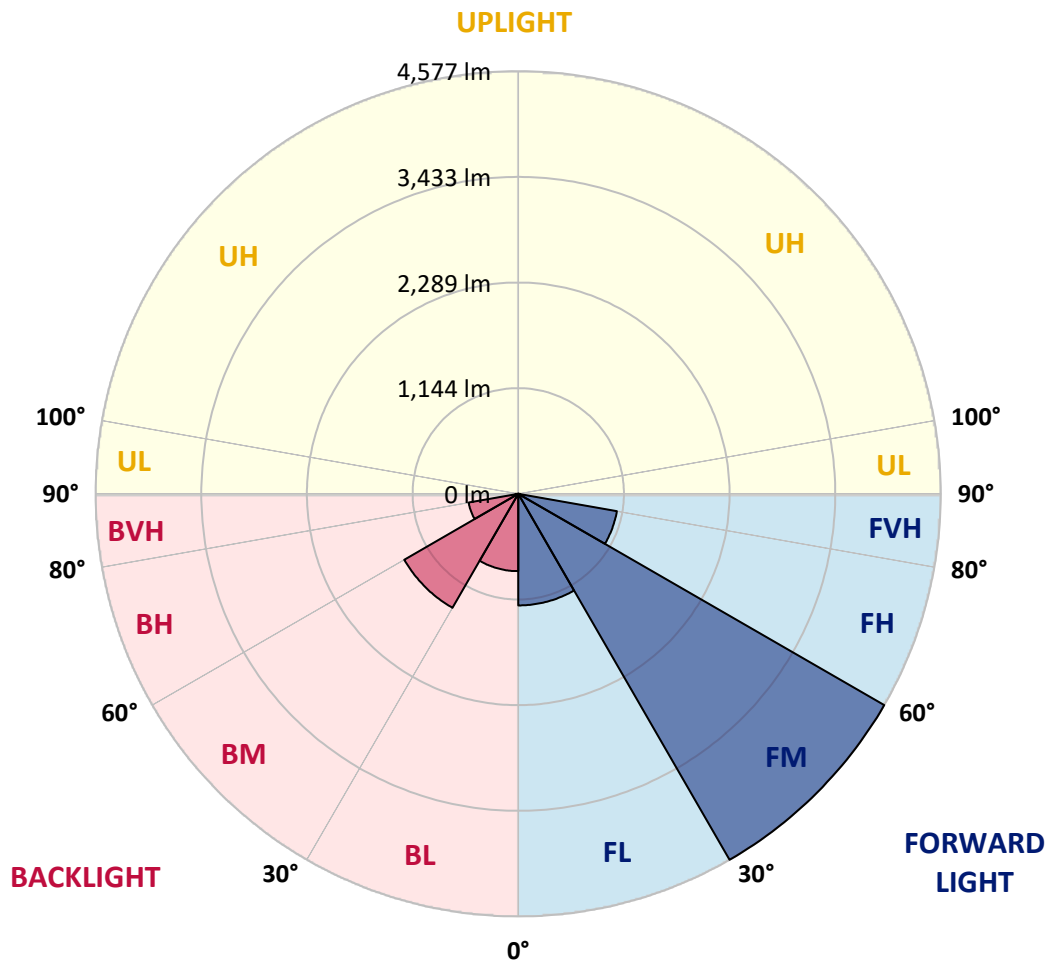
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1209.0	12.4			
FM (30°-60°)	4577.4	47.0			
FH (60°-80°)	1084.4	11.1			G1/1800
FVH (80°-90°)	20.7	0.2			G1/100
BL (0°-30°)	837.6	8.6	B2/1000		
BM (30°-60°)	1426.0	14.7	B2/2500		
BH (60°-80°)	545.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	30.8	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4
2.5°	3179.5	3152.1	3168.3	3162.1	3213.2	3228.2	3220.7	3226.9	3255.7	3242.0	3213.2
5°	2971.1	3009.8	3017.3	3035.9	3065.9	3124.6	3170.8	3183.3	3197.0	3260.6	3254.4
7.5°	2781.3	2807.5	2793.8	2848.7	2913.6	3008.5	3064.7	3074.7	3200.8	3235.7	3261.9
10°	2661.4	2635.3	2697.7	2712.6	2786.3	2894.9	2962.3	3003.5	3118.3	3256.9	3273.2
12.5°	2550.3	2541.6	2579.1	2621.5	2703.9	2816.3	2884.9	2901.1	3078.4	3224.5	3300.6
15°	2468.0	2458.0	2495.4	2526.6	2622.7	2722.7	2810.0	2856.2	3034.7	3205.7	3276.9
17.5°	2403.1	2401.8	2423.0	2479.2	2577.8	2661.4	2802.5	2805.0	3012.2	3234.5	3296.9
20°	2399.3	2398.0	2401.8	2464.2	2554.1	2656.5	2778.8	2801.3	3012.2	3214.5	3298.1
22.5°	2430.5	2410.6	2433.0	2473.0	2537.9	2665.2	2787.6	2837.4	3084.6	3313.1	3354.3
25°	2480.4	2485.4	2497.9	2511.6	2549.1	2685.1	2865.0	2906.2	3169.6	3398.0	3431.7
27.5°	2571.6	2569.1	2574.0	2581.5	2614.0	2703.9	2896.2	3002.3	3346.8	3549.0	3515.3
30°	2705.2	2696.4	2716.3	2742.6	2712.6	2763.9	2999.8	3079.7	3511.6	3701.3	3609.0
32.5°	2826.3	2858.7	2896.2	2907.4	2871.2	2881.2	3137.1	3218.3	3648.9	3888.6	3723.8
35°	2977.3	3003.5	3053.4	3088.4	3082.2	3052.2	3324.3	3431.7	3847.4	4025.9	3844.9
37.5°	3124.6	3155.8	3238.2	3341.8	3284.4	3270.6	3524.0	3612.7	3908.5	4099.5	3933.5
40°	3361.8	3360.6	3502.8	3556.5	3607.7	3584.0	3731.3	3761.3	3941.0	4083.3	3936.0
42.5°	3640.2	3622.7	3767.5	3851.1	3917.3	3919.8	3947.2	3937.2	3956.0	4000.9	3909.8
45°	3904.8	3942.3	4088.4	4238.1	4304.2	4311.8	4129.5	4110.8	3982.2	3977.2	3859.9
47.5°	4228.1	4236.9	4356.7	4553.9	4707.5	4655.0	4365.5	4324.3	4097.0	4135.8	3943.5
50°	4246.9	4311.8	4419.1	4651.3	5123.2	5109.5	4671.3	4593.9	4281.8	4360.4	4176.9
52.5°	3854.9	3839.9	3967.2	4346.7	5092.0	5561.4	5178.1	4993.4	4678.7	4618.9	4555.2
55°	2937.4	2972.3	3084.6	3467.9	4421.6	5567.6	5868.4	5717.4	5103.2	5000.8	4927.2
56°	2576.6	2581.5	2687.7	3037.2	4034.6	5369.1	5999.5	5877.2	5314.2	5158.1	5045.7
57.5°	2135.9	2107.2	2162.1	2353.1	3405.5	4949.7	5856.0	5975.8	5561.4	5327.9	5171.9
60°	1681.5	1675.3	1652.8	1687.7	2152.1	3728.8	4874.8	5144.4	5536.4	5168.1	4953.4
62.5°	1373.2	1342.0	1386.9	1436.8	1495.6	2313.2	3425.5	3584.0	4395.4	4125.8	3721.3
65°	1064.9	1049.8	1106.0	1268.3	1303.3	1469.3	1951.1	2073.5	2595.3	2549.1	2244.5
67.5°	732.8	735.3	784.0	1031.2	1208.4	1193.4	1194.6	1258.3	1354.4	1006.2	876.3
70°	464.4	463.1	489.4	664.1	972.4	982.5	932.5	913.7	866.3	524.3	555.5
72.5°	298.4	289.6	303.3	367.0	503.1	581.7	599.2	610.4	501.8	411.9	446.9
75°	168.5	159.8	154.8	171.1	198.5	229.7	252.1	259.6	290.9	312.1	330.8
77.5°	51.2	46.2	56.2	74.9	98.6	132.3	161.1	166.0	196.0	220.9	239.7
80°	22.5	25.0	35.0	50.0	69.9	93.6	113.6	121.1	141.0	159.8	164.8
82.5°	13.7	15.0	23.7	33.7	48.7	66.2	81.2	83.7	103.6	118.6	122.4
85°	5.0	6.2	12.4	19.9	31.2	42.5	42.5	46.2	42.5	42.5	46.2
87.5°	0.0	0.0	1.3	2.5	2.5	3.8	5.0	5.0	6.2	7.5	8.7
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°	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4
2.5°	3228.2	3222.0	3211.9	3175.8	3172.0	3160.8	3098.4	3088.4	3098.4	3068.4	3070.9
5°	3222.0	3240.7	3165.8	3129.6	3062.2	3013.5	2957.3	2928.6	2877.4	2844.9	2881.2
7.5°	3249.5	3242.0	3148.3	3069.6	2968.6	2844.9	2746.4	2690.2	2600.3	2575.3	2594.1
10°	3239.4	3199.5	3089.7	2986.1	2795.1	2686.4	2526.6	2371.9	2286.9	2243.3	2237.1
12.5°	3225.7	3214.5	3031.0	2852.4	2651.5	2423.0	2198.3	2052.3	1913.7	1853.8	1862.6
15°	3242.0	3147.1	2921.1	2695.2	2428.1	2128.4	1886.3	1697.7	1601.6	1562.9	1562.9
17.5°	3234.5	3114.6	2868.7	2519.1	2180.9	1826.3	1560.4	1446.9	1406.9	1406.9	1418.1
20°	3238.2	3135.8	2762.6	2343.1	1888.7	1537.9	1344.4	1303.3	1320.7	1327.0	1333.2
22.5°	3259.4	3065.9	2659.0	2149.7	1617.8	1315.7	1220.9	1222.1	1253.3	1287.1	1280.8
25°	3285.6	3038.4	2532.8	1957.4	1410.6	1207.2	1177.1	1173.4	1197.2	1214.7	1217.1
27.5°	3263.2	2991.0	2404.3	1717.7	1240.8	1134.8	1128.5	1131.0	1138.5	1173.4	1162.2
30°	3336.8	3004.7	2243.3	1516.7	1147.2	1111.0	1103.6	1099.8	1111.0	1121.0	1112.3
32.5°	3427.9	2956.0	2123.4	1323.2	1101.0	1093.6	1078.6	1073.5	1079.8	1069.8	1074.8
35°	3467.9	2947.4	1967.4	1184.6	1064.9	1058.6	1049.8	1048.6	1049.8	1041.1	1033.6
37.5°	3490.3	2988.5	1788.9	1121.0	1042.3	1048.6	1028.6	1026.1	1003.6	1008.7	1012.4
40°	3529.1	2924.8	1644.1	1059.8	1028.6	1016.2	998.7	994.9	979.9	971.2	979.9
42.5°	3472.9	2906.2	1501.8	1033.6	1008.7	994.9	982.5	961.3	956.2	948.7	943.8
45°	3427.9	2798.8	1374.4	1001.1	985.0	977.4	953.7	931.2	912.6	920.1	908.8
47.5°	3461.6	2761.3	1248.4	973.7	952.5	943.8	920.1	902.6	883.8	875.1	872.6
50°	3596.5	2831.2	1142.2	953.7	925.0	920.1	888.9	868.8	851.3	845.1	847.6
52.5°	3918.6	3022.2	1069.8	912.6	898.8	876.3	858.8	833.9	822.7	802.7	815.2
55°	4326.8	3333.1	1051.1	873.8	866.3	846.4	822.7	803.9	782.7	766.5	762.7
56°	4457.8	3481.7	1036.1	858.8	846.4	835.1	803.9	792.7	759.0	755.2	752.8
57.5°	4563.9	3612.7	1038.6	830.2	817.7	807.7	788.9	761.5	739.0	725.3	731.5
60°	4324.3	3381.7	991.2	786.4	784.0	765.2	739.0	726.5	699.0	682.8	679.1
62.5°	3214.5	2295.7	803.9	730.2	729.1	709.0	679.1	665.4	660.4	637.9	637.9
65°	1851.3	1439.4	695.3	684.1	674.1	654.1	624.2	612.9	600.5	593.0	586.7
67.5°	790.2	746.5	631.7	630.4	619.1	594.3	564.2	546.7	530.5	515.5	523.0
70°	573.0	581.7	570.5	564.2	550.5	519.3	493.1	471.9	446.9	436.9	444.4
72.5°	454.4	473.1	489.4	490.6	474.4	438.2	409.5	380.7	353.3	339.5	345.8
75°	344.6	357.0	373.2	377.0	353.3	328.3	300.8	270.9	249.7	233.5	235.9
77.5°	248.4	245.9	260.9	258.4	247.2	229.7	204.7	177.3	153.6	138.6	139.8
80°	169.8	173.5	182.2	181.0	167.3	156.0	137.3	114.9	97.4	84.9	82.4
82.5°	118.6	124.8	132.3	126.1	114.9	103.6	89.9	73.7	59.9	50.0	47.4
85°	42.5	48.7	56.2	59.9	63.7	61.1	51.2	41.2	29.9	25.0	23.7
87.5°	8.7	10.0	11.3	11.3	11.3	10.0	8.7	8.7	7.5	3.8	3.8
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)