

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: P452111

Luminaire Tested: **GALN-SA3A-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452111
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-SA3A-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 13627 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

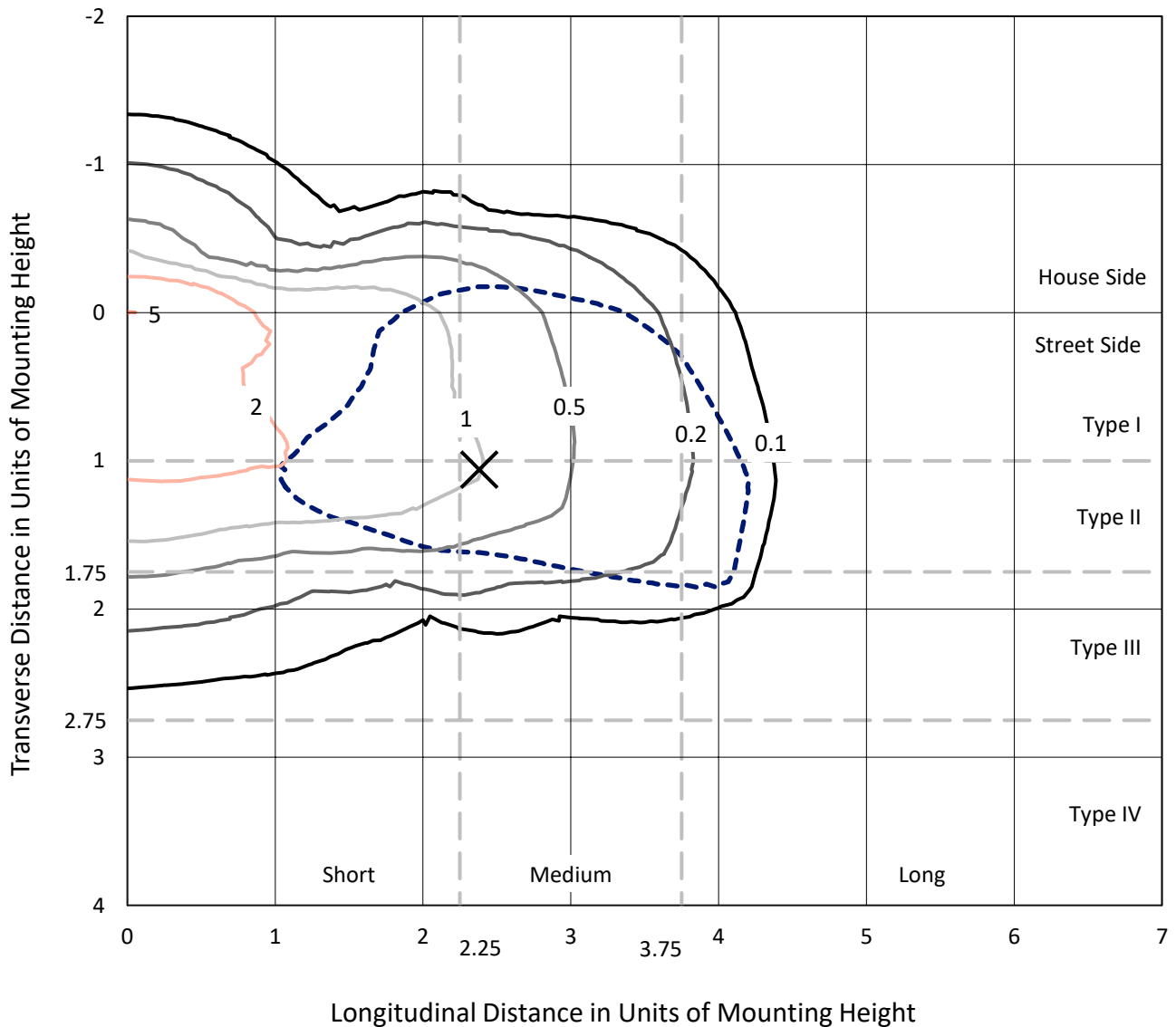
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

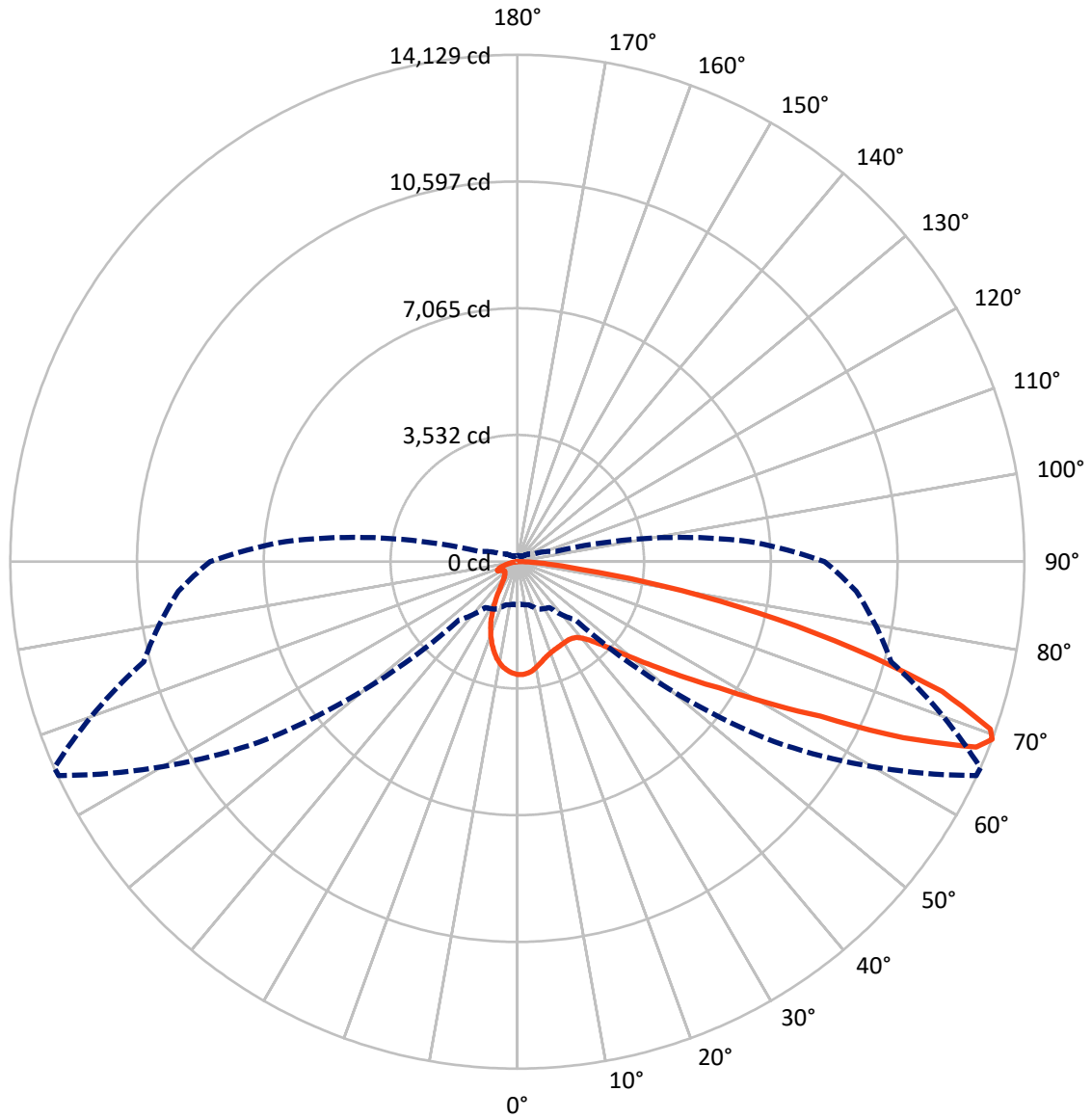
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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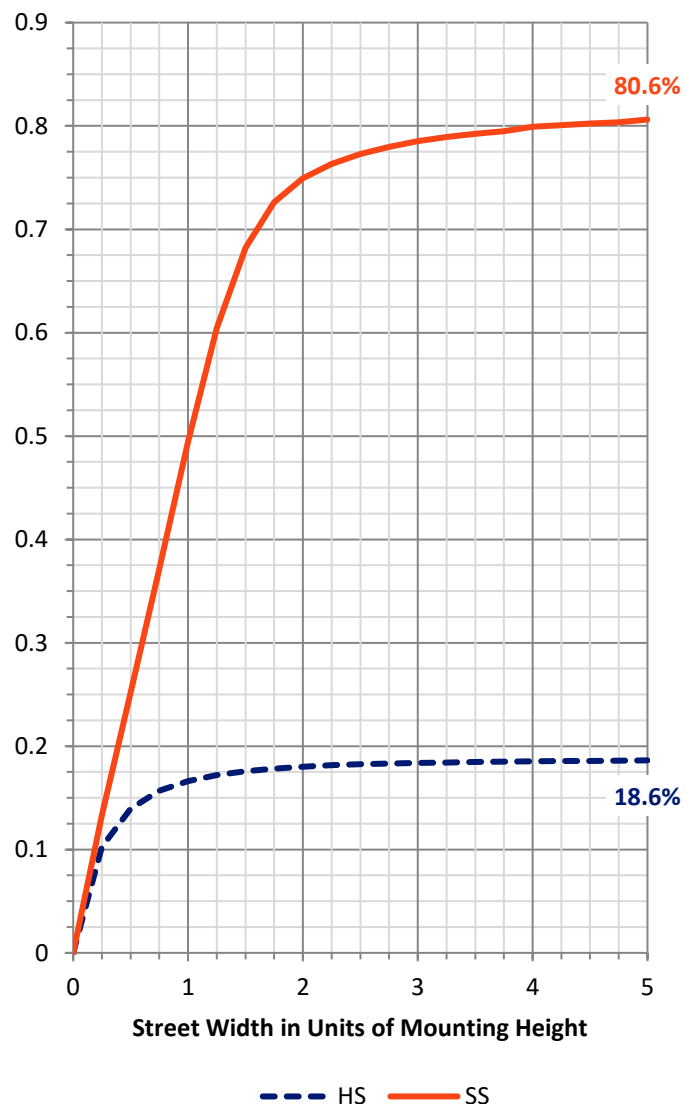
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2562.7	0.0	2562.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11064.3	0.0	11064.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	13627.0	0.0	13627.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.3	2.0
10°-20°	648.2	4.8
20°-30°	882.4	6.5
30°-40°	1185.8	8.7
40°-50°	1770.5	13.0
50°-60°	2816.3	20.7
60°-70°	3463.9	25.4
70°-80°	2253.8	16.5
80°-90°	332.8	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°	13627.0	100.0
0°-180°	13627.0	100.0



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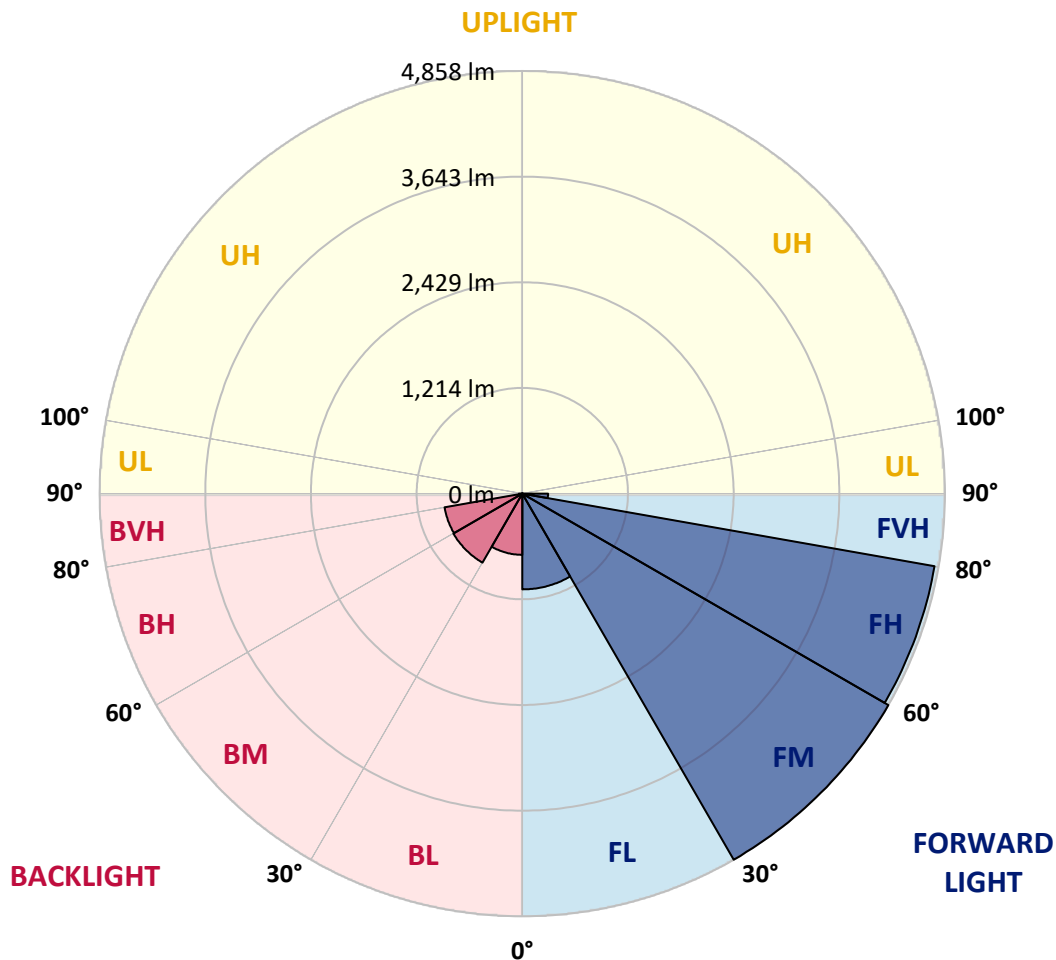
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1100.4	8.1			
FM	(30°-60°)	4857.6	35.6			
FH	(60°-80°)	4810.4	35.3			G2/5000
FVH	(80°-90°)	295.9	2.2			G3/500
BL	(0°-30°)	703.5	5.2	B2/1000		
BM	(30°-60°)	915.0	6.7	B1/1000		
BH	(60°-80°)	907.3	6.7	B2/1000		G2/1000
BVH	(80°-90°)	36.9	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°	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9
2.5°	3036.7	3048.7	3062.3	3077.4	3106.1	3121.9	3133.3	3146.1	3147.6	3154.4	3149.1
5°	2812.5	2826.9	2847.3	2875.9	2919.0	2986.1	3055.5	3112.1	3118.9	3150.6	3159.7
7.5°	2625.4	2633.7	2650.3	2696.3	2757.5	2832.2	2933.3	3048.0	3064.6	3140.1	3166.5
10°	2473.0	2481.3	2500.9	2548.4	2608.8	2702.4	2813.3	2964.2	2977.8	3107.6	3168.0
12.5°	2359.0	2366.6	2387.7	2434.5	2503.9	2591.4	2713.7	2873.7	2893.3	3064.6	3153.6
15°	2272.2	2286.6	2303.9	2342.4	2415.6	2500.1	2618.6	2790.7	2806.5	3019.3	3143.8
17.5°	2235.2	2242.0	2254.1	2289.6	2343.2	2426.2	2545.4	2725.8	2744.6	2987.6	3141.6
20°	2236.8	2243.5	2245.8	2265.4	2303.9	2375.6	2493.3	2674.4	2697.1	2959.7	3145.3
22.5°	2288.1	2288.8	2280.5	2273.7	2288.8	2348.4	2456.4	2636.0	2662.4	2947.6	3148.4
25°	2367.3	2380.9	2368.8	2337.1	2309.2	2337.9	2442.0	2614.8	2639.7	2930.3	3144.6
27.5°	2495.6	2497.9	2488.1	2445.0	2372.6	2351.5	2436.0	2599.0	2620.1	2917.4	3125.7
30°	2667.7	2660.9	2651.8	2604.3	2490.3	2403.5	2448.8	2584.6	2606.5	2898.6	3103.1
32.5°	2842.0	2863.1	2854.8	2799.0	2651.1	2504.7	2490.3	2583.1	2601.2	2884.2	3078.2
35°	3026.9	3036.7	3075.9	3047.2	2895.6	2668.4	2568.0	2606.5	2620.9	2885.0	3060.8
37.5°	3171.8	3198.2	3290.2	3315.1	3172.5	2885.0	2694.1	2672.9	2679.0	2922.0	3067.6
40°	3346.8	3392.1	3510.6	3612.5	3518.9	3166.5	2908.4	2795.9	2803.5	3011.0	3112.1
42.5°	3568.7	3600.4	3759.6	3897.7	3882.6	3538.5	3168.0	2997.4	3001.2	3188.4	3236.7
45°	3828.3	3873.6	4052.4	4259.9	4295.4	3959.6	3543.0	3302.3	3300.0	3463.8	3469.1
47.5°	4160.3	4188.3	4365.6	4592.0	4735.4	4488.6	3998.1	3740.0	3715.9	3865.3	3822.3
50°	4466.0	4509.7	4644.1	4891.6	5248.5	5108.2	4596.5	4307.5	4250.9	4390.5	4318.1
52.5°	4594.3	4640.3	4753.5	5060.6	5688.5	5909.6	5356.4	4984.4	4890.1	4997.2	4970.8
55°	4371.6	4431.3	4536.9	4910.4	5881.7	6834.0	6381.2	5767.0	5698.3	5652.3	5659.8
57.5°	3773.2	3829.8	3972.4	4384.5	5650.8	7504.9	7844.5	6772.9	6625.7	6413.7	6449.9
60°	2872.2	2907.6	2981.6	3438.1	4966.3	7679.2	9506.2	8044.5	7950.9	7172.1	7197.8
62.5°	2039.8	2079.8	2131.1	2359.0	3635.9	7188.0	10807.2	9820.1	9485.8	7957.7	7932.8
65°	1656.4	1629.3	1691.2	1797.6	2133.4	5570.8	11100.0	12284.8	11824.5	8992.3	8646.7
67.5°	1362.1	1333.5	1394.6	1584.0	1622.5	3233.6	10045.0	13884.6	13792.6	10117.5	9371.9
69°	1205.9	1190.8	1244.4	1460.2	1557.6	2296.4	8750.8	14107.3	14129.1	10780.8	9483.6
70°	1086.7	1092.7	1144.8	1397.6	1528.1	1893.4	7479.2	13800.1	13985.8	11112.1	9362.8
72.5°	799.9	812.7	885.2	1157.6	1500.2	1606.6	4450.9	12053.9	12382.1	11131.7	8565.2
75°	559.2	553.2	617.3	871.6	1417.2	1592.3	2614.1	9322.1	9694.1	9621.7	7197.0
77.5°	366.0	375.8	427.1	615.8	1192.3	1580.2	1704.0	6613.7	6855.2	6434.8	4256.9
80°	258.1	257.3	286.0	420.3	884.4	1518.3	1395.3	4168.6	4107.5	2528.8	1262.5
82.5°	147.9	158.5	191.7	295.8	591.6	1336.5	1283.6	1993.8	1820.2	720.7	426.4
85°	82.3	86.0	114.0	178.8	345.6	1006.7	1120.6	907.1	855.8	301.1	183.4
87.5°	26.4	28.7	47.5	90.6	157.0	475.4	634.7	418.8	386.4	108.7	74.0
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°	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9
2.5°	3151.4	3160.4	3136.3	3112.9	3091.8	3062.3	3035.9	3014.0	2998.9	2996.7	2989.1
5°	3161.9	3162.7	3116.7	3054.8	2994.4	2928.0	2859.3	2810.3	2764.2	2738.6	2725.8
7.5°	3169.5	3162.7	3079.7	2979.3	2863.1	2742.4	2621.6	2525.0	2450.3	2420.9	2432.2
10°	3166.5	3145.3	3023.8	2863.1	2694.1	2513.7	2340.1	2204.3	2079.8	2015.6	2017.2
12.5°	3149.9	3115.2	2940.8	2732.6	2484.3	2242.8	1977.2	1793.8	1649.6	1564.4	1538.0
15°	3135.5	3075.2	2843.5	2555.2	2246.6	1901.7	1578.0	1351.6	1230.8	1163.7	1162.9
17.5°	3120.4	3036.7	2737.1	2367.3	1973.4	1529.7	1190.1	1017.3	960.7	967.4	956.1
20°	3104.6	2991.4	2626.2	2158.3	1640.6	1141.0	891.2	821.0	836.9	867.8	872.4
22.5°	3086.5	2943.1	2506.9	1928.1	1290.4	858.8	722.9	712.4	753.1	801.4	808.2
25°	3058.6	2882.7	2356.7	1687.4	995.4	692.0	633.1	640.7	680.7	721.4	726.0
27.5°	3019.3	2808.0	2205.1	1387.0	747.8	593.9	578.8	588.6	608.2	633.1	639.2
30°	2966.5	2723.5	2030.7	1127.4	599.2	544.9	538.8	544.1	555.4	566.0	569.0
32.5°	2913.7	2642.0	1854.9	863.3	534.3	512.4	506.4	506.4	506.4	507.9	508.6
35°	2864.6	2565.0	1666.2	672.4	500.3	486.7	478.4	469.4	467.9	462.6	462.6
37.5°	2837.5	2494.8	1465.5	563.0	475.4	465.6	454.3	439.2	430.9	431.7	430.1
40°	2842.7	2448.8	1282.9	501.1	455.0	444.5	427.1	409.8	404.5	404.5	403.0
42.5°	2902.3	2433.7	1107.8	468.6	435.4	423.4	401.5	385.6	382.6	381.8	383.4
45°	3039.7	2470.7	950.8	447.5	418.8	400.7	378.8	364.5	361.5	361.5	360.7
47.5°	3307.6	2590.7	838.4	433.9	406.8	383.4	360.7	346.4	341.1	339.6	339.6
50°	3724.2	2851.0	754.6	421.8	391.7	367.5	344.1	327.5	319.2	318.5	317.7
52.5°	4303.0	3257.0	722.2	412.8	375.1	350.9	325.3	309.4	298.8	296.6	295.1
55°	4979.9	3823.8	766.7	406.0	357.7	332.0	305.6	289.0	279.2	274.7	273.9
57.5°	5763.9	4504.5	935.8	396.9	341.9	311.7	286.0	269.4	258.8	253.6	252.1
60°	6468.0	5204.0	1230.8	391.7	328.3	289.8	263.4	248.3	238.5	233.2	232.4
62.5°	7241.5	5871.1	1583.2	406.0	322.2	268.7	242.2	228.7	220.4	215.1	215.1
65°	8067.9	6539.0	1816.4	454.3	331.3	252.1	219.6	208.3	200.7	197.0	196.2
67.5°	8624.8	6769.9	1496.5	504.1	353.9	233.9	197.7	188.7	184.1	180.4	180.4
69°	8564.4	6477.8	1104.0	516.9	360.7	224.9	185.6	178.8	172.8	171.3	169.8
70°	8373.5	6145.0	925.2	508.6	355.4	216.6	178.1	169.8	164.5	163.0	162.2
72.5°	7458.1	5329.3	689.0	442.2	302.6	187.9	157.7	150.2	145.6	143.4	143.4
75°	6196.4	4355.8	538.1	351.7	237.0	158.5	135.1	129.0	125.3	123.8	123.0
77.5°	3472.9	2432.2	386.4	275.4	179.6	128.3	113.2	107.9	104.1	102.6	102.6
80°	967.4	695.0	227.1	181.9	122.3	97.3	89.8	86.0	80.7	77.0	79.2
82.5°	364.5	301.1	129.8	109.4	77.7	64.9	62.6	59.6	57.4	52.1	52.1
85°	177.3	146.4	83.0	58.1	43.0	34.0	32.4	30.9	29.4	25.7	26.4
87.5°	61.1	64.9	36.2	21.1	12.8	8.3	6.8	3.8	3.8	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)