

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: P452285

Luminaire Tested: **GALN-SA3B-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452285
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-SA3B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 14180 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

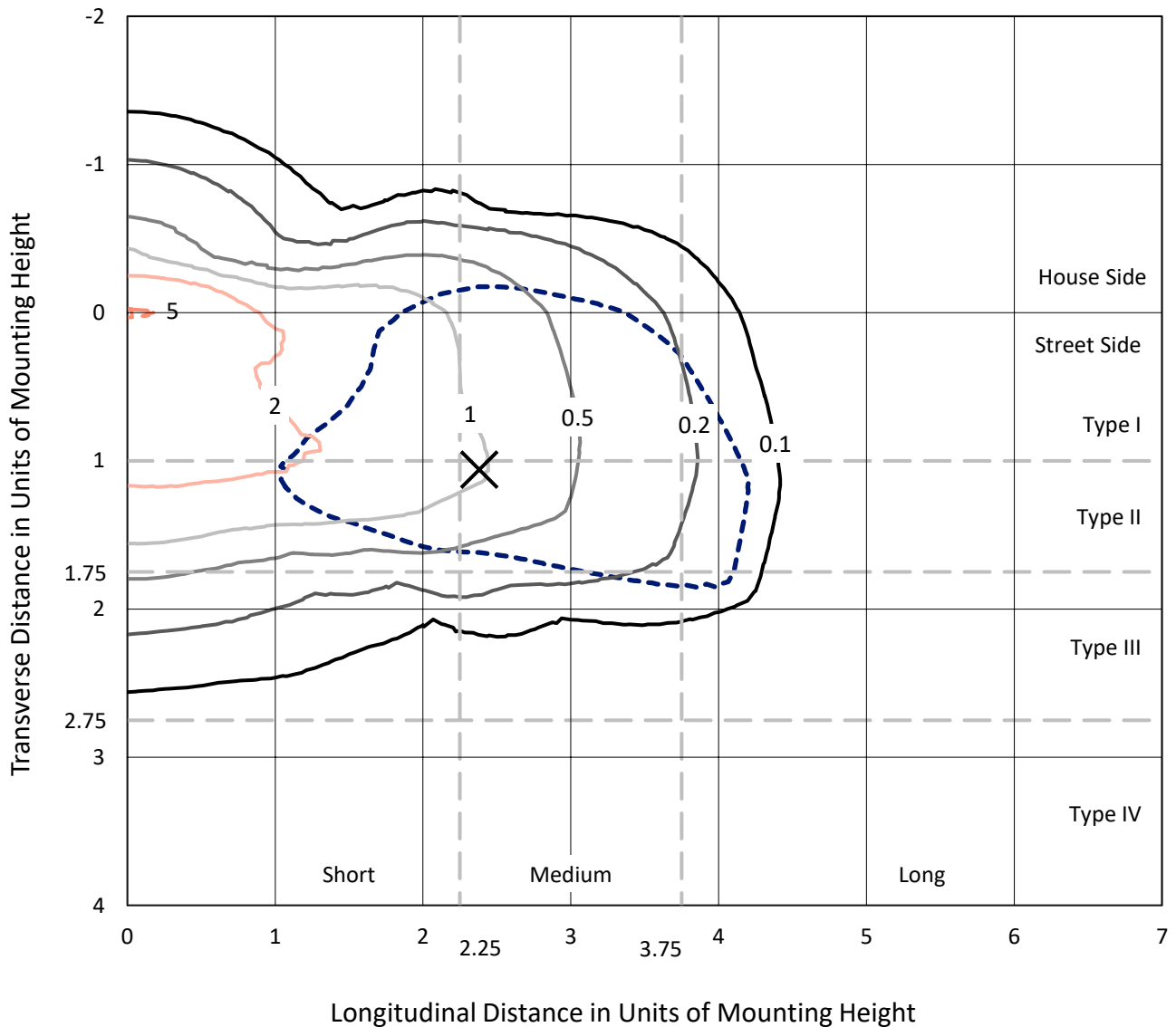
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

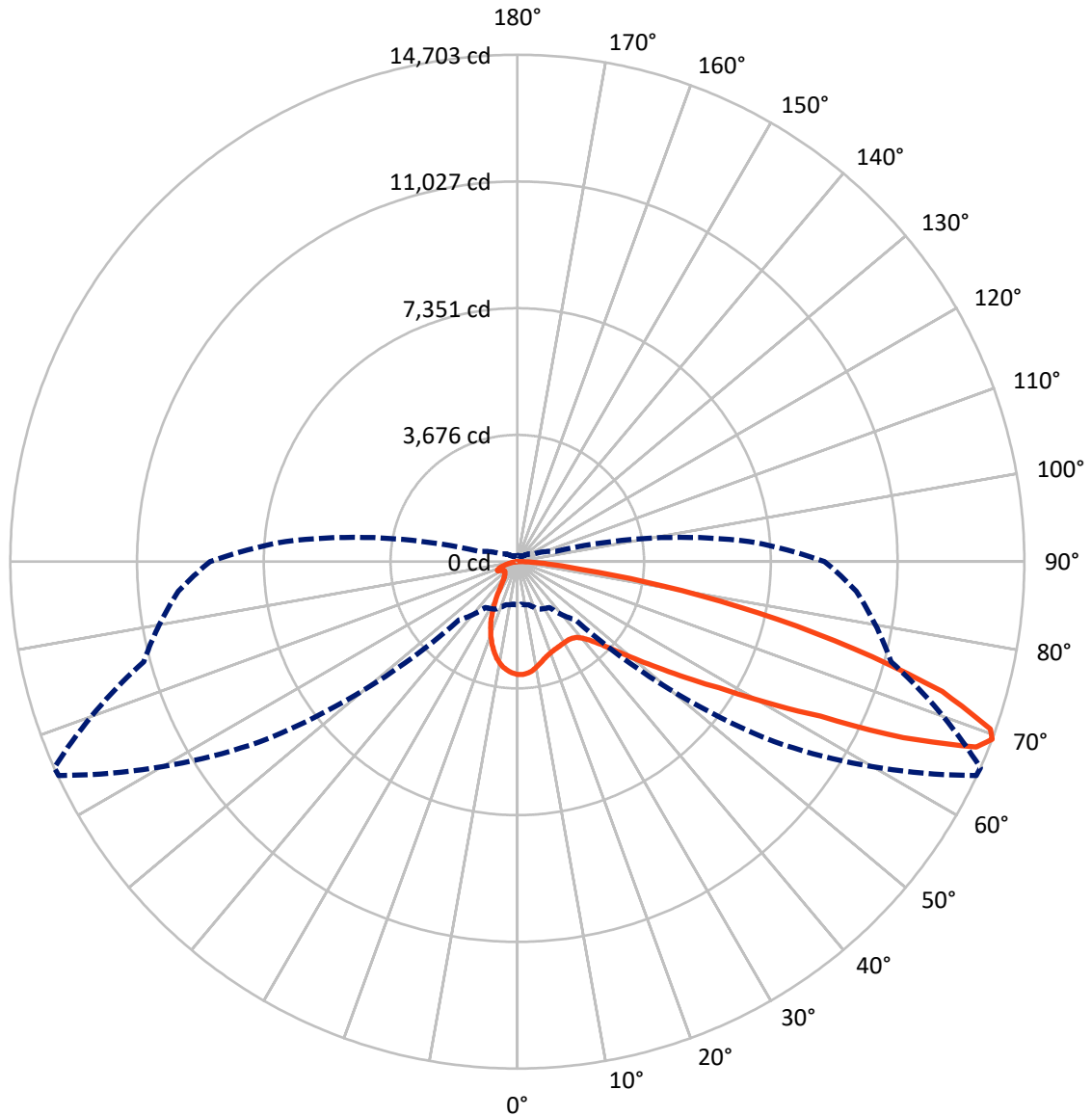
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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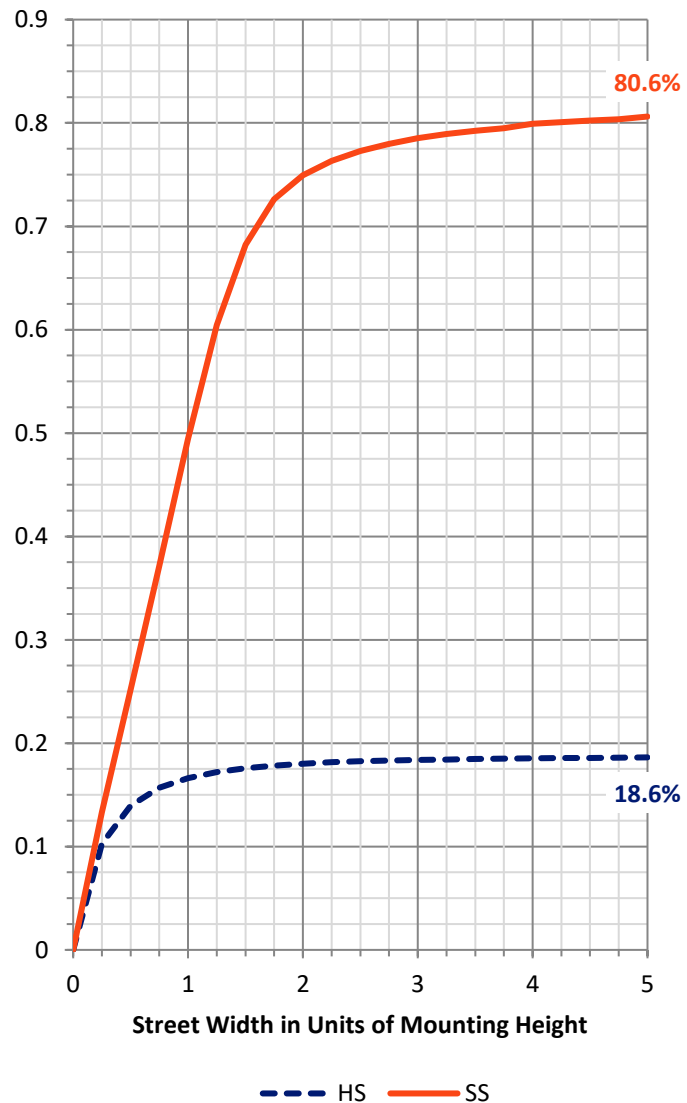
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2666.7	0.0	2666.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11513.3	0.0	11513.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	14180.0	0.0	14180.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	2.0
10°-20°	674.5	4.8
20°-30°	918.2	6.5
30°-40°	1233.9	8.7
40°-50°	1842.4	13.0
50°-60°	2930.6	20.7
60°-70°	3604.5	25.4
70°-80°	2345.3	16.5
80°-90°	346.3	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°	14180.0	100.0
0°-180°	14180.0	100.0



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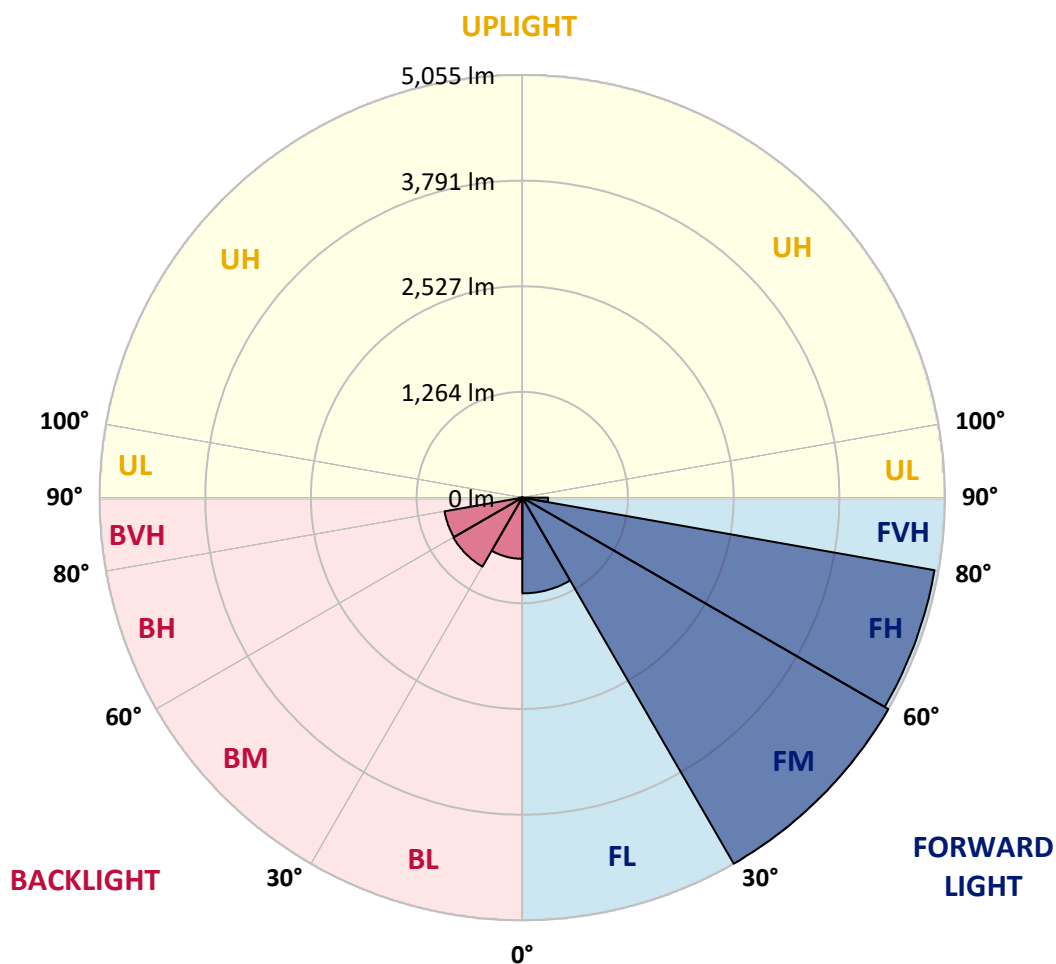
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1145.0	8.1			
FM	(30°-60°)	5054.7	35.6			
FH	(60°-80°)	5005.6	35.3			G3/7500
FVH	(80°-90°)	307.9	2.2			G3/500
BL	(0°-30°)	732.0	5.2	B2/1000		
BM	(30°-60°)	952.1	6.7	B1/1000		
BH	(60°-80°)	944.1	6.7	B2/1000		G2/1000
BVH	(80°-90°)	38.4	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°	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6
2.5°	3159.9	3172.5	3186.6	3202.3	3232.2	3248.6	3260.4	3273.8	3275.3	3282.4	3276.9
5°	2926.7	2941.6	2962.8	2992.6	3037.4	3107.3	3179.5	3238.4	3245.5	3278.5	3287.9
7.5°	2731.9	2740.6	2757.9	2805.8	2869.4	2947.1	3052.3	3171.7	3189.0	3267.5	3295.0
10°	2573.3	2582.0	2602.4	2651.8	2714.7	2812.0	2927.5	3084.5	3098.7	3233.7	3296.5
12.5°	2454.7	2462.6	2484.6	2533.3	2605.5	2696.6	2823.8	2990.3	3010.7	3189.0	3281.6
15°	2364.4	2379.4	2397.4	2437.5	2513.6	2601.6	2724.9	2903.9	2920.4	3141.8	3271.4
17.5°	2326.0	2333.0	2345.6	2382.5	2438.2	2524.6	2648.7	2836.4	2856.0	3108.9	3269.1
20°	2327.5	2334.6	2336.9	2357.4	2397.4	2472.0	2594.5	2783.0	2806.5	3079.8	3273.0
22.5°	2380.9	2381.7	2373.1	2366.0	2381.7	2443.7	2556.0	2742.9	2770.4	3067.2	3276.1
25°	2463.4	2477.5	2464.9	2432.0	2402.9	2432.8	2541.1	2720.9	2746.9	3049.2	3272.2
27.5°	2596.9	2599.2	2589.0	2544.3	2468.9	2446.9	2534.8	2704.5	2726.4	3035.8	3252.6
30°	2775.9	2768.8	2759.4	2710.0	2591.4	2501.1	2548.2	2689.5	2712.3	3016.2	3229.0
32.5°	2957.3	2979.3	2970.7	2912.5	2758.6	2606.3	2591.4	2688.0	2706.8	3001.3	3203.1
35°	3149.7	3159.9	3200.7	3170.9	3013.1	2776.7	2672.3	2712.3	2727.2	3002.1	3185.0
37.5°	3300.5	3328.0	3423.8	3449.7	3301.3	3002.1	2803.4	2781.4	2787.7	3040.5	3192.1
40°	3482.7	3529.8	3653.1	3759.1	3661.7	3295.0	3026.4	2909.4	2917.3	3133.2	3238.4
42.5°	3713.5	3746.5	3912.2	4055.9	4040.2	3682.1	3296.5	3119.1	3123.0	3317.7	3368.0
45°	3983.7	4030.8	4216.9	4432.8	4469.7	4120.3	3686.8	3436.3	3434.0	3604.4	3609.9
47.5°	4329.2	4358.2	4542.8	4778.3	4927.5	4670.8	4160.3	3891.8	3866.6	4022.1	3977.4
50°	4647.2	4692.7	4832.5	5090.1	5461.5	5315.5	4783.1	4482.3	4423.4	4568.7	4493.3
52.5°	4780.7	4828.6	4946.4	5266.0	5919.3	6149.4	5573.8	5186.7	5088.5	5200.0	5172.5
55°	4549.0	4611.1	4721.0	5109.7	6120.4	7111.4	6640.2	6001.0	5929.5	5881.6	5889.5
57.5°	3926.3	3985.2	4133.6	4562.4	5880.1	7809.5	8162.8	7047.8	6894.6	6674.0	6711.7
60°	2988.7	3025.6	3102.6	3577.7	5167.8	7990.9	9892.0	8370.9	8273.6	7463.2	7489.9
62.5°	2122.6	2164.2	2217.6	2454.7	3783.4	7479.7	11245.8	10218.7	9870.8	8280.6	8254.7
65°	1723.7	1695.4	1759.8	1870.5	2219.9	5796.8	11550.5	12783.3	12304.3	9357.2	8997.6
67.5°	1417.4	1387.6	1451.2	1648.3	1688.3	3364.9	10452.7	14448.1	14352.3	10528.1	9752.2
69°	1254.9	1239.1	1294.9	1519.5	1620.8	2389.6	9105.9	14679.7	14702.5	11218.3	9868.4
70°	1130.8	1137.1	1191.2	1454.3	1590.2	1970.2	7782.8	14360.1	14553.3	11563.0	9742.8
72.5°	832.4	845.7	921.1	1204.6	1561.1	1671.8	4631.5	12543.0	12884.6	11583.4	8912.8
75°	581.9	575.6	642.3	907.0	1474.7	1656.9	2720.2	9700.4	10087.5	10012.1	7489.1
77.5°	380.9	391.1	444.5	640.8	1240.7	1644.3	1773.1	6882.1	7133.3	6696.0	4429.7
80°	268.6	267.8	297.6	437.4	920.3	1580.0	1452.0	4337.8	4274.2	2631.4	1313.7
82.5°	153.9	164.9	199.5	307.8	615.6	1390.7	1335.7	2074.7	1894.1	749.9	443.7
85°	85.6	89.5	118.6	186.1	359.7	1047.5	1166.1	943.9	890.5	313.3	190.8
87.5°	27.5	29.8	49.5	94.2	163.3	494.7	660.4	435.8	402.1	113.1	77.0
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°	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6	3274.6
2.5°	3279.3	3288.7	3263.6	3239.2	3217.2	3186.6	3159.1	3136.3	3120.6	3118.3	3110.4
5°	3290.3	3291.0	3243.1	3178.8	3115.9	3046.8	2975.4	2924.3	2876.4	2849.7	2836.4
7.5°	3298.1	3291.0	3204.7	3100.2	2979.3	2853.7	2728.0	2627.5	2549.8	2519.1	2530.9
10°	3295.0	3273.0	3146.6	2979.3	2803.4	2615.7	2435.1	2293.8	2164.2	2097.4	2099.0
12.5°	3277.7	3241.6	3060.2	2843.4	2585.1	2333.8	2057.4	1866.6	1716.6	1627.9	1600.4
15°	3262.8	3200.0	2958.9	2658.9	2337.7	1978.9	1642.0	1406.4	1280.8	1210.9	1210.1
17.5°	3247.1	3159.9	2848.2	2463.4	2053.5	1591.7	1238.4	1058.5	999.6	1006.7	994.9
20°	3230.6	3112.8	2732.7	2245.9	1707.2	1187.3	927.4	854.4	870.9	903.1	907.8
22.5°	3211.7	3062.5	2608.7	2006.4	1342.8	893.6	752.3	741.3	783.7	834.0	841.0
25°	3182.7	2999.7	2452.4	1755.9	1035.8	720.1	658.8	666.7	708.3	750.7	755.4
27.5°	3141.8	2922.0	2294.5	1443.3	778.2	618.0	602.3	612.5	632.9	658.8	665.1
30°	3086.9	2834.0	2113.1	1173.2	623.5	567.0	560.7	566.2	578.0	588.9	592.1
32.5°	3031.9	2749.2	1930.2	898.3	556.0	533.2	526.9	526.9	526.9	528.5	529.3
35°	2980.9	2669.1	1733.9	699.7	520.6	506.5	497.9	488.4	486.9	481.4	481.4
37.5°	2952.6	2596.1	1525.0	585.8	494.7	484.5	472.7	457.0	448.4	449.2	447.6
40°	2958.1	2548.2	1335.0	521.4	473.5	462.5	444.5	426.4	420.9	420.9	419.3
42.5°	3020.1	2532.5	1152.8	487.6	453.1	440.5	417.8	401.3	398.1	397.3	398.9
45°	3163.0	2571.0	989.4	465.7	435.8	417.0	394.2	379.3	376.1	376.1	375.4
47.5°	3441.8	2695.8	872.4	451.5	423.3	398.9	375.4	360.4	354.9	353.4	353.4
50°	3875.3	2966.7	785.3	439.0	407.6	382.4	358.1	340.8	332.2	331.4	330.6
52.5°	4477.6	3389.2	751.5	429.5	390.3	365.1	338.4	322.0	311.0	308.6	307.0
55°	5182.0	3978.9	797.8	422.5	372.2	345.5	318.0	300.8	290.5	285.8	285.1
57.5°	5997.9	4687.2	973.7	413.0	355.7	324.3	297.6	280.3	269.3	263.8	262.3
60°	6730.5	5415.2	1280.8	407.6	341.6	301.5	274.1	258.4	248.1	242.6	241.9
62.5°	7535.4	6109.4	1647.5	422.5	335.3	279.6	252.1	237.9	229.3	223.8	223.8
65°	8395.3	6804.3	1890.1	472.7	344.7	262.3	228.5	216.7	208.9	205.0	204.2
67.5°	8974.8	7044.6	1557.2	524.6	368.3	243.4	205.7	196.3	191.6	187.7	187.7
69°	8912.0	6740.7	1148.8	537.9	375.4	234.0	193.2	186.1	179.8	178.3	176.7
70°	8713.3	6394.4	962.7	529.3	369.9	225.4	185.3	176.7	171.2	169.6	168.8
72.5°	7760.8	5545.5	716.9	460.2	314.9	195.5	164.1	156.3	151.6	149.2	149.2
75°	6447.8	4532.6	559.9	365.9	246.6	164.9	140.6	134.3	130.4	128.8	128.0
77.5°	3613.8	2530.9	402.1	286.6	186.9	133.5	117.8	112.3	108.4	106.8	106.8
80°	1006.7	723.2	236.4	189.2	127.2	101.3	93.4	89.5	84.0	80.1	82.5
82.5°	379.3	313.3	135.1	113.9	80.9	67.5	65.2	62.0	59.7	54.2	54.2
85°	184.5	152.3	86.4	60.5	44.8	35.3	33.8	32.2	30.6	26.7	27.5
87.5°	63.6	67.5	37.7	22.0	13.3	8.6	7.1	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)