

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: P528097

Luminaire Tested: **GALN-SA3A-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8092 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

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



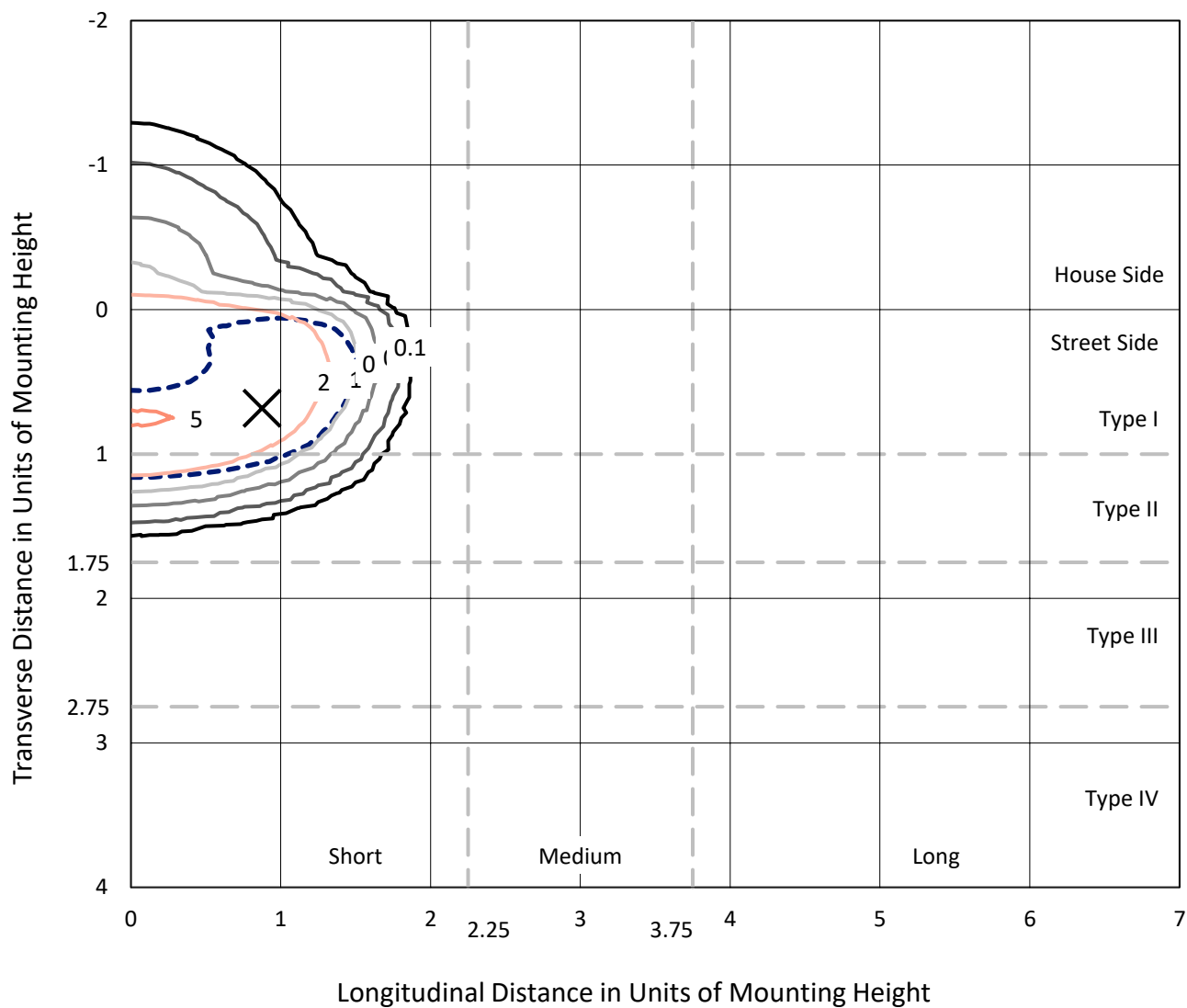
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

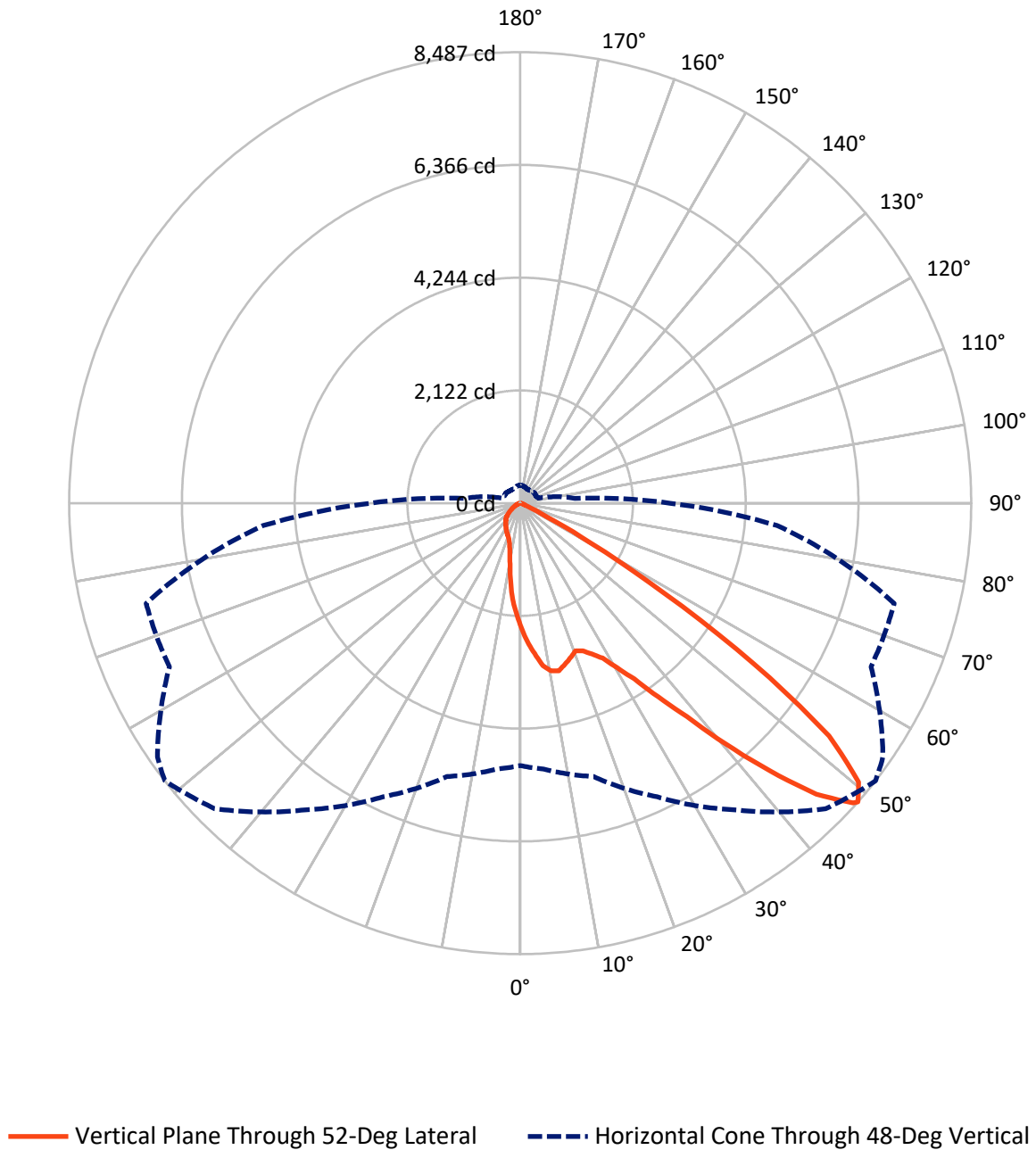


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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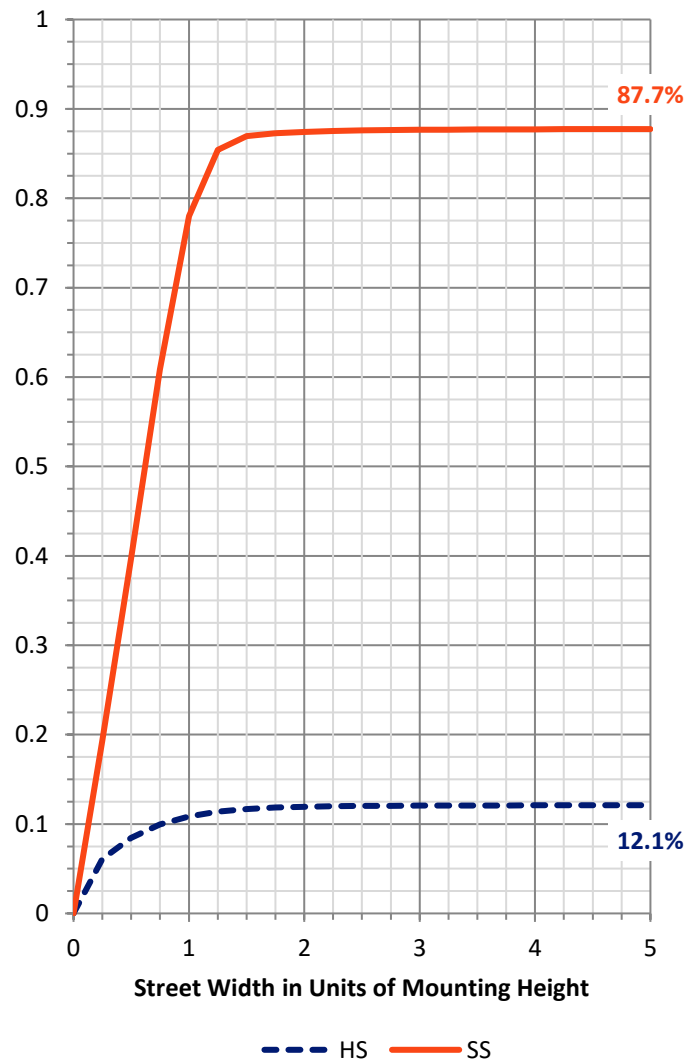
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	985.3	0.0	985.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7106.7	0.0	7106.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	8092.0	0.0	8092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	2.6
10°-20°	559.0	6.9
20°-30°	954.4	11.8
30°-40°	1757.5	21.7
40°-50°	2729.4	33.7
50°-60°	1642.6	20.3
60°-70°	190.0	2.3
70°-80°	36.8	0.5
80°-90°	8.5	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°	8092.0	100.0
0°-180°	8092.0	100.0

Coefficient of Utilization



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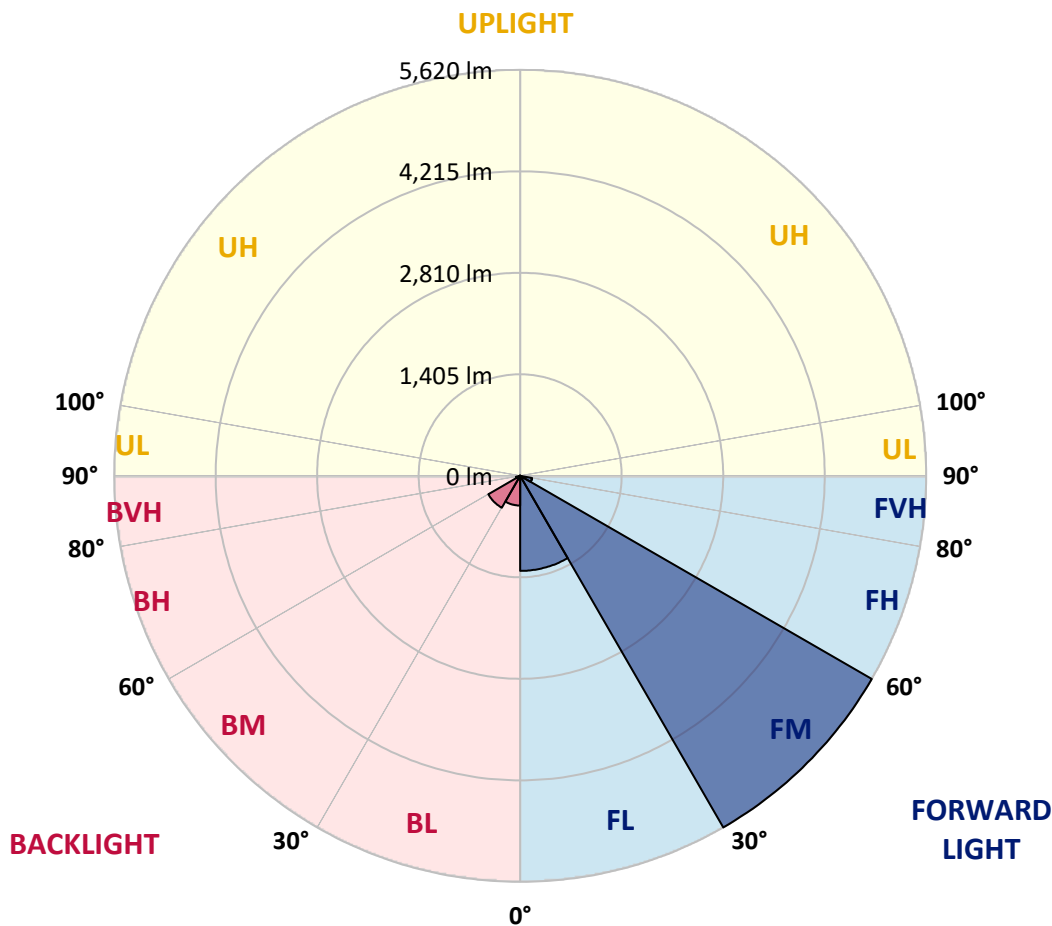
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1315.7	16.3			
FM	(30°-60°)	5619.7	69.4			
FH	(60°-80°)	167.3	2.1			G0/660
FVH	(80°-90°)	4.0	0.1			G0/10
BL	(0°-30°)	411.6	5.1	B1/500		
BM	(30°-60°)	509.8	6.3	B1/1000		
BH	(60°-80°)	59.5	0.7	B0/110		G0/110
BVH	(80°-90°)	4.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8
2.5°	2832.3	2767.4	2773.3	2730.8	2706.1	2666.0	2611.7	2601.1	2542.1	2461.9	2380.5
5°	3087.1	3071.7	3091.8	3030.5	3032.8	2966.8	2839.4	2841.7	2706.1	2575.1	2448.9
7.5°	3103.6	3068.2	3088.3	3142.5	3174.4	3162.6	3090.6	3028.1	2899.5	2707.2	2523.2
10°	2779.2	2846.4	2867.7	2957.3	3084.7	3219.2	3210.9	3214.5	3107.1	2855.9	2586.9
12.5°	2584.6	2539.7	2611.7	2666.0	2858.2	3118.9	3238.1	3264.0	3272.3	2999.8	2650.6
15°	2496.1	2496.1	2507.9	2523.2	2662.4	2903.1	3146.1	3221.6	3399.7	3188.5	2750.9
17.5°	2551.5	2549.2	2565.7	2533.8	2585.7	2770.9	3061.1	3147.2	3542.4	3373.7	2829.9
20°	2720.2	2728.5	2717.9	2625.8	2629.4	2768.6	2966.8	3102.4	3639.1	3534.2	2934.9
22.5°	2955.0	2959.7	2899.5	2799.2	2769.8	2838.2	3021.0	3124.8	3717.0	3726.4	2966.8
25°	3226.3	3207.4	3195.6	3054.0	2964.4	3023.4	3143.7	3203.9	3765.4	3891.6	3057.6
27.5°	3602.6	3564.8	3492.9	3366.6	3300.6	3216.8	3302.9	3402.0	3903.4	4122.8	3156.7
30°	4158.2	4125.1	3984.8	3822.0	3648.6	3566.0	3593.1	3647.4	4152.3	4390.6	3287.6
32.5°	4994.5	4924.9	4722.0	4411.8	4175.9	3948.2	3941.1	3998.9	4375.2	4761.0	3443.3
35°	5915.8	5894.6	5596.1	5276.5	4819.9	4468.4	4474.3	4505.0	4802.2	5247.0	3647.4
37.5°	6528.0	6644.8	6454.9	6111.6	5728.3	5225.7	5098.3	5109.0	5388.5	5822.6	4015.4
40°	7001.1	6902.0	6924.4	6844.2	6582.3	6240.2	5958.3	5902.8	6066.8	6459.6	4381.1
42.5°	6794.6	6799.4	6937.4	7127.3	7192.2	7167.4	6879.6	6774.6	6647.2	6981.0	4729.1
45°	6211.9	6333.4	6512.7	7015.2	7456.4	7870.5	7813.8	7639.2	7048.3	7393.9	4929.6
47.5°	5282.4	5277.6	5571.4	6224.9	7205.1	8174.8	8432.0	8309.3	7332.5	7347.9	4888.4
48°	4939.1	5024.0	5327.2	6096.3	7045.9	8130.0	8487.4	8332.9	7284.2	7286.5	4853.0
50°	3650.9	3635.6	4013.1	4956.8	6293.3	7639.2	8253.8	8374.2	7283.0	6976.3	4605.3
52.5°	1928.7	1994.7	2269.6	3116.6	4449.5	6252.0	7280.6	7468.2	7025.8	6469.1	4249.0
55°	819.8	740.8	952.0	1407.3	2503.2	4177.0	5341.3	5758.9	5940.6	5724.7	3717.0
57.5°	292.5	319.7	368.0	529.7	1052.2	2286.1	3185.0	3509.4	4115.7	4200.6	2532.7
60°	187.6	191.1	206.4	243.0	395.2	881.2	1511.1	1769.4	2044.3	2110.3	1182.0
62.5°	145.1	146.3	153.4	159.2	187.6	342.1	567.4	672.4	698.3	600.4	310.2
65°	121.5	122.7	125.0	125.0	133.3	160.4	198.2	218.2	212.3	210.0	175.8
67.5°	93.2	95.5	100.3	100.3	105.0	97.9	109.7	116.8	132.1	160.4	149.8
70°	73.1	74.3	77.9	80.2	80.2	70.8	79.0	86.1	96.7	119.1	118.0
72.5°	56.6	59.0	61.3	61.3	57.8	48.4	56.6	62.5	69.6	82.6	80.2
75°	43.6	43.6	44.8	36.6	28.3	24.8	34.2	41.3	51.9	54.3	44.8
77.5°	11.8	13.0	11.8	10.6	11.8	17.7	22.4	26.0	33.0	33.0	29.5
80°	0.0	1.2	3.5	7.1	11.8	16.5	20.1	22.4	26.0	28.3	27.1
82.5°	0.0	1.2	3.5	7.1	10.6	13.0	17.7	18.9	21.2	24.8	24.8
85°	0.0	1.2	2.4	4.7	7.1	8.3	8.3	7.1	7.1	5.9	4.7
87.5°	0.0	0.0	1.2	2.4	2.4	3.5	3.5	3.5	3.5	3.5	3.5
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°	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8
2.5°	2348.6	2312.1	2256.6	2169.3	2085.6	2031.3	1979.4	1921.6	1889.8	1887.4	1869.7
5°	2376.9	2294.4	2162.3	2012.4	1852.0	1714.0	1574.8	1484.0	1402.6	1357.7	1349.5
7.5°	2392.3	2284.9	2071.4	1820.2	1546.5	1321.2	1165.5	1051.0	1006.2	973.2	972.0
10°	2424.1	2268.4	1935.8	1565.4	1226.8	999.1	891.8	839.9	815.1	805.7	791.5
12.5°	2447.7	2237.7	1796.6	1303.5	969.7	828.1	780.9	769.1	770.3	775.0	769.1
15°	2480.7	2210.6	1609.0	1069.9	813.9	745.5	745.5	747.9	764.4	766.8	765.6
17.5°	2478.4	2157.5	1415.5	881.2	719.6	710.1	713.7	736.1	746.7	750.2	742.0
20°	2506.7	2108.0	1216.2	752.6	666.5	680.6	704.2	710.1	723.1	725.5	716.0
22.5°	2498.4	1984.1	1031.0	651.2	626.4	653.5	677.1	684.2	680.6	673.6	672.4
25°	2483.1	1878.0	861.1	583.9	596.9	626.4	648.8	635.8	628.7	629.9	631.1
27.5°	2456.0	1743.5	720.8	536.7	556.8	600.4	599.2	594.5	601.6	595.7	601.6
30°	2451.3	1609.0	605.1	494.3	527.3	559.1	561.5	569.8	578.0	567.4	578.0
32.5°	2458.3	1461.6	522.6	468.3	509.6	510.8	536.7	545.0	539.1	515.5	517.9
35°	2512.6	1348.3	462.4	454.2	481.3	482.5	507.2	496.6	470.7	456.5	464.8
37.5°	2627.0	1253.9	434.1	441.2	443.5	458.9	460.1	438.8	441.2	440.0	444.7
40°	2773.3	1182.0	414.0	429.4	427.0	437.6	395.2	407.0	417.6	421.1	423.5
42.5°	2873.6	1130.1	401.1	410.5	405.8	386.9	363.3	375.1	383.4	396.4	398.7
45°	2918.4	1088.8	385.7	377.5	377.5	343.3	333.8	336.2	355.1	369.2	366.9
47.5°	2845.3	1048.7	358.6	333.8	342.1	313.8	303.2	303.2	323.2	340.9	337.4
48°	2816.9	1032.2	359.8	324.4	330.3	309.1	298.4	296.1	318.5	335.0	335.0
50°	2676.6	970.8	329.1	298.4	286.6	284.3	277.2	279.6	293.7	309.1	309.1
52.5°	2402.9	838.7	278.4	256.0	234.7	248.9	252.4	247.7	254.8	269.0	267.8
55°	2005.4	644.1	222.9	212.3	195.8	211.2	218.2	212.3	205.3	215.9	215.9
57.5°	1284.6	346.8	178.1	180.5	164.0	179.3	185.2	171.0	158.1	166.3	165.1
60°	579.2	207.6	146.3	142.7	132.1	149.8	159.2	142.7	125.0	130.9	136.8
62.5°	217.1	147.5	110.9	108.5	106.2	122.7	127.4	114.4	96.7	100.3	101.4
65°	159.2	129.8	88.5	80.2	84.9	96.7	94.4	81.4	69.6	69.6	72.0
67.5°	135.7	113.2	72.0	62.5	62.5	63.7	59.0	51.9	48.4	50.7	53.1
70°	106.2	89.7	56.6	48.4	43.6	38.9	34.2	33.0	29.5	33.0	31.8
72.5°	68.4	60.2	43.6	36.6	33.0	27.1	22.4	21.2	17.7	16.5	16.5
75°	36.6	36.6	34.2	29.5	26.0	21.2	17.7	14.2	9.4	7.1	7.1
77.5°	26.0	28.3	30.7	28.3	23.6	17.7	14.2	9.4	4.7	2.4	2.4
80°	24.8	28.3	30.7	27.1	23.6	17.7	13.0	7.1	3.5	1.2	1.2
82.5°	22.4	26.0	28.3	24.8	21.2	15.3	11.8	7.1	3.5	1.2	1.2
85°	4.7	5.9	7.1	7.1	8.3	10.6	8.3	5.9	2.4	1.2	1.2
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	2.4	2.4	1.2	1.2	1.2
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)