

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: P529751

Luminaire Tested: **GALN-SA4D-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14522 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

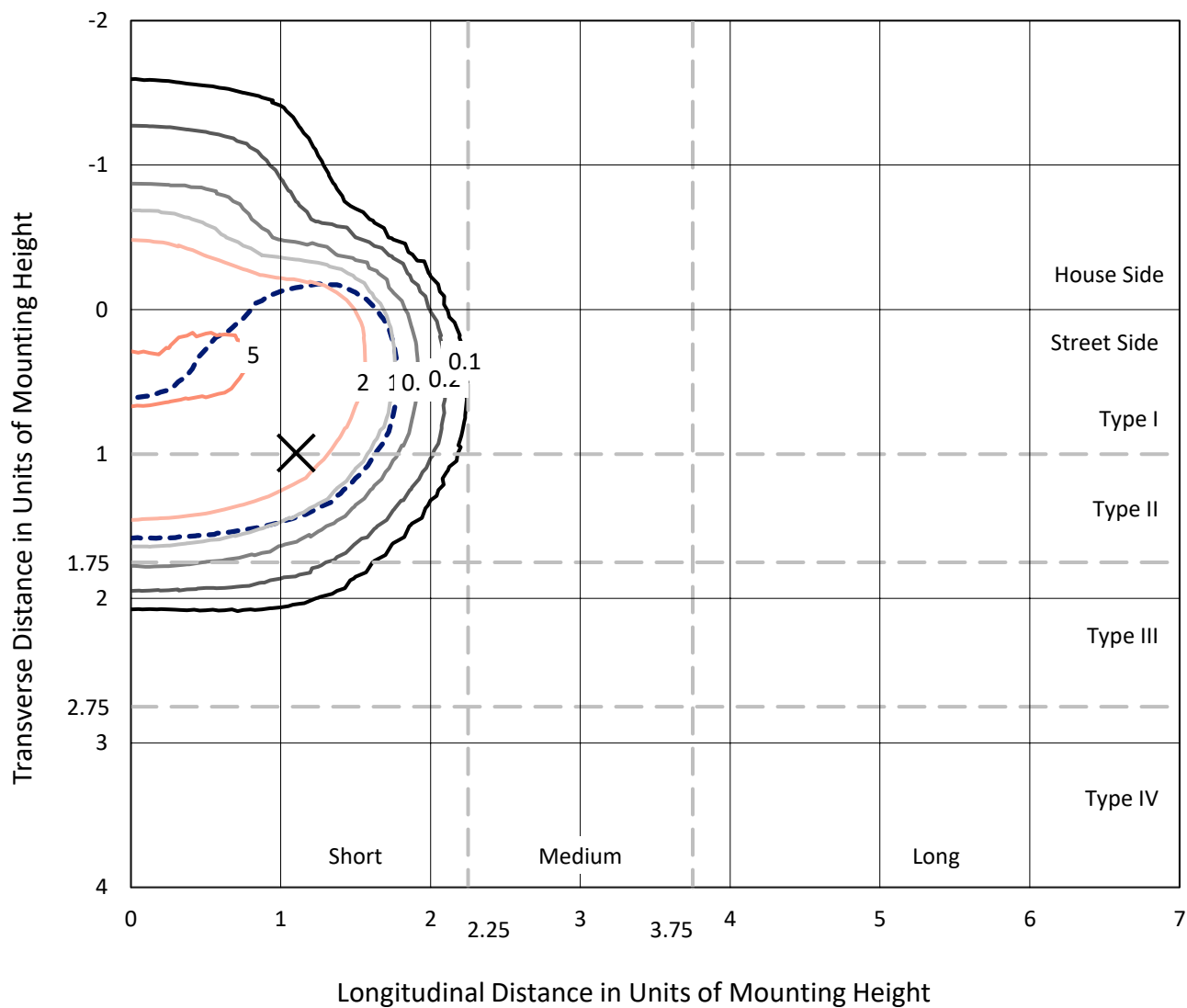
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

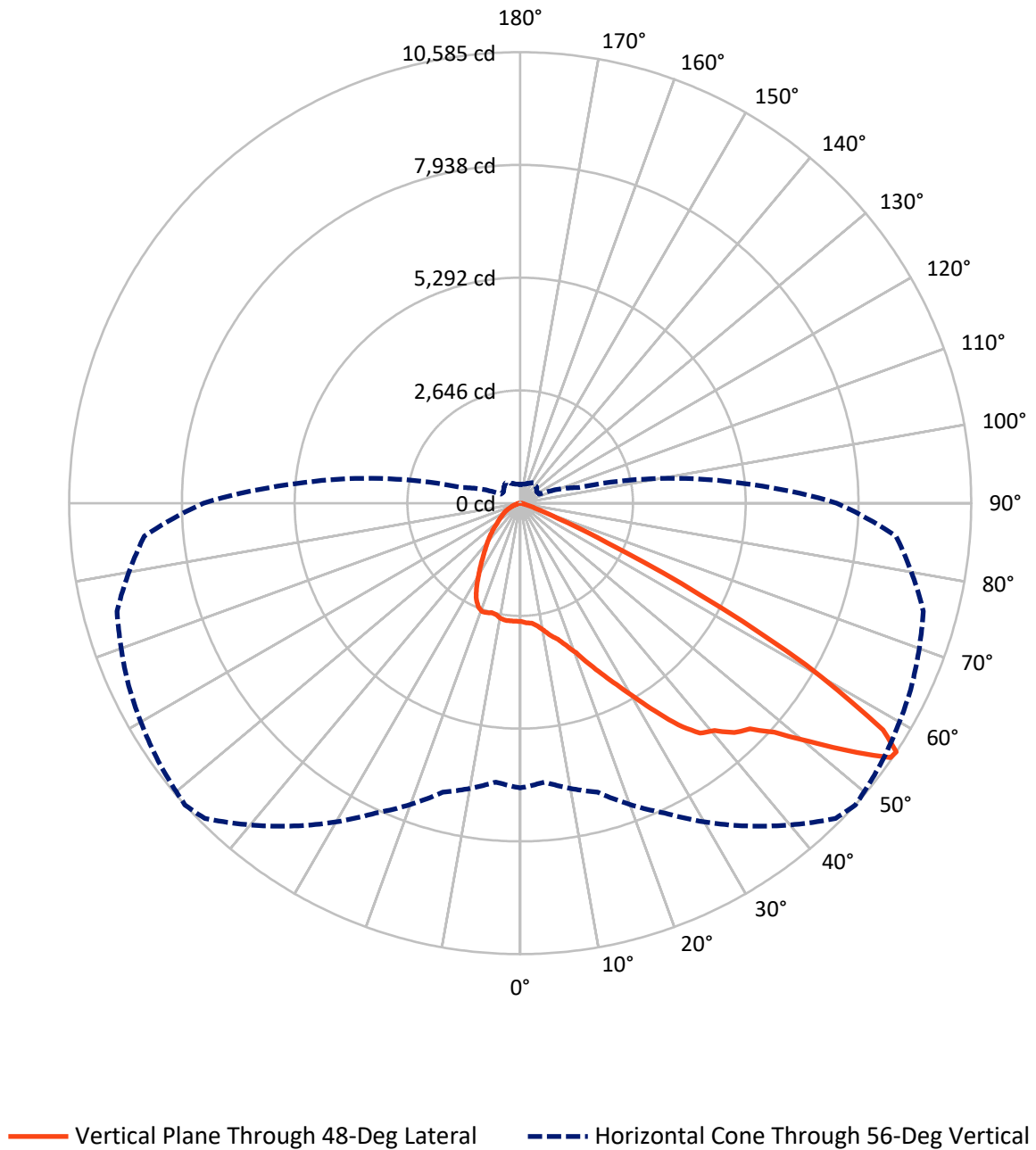
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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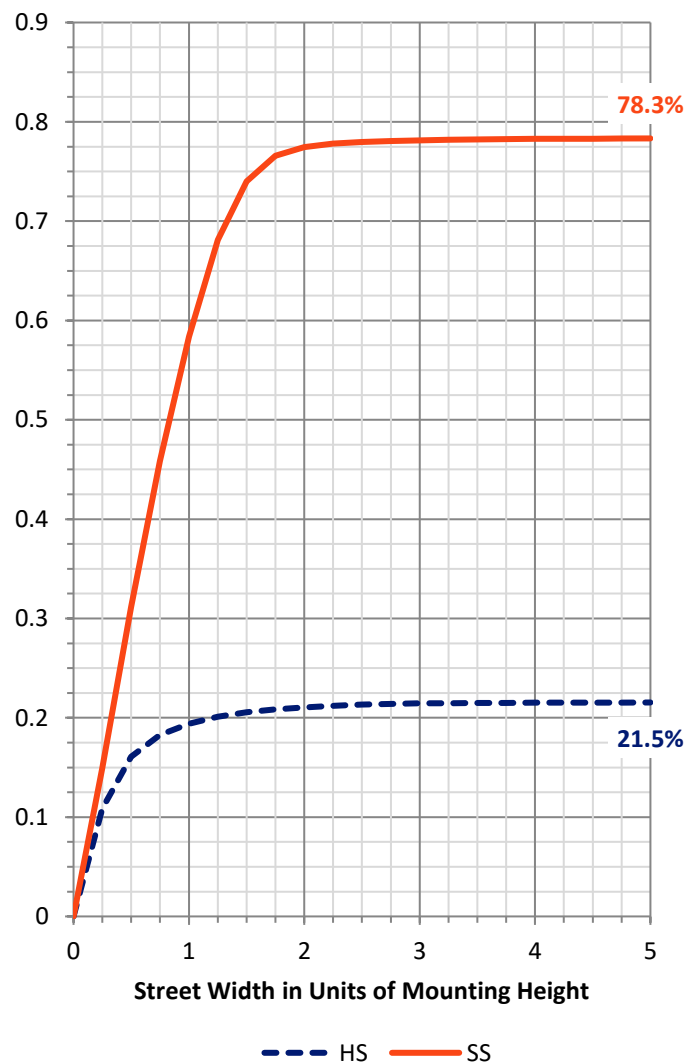
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3158.3	0.0	3158.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11363.7	0.0	11363.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	14522.0	0.0	14522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	1.9
10°-20°	863.5	5.9
20°-30°	1566.2	10.8
30°-40°	2460.2	16.9
40°-50°	3588.9	24.7
50°-60°	4324.0	29.8
60°-70°	1266.0	8.7
70°-80°	160.6	1.1
80°-90°	22.5	0.2
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°	14522.0	100.0
0°-180°	14522.0	100.0

Coefficient of Utilization



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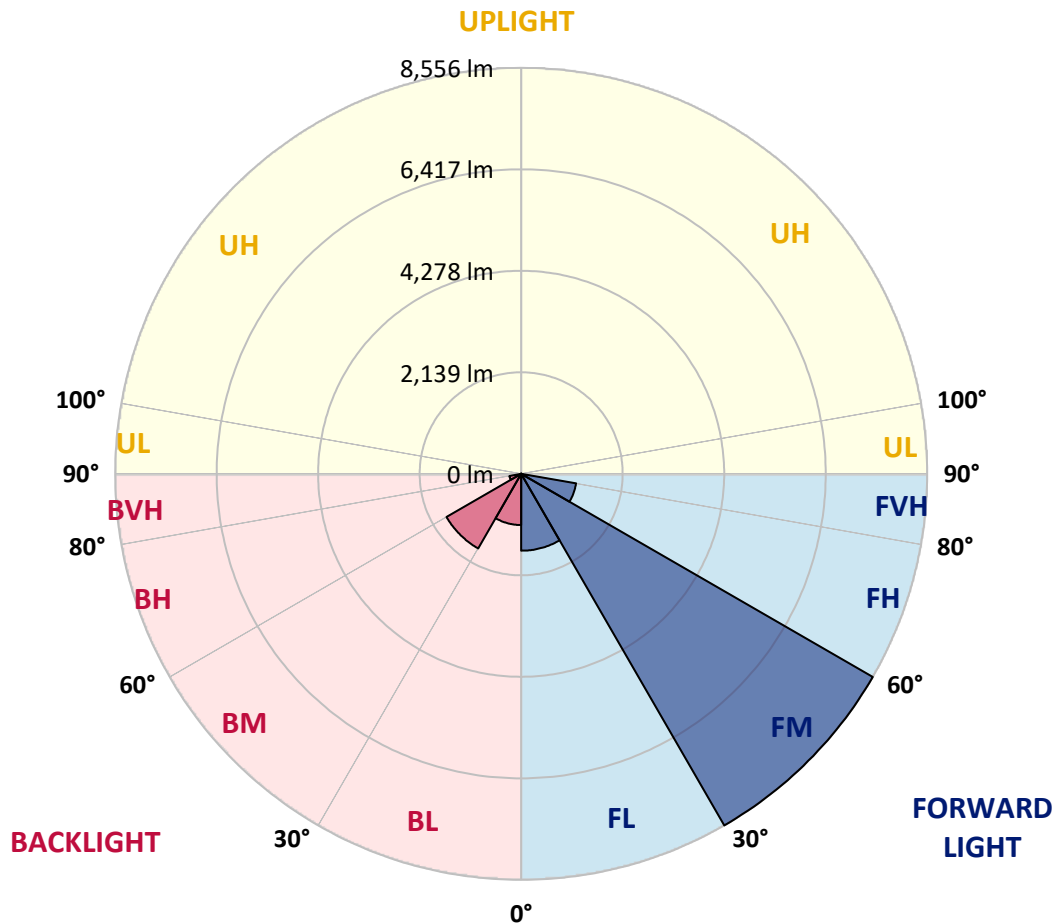
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1620.4	11.2			
FM	(30°-60°)	8556.4	58.9			
FH	(60°-80°)	1175.7	8.1			G1/1800
FVH	(80°-90°)	11.3	0.1			G1/100
BL	(0°-30°)	1079.5	7.4	B3/2500		
BM	(30°-60°)	1816.6	12.5	B2/2500		
BH	(60°-80°)	250.9	1.7	B1/500		G1/500
BVH	(80°-90°)	11.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7
2.5°	2823.9	2810.7	2810.7	2789.6	2813.4	2802.8	2810.7	2784.3	2810.7	2771.1	2802.8
5°	2837.2	2839.8	2829.2	2842.5	2842.5	2858.3	2831.9	2855.7	2868.9	2839.8	2826.6
7.5°	2905.9	2911.2	2908.6	2898.0	2919.1	2916.5	2913.8	2895.3	2900.6	2890.1	2874.2
10°	3040.8	3038.1	3051.3	3024.9	3009.0	3027.5	3032.8	3003.7	2982.6	2974.7	2924.4
12.5°	3236.4	3204.7	3186.2	3159.8	3167.7	3141.2	3188.8	3138.6	3128.0	3080.4	3030.2
15°	3395.1	3389.8	3392.4	3350.1	3302.5	3313.1	3313.1	3286.7	3270.8	3212.6	3141.2
17.5°	3720.3	3609.3	3633.1	3580.2	3540.5	3537.9	3514.1	3519.4	3477.1	3355.4	3247.0
20°	3974.2	3926.6	3889.5	3799.6	3738.8	3757.3	3746.8	3720.3	3707.1	3548.4	3395.1
22.5°	4201.5	4217.4	4156.6	4132.8	4048.2	4056.1	4077.3	4053.5	3953.0	3789.1	3561.7
25°	4521.5	4503.0	4421.0	4391.9	4312.6	4341.7	4423.7	4405.1	4341.7	4045.5	3691.2
27.5°	4899.6	4836.1	4852.0	4719.8	4643.1	4725.1	4822.9	4915.5	4735.7	4347.0	3844.6
30°	5166.7	5100.6	5095.3	5090.0	5071.5	5166.7	5280.4	5365.0	5219.5	4648.4	4098.4
32.5°	5298.9	5314.7	5359.7	5343.8	5505.1	5700.8	5819.8	5941.4	5758.9	5140.2	4434.2
35°	5650.5	5550.1	5650.5	5661.1	5827.7	6242.8	6393.5	6684.4	6639.4	5835.6	4844.1
37.5°	5856.8	5848.8	5862.1	5962.5	6123.8	6636.8	6851.0	7075.7	6991.1	6253.4	5354.4
40°	6197.9	6219.0	6216.4	6293.1	6470.2	6932.9	7020.2	7202.7	7210.6	6832.5	6105.3
42.5°	6745.2	6660.6	6605.1	6684.4	6932.9	7189.4	7363.9	7326.9	7588.7	7535.8	7070.4
45°	7237.0	7287.3	7205.3	7337.5	7427.4	7564.9	7559.6	7638.9	7972.1	8223.3	7797.6
47.5°	7697.1	7728.8	7768.5	7858.4	8054.1	8075.2	8030.3	7995.9	8456.0	8715.1	8360.8
50°	7972.1	8001.2	8186.3	8347.6	8712.5	8760.1	8786.5	8699.2	9011.2	9040.3	8892.3
52.5°	7898.1	7929.8	8188.9	8720.4	9302.1	9738.4	9659.1	9511.0	9492.5	9606.2	9384.1
55°	7242.3	7213.2	7570.2	8397.8	9487.2	10534.3	10544.9	10388.8	10090.1	10013.4	9310.0
56°	6684.4	6570.7	7025.5	8025.0	9249.2	10465.5	10584.5	10417.9	10137.7	9793.9	8852.6
57.5°	5476.0	5584.4	6036.6	6864.2	8426.9	9971.1	10039.8	10000.2	9788.6	9212.2	7789.7
60°	3019.6	3210.0	3609.3	4622.0	5999.6	7652.2	7707.7	8030.3	8069.9	7054.6	5359.7
62.5°	1282.4	1261.3	1676.4	2422.0	3416.2	4619.3	4722.4	5053.0	5113.8	4066.7	2689.1
65°	520.9	550.0	758.9	1219.0	1806.0	2104.7	2250.2	2358.6	2559.5	1679.0	991.6
67.5°	343.7	341.1	446.9	695.4	973.0	938.7	938.7	991.6	917.5	684.8	428.4
70°	245.9	253.8	319.9	481.2	605.5	449.5	431.0	412.5	468.0	452.1	346.4
72.5°	161.3	171.9	214.2	288.2	314.7	245.9	245.9	296.1	386.0	364.9	282.9
75°	105.8	108.4	132.2	166.6	156.0	126.9	140.1	198.3	280.3	269.7	201.0
77.5°	71.4	74.0	89.9	108.4	87.3	71.4	76.7	100.5	137.5	137.5	105.8
80°	26.4	29.1	37.0	34.4	39.7	50.2	55.5	68.7	82.0	82.0	71.4
82.5°	0.0	2.6	7.9	18.5	29.1	39.7	45.0	52.9	60.8	68.7	66.1
85°	0.0	2.6	7.9	13.2	21.2	23.8	26.4	18.5	15.9	15.9	13.2
87.5°	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	5.3	2.6	2.6
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°	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7	2773.7
2.5°	2773.7	2771.1	2771.1	2763.1	2779.0	2771.1	2776.4	2773.7	2739.3	2765.8	2747.3
5°	2802.8	2821.3	2792.2	2786.9	2765.8	2773.7	2773.7	2747.3	2771.1	2768.4	2763.1
7.5°	2876.8	2845.1	2813.4	2781.6	2776.4	2768.4	2739.3	2728.8	2747.3	2726.1	2757.8
10°	2908.6	2913.8	2866.3	2823.9	2784.3	2728.8	2689.1	2665.3	2636.2	2667.9	2686.5
12.5°	3054.0	3001.1	2919.1	2853.0	2718.2	2662.7	2623.0	2612.4	2662.7	2673.2	2654.7
15°	3104.2	3096.3	2990.5	2842.5	2702.3	2636.2	2644.1	2623.0	2628.3	2601.8	2607.1
17.5°	3207.3	3117.4	2993.2	2808.1	2699.7	2683.8	2636.2	2551.6	2504.0	2482.9	2501.4
20°	3321.0	3233.8	3054.0	2821.3	2723.5	2681.2	2525.2	2422.0	2324.2	2271.3	2274.0
22.5°	3421.5	3313.1	3027.5	2826.6	2744.6	2570.1	2382.4	2178.8	2057.1	1975.2	1977.8
25°	3543.2	3389.8	3038.1	2837.2	2689.1	2393.0	2123.2	1924.9	1779.5	1724.0	1742.5
27.5°	3611.9	3437.4	3096.3	2861.0	2543.7	2141.8	1850.9	1665.8	1581.2	1554.8	1552.1
30°	3818.1	3543.2	3167.7	2813.4	2300.4	1872.1	1602.4	1488.7	1406.7	1382.9	1388.2
32.5°	4124.9	3736.2	3260.2	2689.1	2051.9	1631.4	1441.1	1356.4	1279.8	1234.8	1229.5
35°	4381.3	4066.7	3358.1	2496.1	1763.6	1446.3	1327.4	1221.6	1105.3	1055.0	1041.8
37.5°	4870.5	4439.5	3336.9	2205.2	1488.7	1308.9	1205.7	1076.2	975.7	906.9	899.0
40°	5521.0	4875.8	3233.8	1850.9	1285.1	1187.2	1076.2	951.9	827.6	769.4	764.2
42.5°	6311.6	5409.9	3046.1	1491.3	1081.5	1065.6	965.1	822.3	711.3	669.0	671.6
45°	6954.1	5867.4	2855.7	1197.8	930.7	946.6	859.3	724.5	647.8	613.4	613.4
47.5°	7525.2	6176.7	2649.4	988.9	790.6	827.6	750.9	671.6	605.5	579.1	573.8
50°	8075.2	6491.4	2443.2	801.2	674.3	711.3	703.3	639.9	587.0	555.3	557.9
52.5°	8419.0	6541.6	2181.4	655.7	589.6	632.0	658.4	600.2	542.0	523.5	518.3
55°	7998.5	5893.8	1692.3	539.4	499.7	555.3	605.5	539.4	494.5	462.7	460.1
56°	7432.7	5269.8	1414.6	497.1	473.3	534.1	587.0	515.6	465.4	446.9	433.6
57.5°	6293.1	4312.6	1044.4	441.6	438.9	497.1	557.9	491.8	433.6	417.8	417.8
60°	3923.9	2427.3	632.0	370.2	380.8	441.6	502.4	438.9	386.0	386.0	394.0
62.5°	1787.4	1010.1	383.4	314.7	327.9	380.8	446.9	396.6	367.5	396.6	401.9
65°	608.2	436.3	277.6	251.2	259.1	314.7	383.4	401.9	399.3	417.8	428.4
67.5°	341.1	280.3	232.7	208.9	203.6	232.7	314.7	401.9	386.0	378.1	383.4
70°	288.2	238.0	206.2	185.1	177.2	187.7	243.3	304.1	272.3	264.4	259.1
72.5°	232.7	198.3	179.8	166.6	142.8	121.6	111.1	116.3	129.6	137.5	150.7
75°	163.9	150.7	150.7	134.9	103.1	76.7	60.8	50.2	34.4	23.8	26.4
77.5°	92.5	92.5	95.2	82.0	66.1	50.2	37.0	26.4	13.2	5.3	2.6
80°	63.5	68.7	74.0	66.1	55.5	45.0	31.7	18.5	7.9	0.0	0.0
82.5°	63.5	71.4	76.7	66.1	55.5	42.3	31.7	18.5	7.9	2.6	0.0
85°	13.2	15.9	18.5	21.2	31.7	31.7	23.8	15.9	7.9	2.6	0.0
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	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)