

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: P943476

Luminaire Tested: **GALN-SB8A-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23500 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 227.1
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

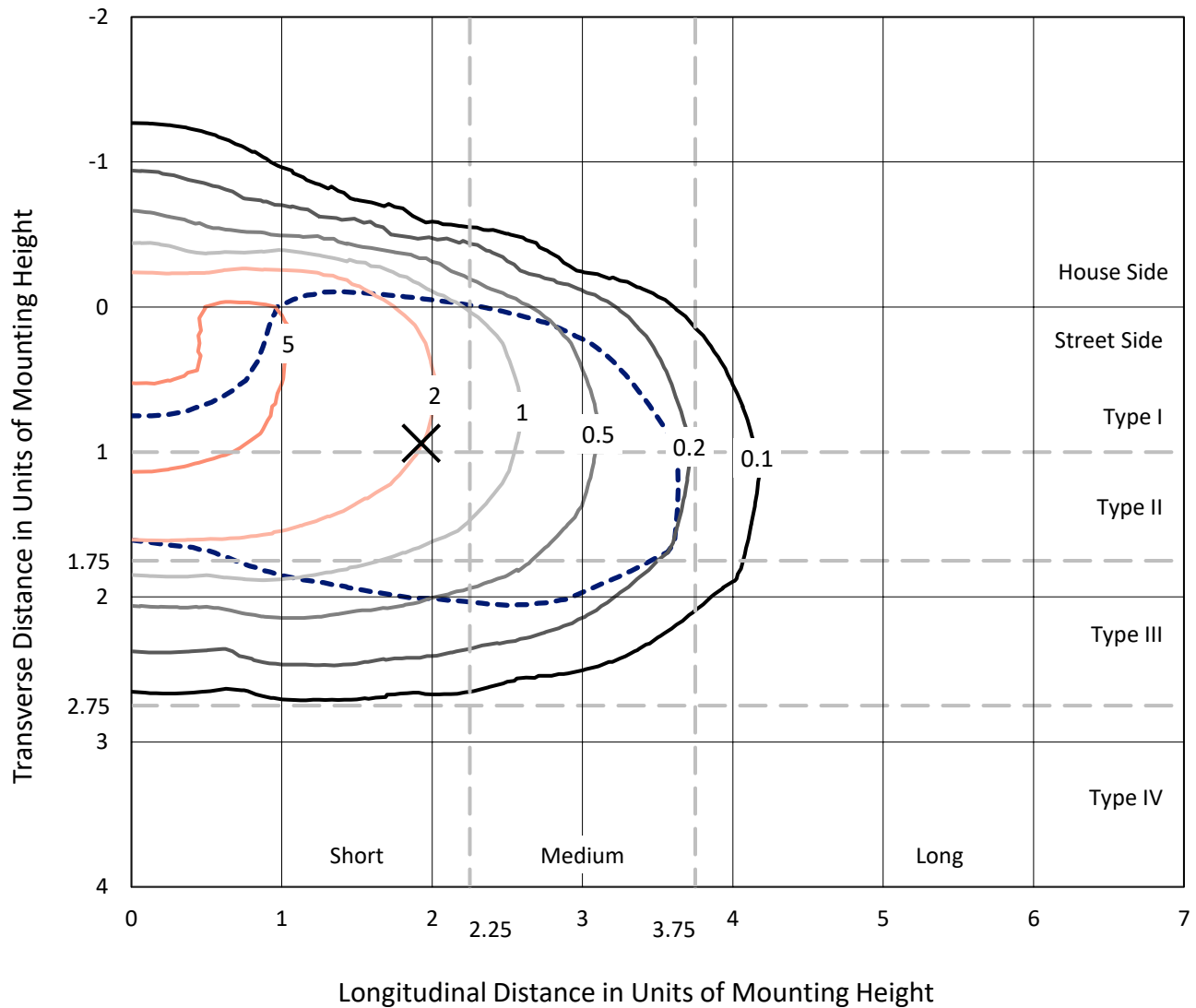


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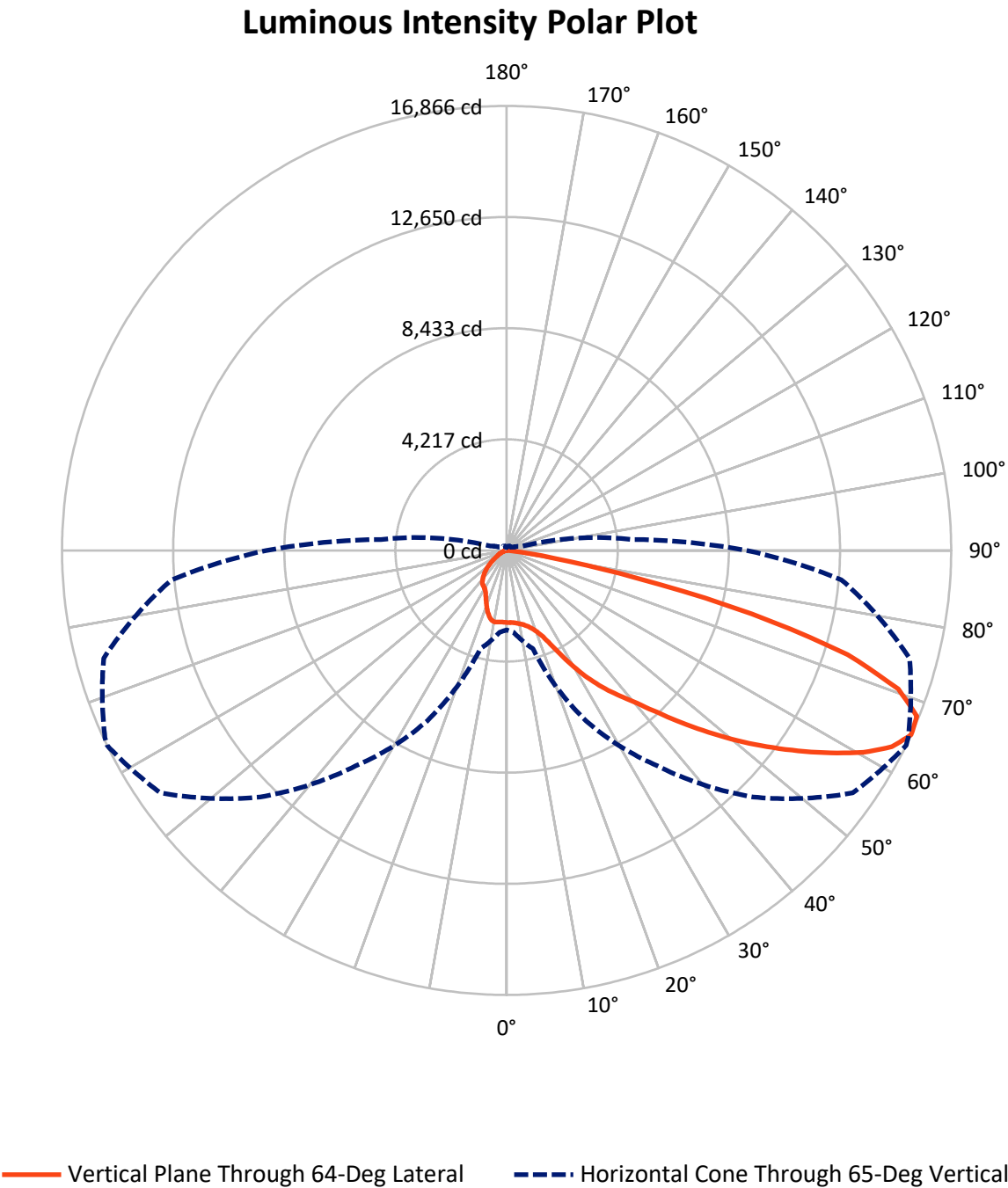
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type III - Short - N/A

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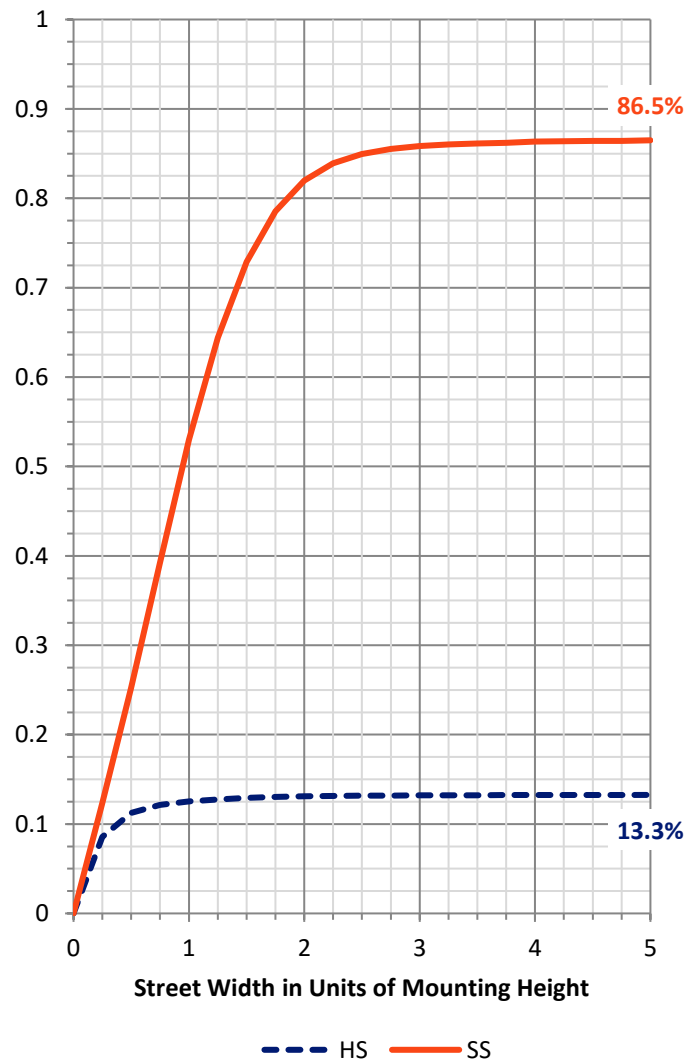
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3142.7	0.0	3142.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20357.3	0.0	20357.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	23500.0	0.0	23500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	1.1
10°-20°	684.0	2.9
20°-30°	1296.1	5.5
30°-40°	2622.6	11.2
40°-50°	4467.6	19.0
50°-60°	6075.7	25.9
60°-70°	5705.3	24.3
70°-80°	2285.8	9.7
80°-90°	110.7	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°	23500.0	100.0
0°-180°	23500.0	100.0

Coefficient of Utilization



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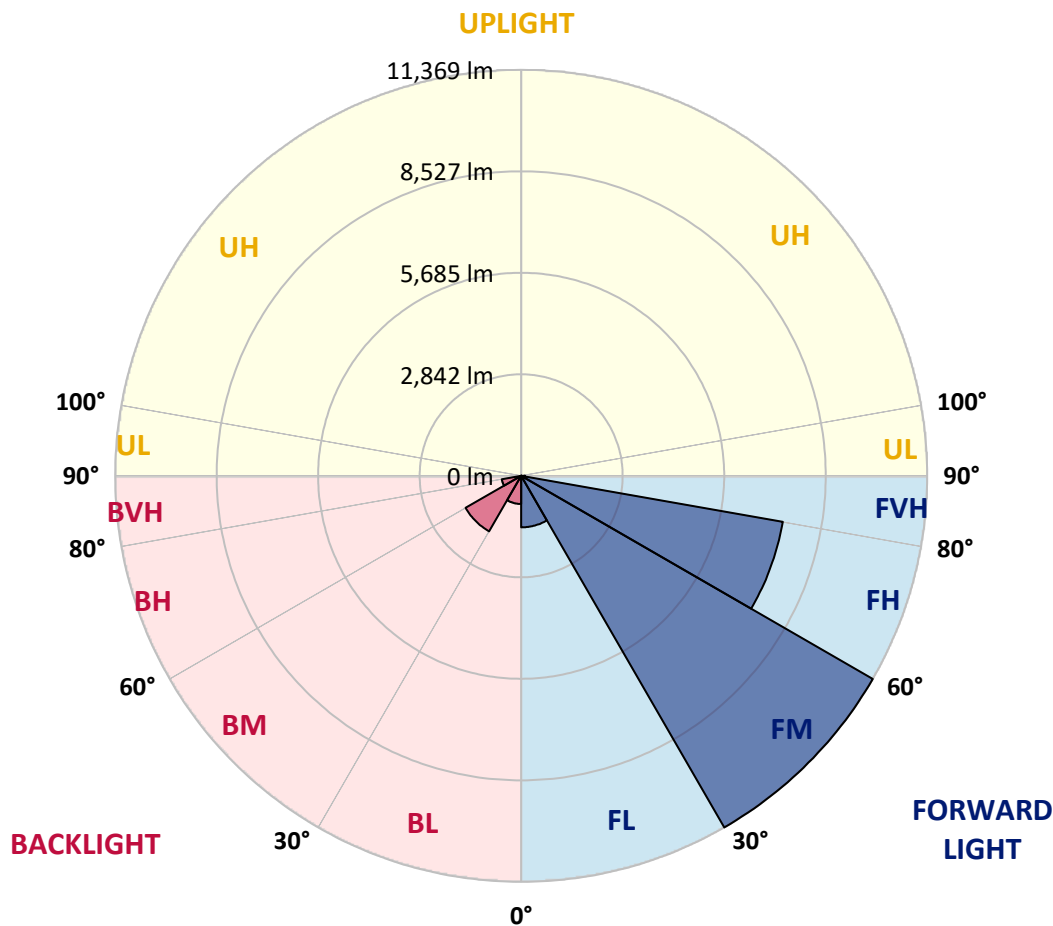
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1443.2	6.1			
FM	(30°-60°)	11369.3	48.4			
FH	(60°-80°)	7439.6	31.7			G3/7500
FVH	(80°-90°)	105.3	0.4			G2/225
BL	(0°-30°)	789.0	3.4	B2/1000		
BM	(30°-60°)	1796.6	7.6	B2/2500		
BH	(60°-80°)	551.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.4	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3
2.5°	2723.8	2742.7	2738.0	2733.3	2731.7	2734.9	2736.4	2734.9	2734.9	2734.9	2736.4
5°	2671.9	2687.6	2687.6	2698.6	2714.4	2733.3	2747.5	2750.6	2753.8	2758.5	2756.9
7.5°	2572.6	2585.2	2594.7	2630.9	2670.3	2720.7	2763.2	2785.3	2788.4	2805.8	2812.1
10°	2504.9	2520.6	2536.4	2574.2	2630.9	2706.5	2779.0	2832.5	2840.4	2881.4	2900.3
12.5°	2501.7	2517.5	2537.9	2578.9	2645.1	2725.4	2813.6	2890.8	2905.0	2964.9	3004.3
15°	2534.8	2553.7	2572.6	2623.0	2693.9	2791.6	2886.1	2982.2	2996.4	3081.5	3124.0
17.5°	2602.5	2627.7	2641.9	2692.3	2768.0	2876.7	3001.1	3111.4	3124.0	3223.2	3276.8
20°	2736.4	2766.4	2771.1	2812.1	2886.1	3002.7	3150.8	3287.8	3303.6	3417.0	3476.9
22.5°	3013.7	3056.2	3018.4	3038.9	3105.1	3221.7	3382.4	3555.6	3577.7	3706.9	3760.4
25°	3502.1	3561.9	3464.3	3429.6	3458.0	3579.3	3780.9	3999.9	4025.1	4129.1	4155.9
27.5°	4461.5	4384.3	4236.2	4091.3	4006.2	4075.5	4302.4	4573.3	4604.9	4705.7	4674.2
30°	5515.4	5447.7	5247.6	4926.2	4724.6	4713.6	4923.1	5225.6	5261.8	5357.9	5261.8
32.5°	6570.9	6506.3	6288.9	5893.5	5543.8	5370.5	5515.4	5851.0	5869.9	5931.3	5789.5
35°	7609.1	7542.9	7325.5	6920.7	6490.6	6096.7	6068.4	6446.5	6452.8	6517.4	6306.3
37.5°	8653.6	8598.5	8366.9	7969.9	7546.1	7002.6	6739.5	7010.5	7018.3	7081.4	6862.4
40°	9398.8	9422.4	9263.3	8956.1	8592.2	7998.2	7492.5	7610.7	7563.4	7669.0	7538.2
42.5°	10038.4	10085.6	9947.0	9792.6	9581.5	9058.5	8425.2	8404.7	8329.1	8385.8	8250.3
45°	10591.3	10630.7	10506.2	10470.0	10465.3	10098.2	9444.4	9321.6	9216.0	9205.0	9042.7
47.5°	10794.5	10870.2	10923.7	11045.0	11281.3	11126.9	10498.4	10307.7	10189.6	10102.9	9846.2
50°	10871.7	10952.1	11134.8	11487.7	12047.0	12113.1	11547.6	11333.3	11188.4	11030.8	10652.8
52.5°	10767.8	10911.1	11156.9	11750.8	12562.1	12904.0	12554.2	12366.8	12201.4	11944.6	11383.7
55°	10154.9	10298.3	10800.8	11747.7	12818.9	13458.5	13505.8	13422.3	13236.4	12831.5	11974.5
57.5°	8863.1	9075.8	9871.4	11347.5	12814.2	13935.9	14438.4	14498.3	14290.3	13710.6	12439.2
60°	7073.5	7361.8	8332.2	10460.6	12418.8	14194.2	15256.0	15555.4	15334.8	14577.0	12815.8
62.5°	4935.7	5269.7	6188.1	9071.1	11514.5	14008.3	15853.1	16406.1	16239.1	15352.1	12960.7
65°	3010.6	3117.7	3858.1	7138.1	9976.9	13230.1	16037.4	16866.1	16810.9	15826.3	12746.4
67.5°	2005.5	2095.3	2307.9	4894.7	7744.6	11675.2	15596.3	16785.7	16801.5	15749.1	11961.9
70°	1208.3	1285.5	1424.1	2846.7	5019.2	9241.2	14230.5	15761.7	15853.1	14717.3	10474.7
72.5°	497.8	549.8	675.8	1290.2	2599.4	5865.2	11331.7	13532.6	13745.2	12374.7	8039.2
75°	282.0	308.8	397.0	647.5	1128.0	2733.3	6864.0	9606.7	9920.2	8529.1	4836.4
77.5°	187.5	200.1	256.8	419.1	634.9	932.6	2933.4	5005.0	5603.6	4658.4	2093.7
80°	126.0	137.1	176.4	280.4	412.8	400.1	934.2	1854.2	2281.2	1600.6	510.4
82.5°	85.1	86.6	126.0	184.3	261.5	193.8	275.7	576.6	724.7	463.2	193.8
85°	48.8	47.3	92.9	107.1	116.6	80.3	83.5	173.3	226.9	195.3	110.3
87.5°	6.3	9.5	36.2	28.4	15.8	17.3	17.3	29.9	44.1	47.3	23.6
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°	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3	2733.3
2.5°	2736.4	2734.9	2730.1	2725.4	2714.4	2708.1	2711.2	2708.1	2706.5	2708.1	2714.4
5°	2756.9	2752.2	2739.6	2723.8	2701.8	2675.0	2657.7	2632.5	2608.8	2594.7	2597.8
7.5°	2812.1	2807.3	2790.0	2745.9	2675.0	2563.2	2460.8	2371.0	2303.2	2263.8	2265.4
10°	2900.3	2892.4	2865.6	2768.0	2582.1	2337.9	2134.6	1966.1	1855.8	1803.8	1799.1
12.5°	3004.3	2994.8	2947.5	2747.5	2405.6	2024.4	1744.0	1556.5	1454.1	1408.4	1403.7
15°	3127.1	3114.5	3021.6	2649.8	2148.8	1677.8	1421.0	1280.8	1214.6	1173.7	1175.2
17.5°	3280.0	3257.9	3076.7	2503.3	1870.0	1413.1	1222.5	1116.9	1058.7	1019.3	1016.1
20°	3478.5	3442.2	3120.8	2328.4	1613.2	1246.1	1088.6	1000.4	956.3	921.6	915.3
22.5°	3755.7	3703.7	3174.4	2139.4	1432.0	1131.1	989.3	924.8	888.5	849.1	842.8
25°	4099.2	4037.7	3240.6	1964.5	1307.6	1031.9	916.9	863.3	820.8	775.1	770.4
27.5°	4579.6	4469.4	3319.3	1821.1	1200.4	946.8	850.7	790.8	742.0	704.2	696.3
30°	5115.3	4934.1	3388.7	1734.5	1102.8	868.0	764.1	704.2	658.5	631.7	627.0
32.5°	5622.6	5376.8	3434.3	1696.7	1014.5	778.2	669.5	604.9	570.3	562.4	567.1
35°	6101.5	5776.9	3429.6	1660.5	935.8	688.4	576.6	510.4	483.6	488.4	488.4
37.5°	6652.9	6203.9	3396.5	1603.7	871.2	606.5	496.2	438.0	414.3	415.9	422.2
40°	7294.0	6697.0	3376.1	1496.6	800.3	530.9	430.1	382.8	365.5	359.2	357.6
42.5°	7977.8	7174.3	3379.2	1375.3	712.1	463.2	384.4	345.0	329.3	324.5	323.0
45°	8664.6	7629.6	3383.9	1249.3	619.1	411.2	351.3	318.2	308.8	302.5	302.5
47.5°	9310.5	8017.1	3295.7	1113.8	527.8	371.8	324.5	302.5	294.6	286.7	286.7
50°	9912.3	8275.5	3083.0	956.3	455.3	340.3	304.0	288.3	280.4	272.5	272.5
52.5°	10380.2	8316.5	2731.7	794.0	404.9	316.7	291.4	277.3	267.8	259.9	258.4
55°	10588.2	8059.7	2232.3	642.8	365.5	296.2	278.8	264.7	253.6	245.8	244.2
57.5°	10534.6	7519.3	1740.8	516.7	327.7	275.7	263.1	253.6	241.0	228.4	226.9
60°	10271.5	6796.2	1312.3	430.1	293.0	253.6	245.8	237.9	220.6	201.6	198.5
62.5°	9816.2	5887.2	935.8	356.0	255.2	228.4	225.3	219.0	193.8	159.1	156.0
65°	9119.9	4782.9	630.2	296.2	219.0	200.1	201.6	190.6	157.5	118.2	115.0
67.5°	8102.2	3497.4	403.3	242.6	182.7	167.0	168.6	162.3	133.9	100.8	96.1
70°	6805.7	2315.8	263.1	184.3	146.5	129.2	138.6	140.2	113.4	81.9	78.8
72.5°	4989.2	1367.4	184.3	137.1	107.1	89.8	113.4	116.6	91.4	61.4	58.3
75°	2843.6	649.1	138.6	99.2	66.2	63.0	88.2	88.2	63.0	41.0	37.8
77.5°	1194.1	271.0	97.7	64.6	37.8	36.2	59.9	55.1	31.5	18.9	18.9
80°	345.0	121.3	52.0	31.5	15.8	14.2	23.6	17.3	7.9	3.2	3.2
82.5°	135.5	53.6	20.5	12.6	6.3	6.3	3.2	0.0	0.0	0.0	0.0
85°	80.3	22.1	9.5	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.5	4.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	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)