

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: P953438

Luminaire Tested: **GALN-SB7A-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22793 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

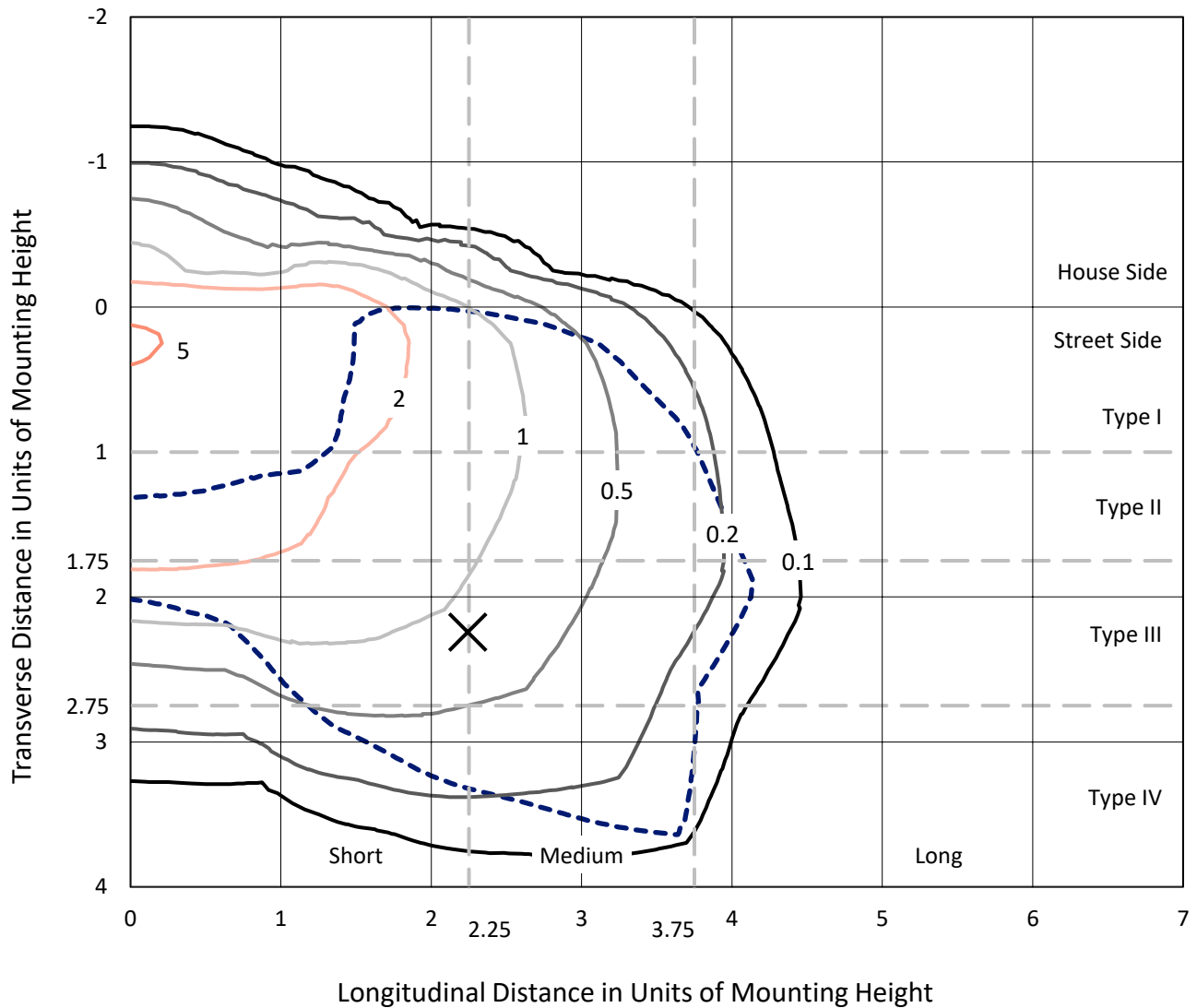
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

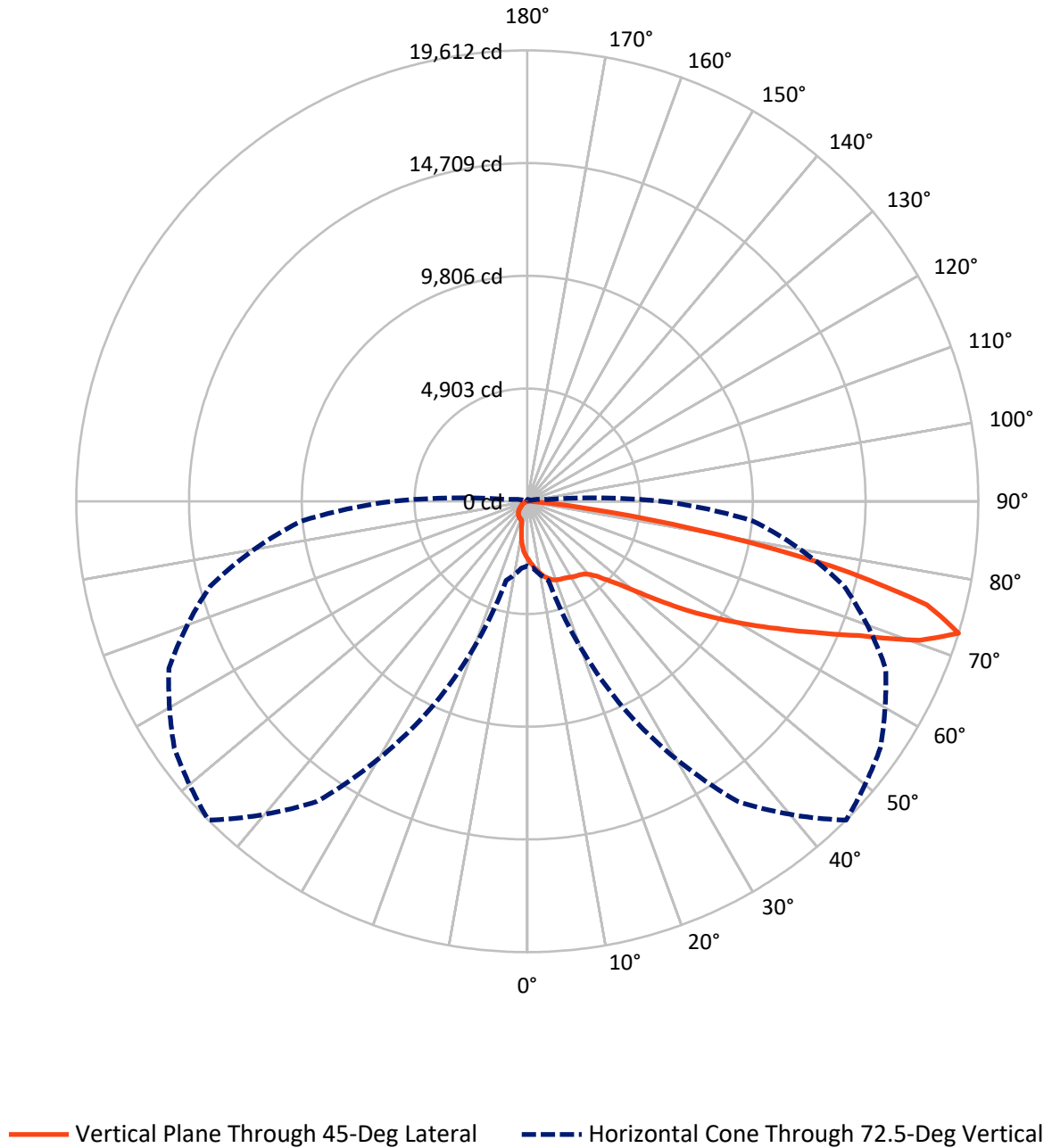
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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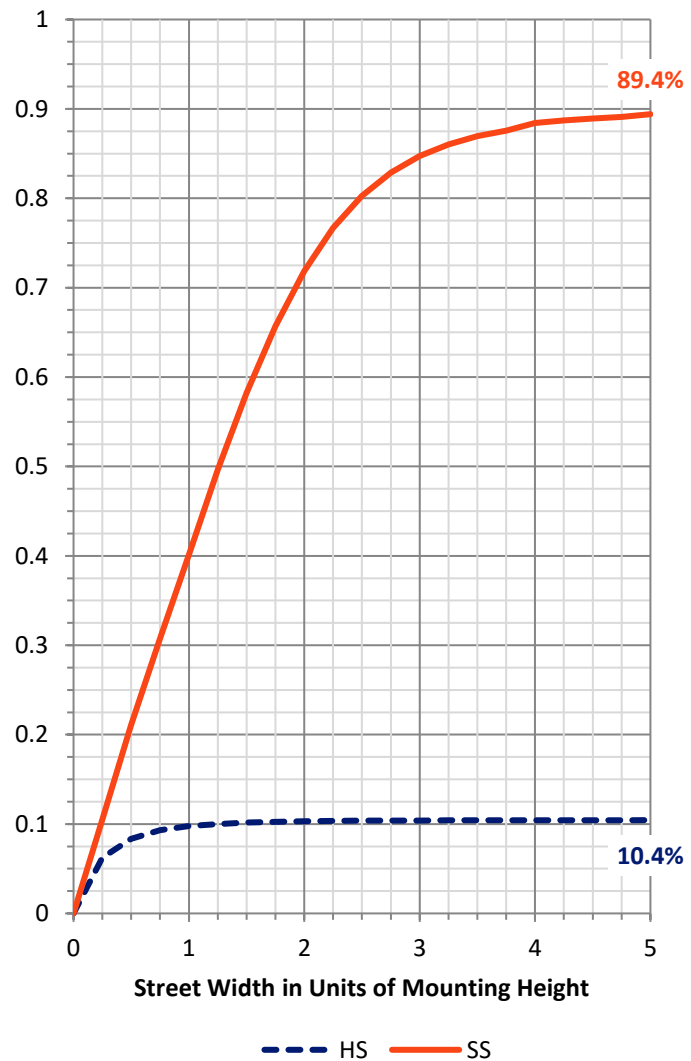
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2394.9	0.0	2394.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20398.1	0.0	20398.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	22793.0	0.0	22793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	1.0
10°-20°	687.6	3.0
20°-30°	1129.1	5.0
30°-40°	1601.4	7.0
40°-50°	2646.9	11.6
50°-60°	4754.9	20.9
60°-70°	6602.4	29.0
70°-80°	4789.2	21.0
80°-90°	346.2	1.5
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°	22793.0	100.0
0°-180°	22793.0	100.0

Coefficient of Utilization



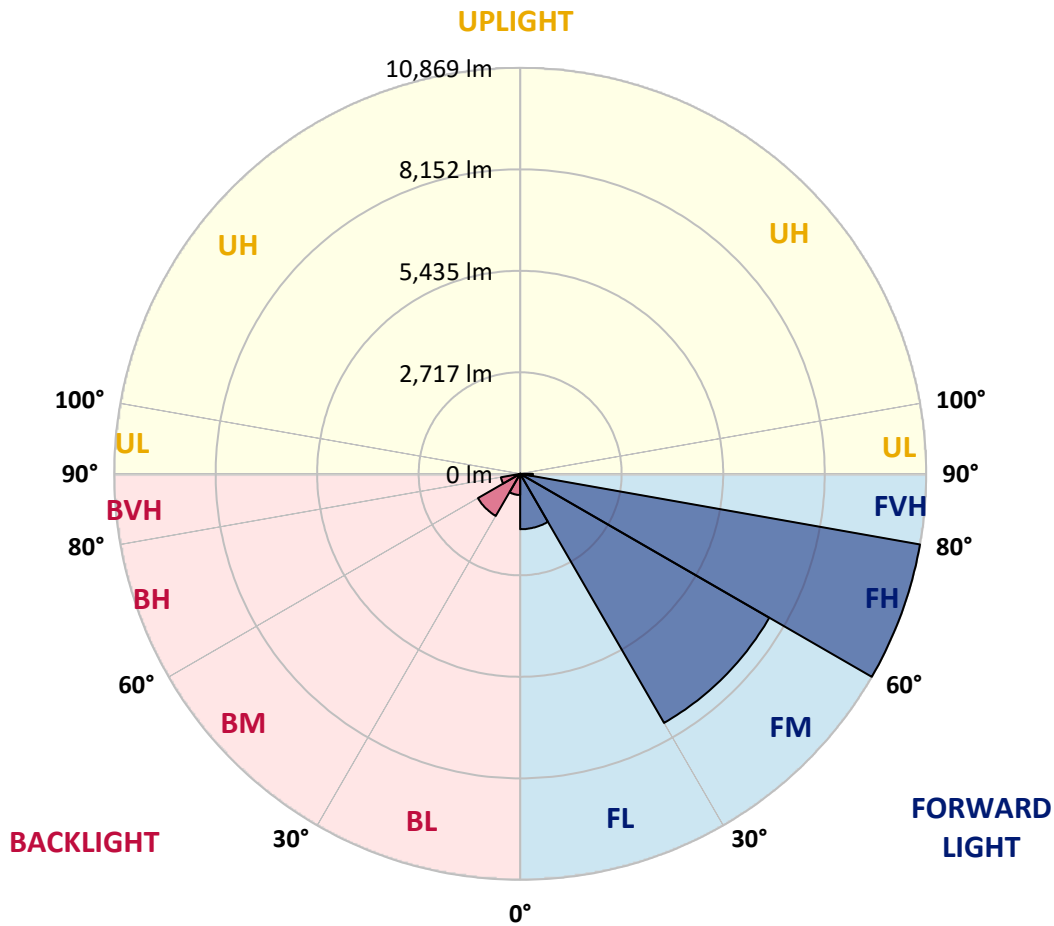
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1484.7	6.5			
FM (30°-60°)	7700.7	33.8			
FH (60°-80°)	10869.3	47.7			G4/12000
FVH (80°-90°)	343.3	1.5			G3/500
BL (0°-30°)	567.3	2.5	B2/1000		
BM (30°-60°)	1302.5	5.7	B2/2500		
BH (60°-80°)	522.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.9	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0
2.5°	2727.3	2731.9	2728.8	2710.2	2679.0	2661.9	2652.6	2621.5	2601.3	2565.5	2528.1
5°	2977.8	2996.4	2985.5	2948.2	2889.1	2847.1	2834.6	2770.8	2713.3	2646.4	2568.6
7.5°	3243.8	3253.1	3232.9	3184.7	3105.3	3033.8	3022.9	2934.2	2842.4	2739.7	2633.9
10°	3474.0	3484.9	3453.8	3383.8	3293.6	3204.9	3189.3	3091.3	2982.4	2856.4	2721.1
12.5°	3667.0	3677.9	3637.4	3553.4	3453.8	3362.0	3346.5	3243.8	3124.0	2984.0	2816.0
15°	3813.2	3833.4	3779.0	3688.7	3581.4	3489.6	3481.8	3380.7	3264.0	3108.4	2929.5
17.5°	3898.8	3919.0	3867.7	3758.8	3667.0	3589.2	3579.8	3495.8	3386.9	3237.6	3040.0
20°	3912.8	3931.4	3877.0	3782.1	3705.9	3643.6	3639.0	3578.3	3498.9	3355.8	3159.8
22.5°	3870.8	3894.1	3844.3	3768.1	3715.2	3682.5	3676.3	3642.1	3597.0	3475.6	3271.8
25°	3827.2	3845.9	3808.5	3741.6	3713.6	3710.5	3715.2	3709.0	3699.6	3597.0	3402.5
27.5°	3824.1	3844.3	3802.3	3738.5	3723.0	3755.6	3760.3	3789.9	3797.7	3707.4	3528.5
30°	3850.5	3864.5	3824.1	3757.2	3749.4	3824.1	3825.7	3878.6	3891.0	3800.8	3653.0
32.5°	3908.1	3923.7	3883.2	3785.2	3774.3	3878.6	3883.2	3953.2	3973.5	3900.3	3783.6
35°	4043.5	4062.1	4015.5	3863.0	3824.1	3929.9	3943.9	4026.4	4066.8	4006.1	3919.0
37.5°	4381.1	4326.6	4262.8	4020.1	3937.7	4010.8	4034.1	4130.6	4202.2	4132.1	4080.8
40°	5219.6	5048.5	4849.4	4287.7	4136.8	4183.5	4202.2	4298.6	4396.6	4328.2	4303.3
42.5°	6478.3	6276.0	5955.5	4903.8	4437.1	4460.4	4474.4	4558.4	4696.9	4642.4	4648.7
45°	7600.0	7526.8	7200.1	5955.5	4998.7	4883.6	4900.7	4944.3	5148.1	5127.8	5168.3
47.5°	8461.9	8419.9	8167.8	7162.8	5947.7	5401.7	5449.9	5470.1	5764.2	5835.7	5944.6
50°	9124.6	9109.1	8883.5	8236.3	7187.7	6165.5	6182.7	6139.1	6579.4	6756.7	6963.7
52.5°	9750.1	9802.9	9636.5	9233.5	8511.7	7165.9	7162.8	6957.4	7551.7	7819.3	8172.5
55°	10314.8	10333.5	10350.6	10251.0	9843.4	8304.7	8275.2	7939.1	8679.7	8956.6	9339.3
57.5°	10845.3	10853.1	11005.6	11209.4	11229.6	9527.6	9473.1	9070.2	9911.9	10109.4	10344.4
60°	11201.6	11237.4	11559.4	12125.7	12373.1	10789.3	10759.8	10349.0	11165.8	11257.6	11214.0
62.5°	10688.2	10906.0	11718.1	12841.4	13452.8	12188.0	12174.0	11788.1	12485.1	12410.4	12037.0
65°	8651.7	9020.4	10448.6	13325.2	14512.3	13750.0	13770.2	13359.5	13840.2	13597.5	12706.0
67.5°	6052.0	6440.9	8130.5	13364.1	15696.2	15584.2	15700.9	15056.8	15279.3	14734.8	12864.7
70°	4185.0	4385.7	5485.7	12527.1	16618.8	18110.8	18107.7	17141.5	16710.6	15252.8	12055.7
72.5°	2814.4	2918.6	3562.7	9938.3	15940.5	19612.1	19521.9	18734.7	17192.9	14264.9	9849.6
75°	1187.1	1263.3	1649.1	5585.2	12611.1	17942.8	17698.5	16556.6	15276.2	11232.7	6145.3
77.5°	376.5	409.2	650.3	1999.2	6946.5	13487.0	13228.8	10339.7	10238.6	5635.0	2246.5
80°	178.9	208.5	365.6	802.8	2733.5	7335.5	7299.7	4690.7	4404.4	1521.5	451.2
82.5°	77.8	91.8	202.3	429.4	1222.8	2616.8	2669.7	1596.2	1320.9	577.2	138.5
85°	24.9	32.7	93.3	197.6	516.5	650.3	642.5	379.6	532.1	314.3	48.2
87.5°	0.0	0.0	31.1	45.1	52.9	37.3	42.0	32.7	147.8	87.1	17.1
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°	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0
2.5°	2509.5	2484.6	2441.0	2400.6	2364.8	2329.0	2307.2	2276.1	2273.0	2273.0	2280.8
5°	2526.6	2486.1	2408.3	2325.9	2231.0	2140.7	2050.5	1963.4	1935.4	1915.2	1924.5
7.5°	2576.4	2512.6	2389.7	2232.5	2052.1	1854.5	1716.0	1566.7	1509.1	1478.0	1482.7
10°	2647.9	2560.8	2374.1	2098.7	1806.3	1537.1	1339.5	1177.7	1115.5	1089.0	1089.0
12.5°	2727.3	2619.9	2346.1	1932.3	1537.1	1215.1	1022.1	947.5	938.1	938.1	938.1
15°	2822.2	2691.5	2297.9	1736.2	1255.5	961.5	893.0	896.1	905.5	911.7	911.7
17.5°	2920.2	2767.7	2221.6	1516.9	1006.6	865.0	866.6	871.2	879.0	885.2	885.2
20°	3026.0	2844.0	2120.5	1283.5	863.5	837.0	841.7	846.3	852.6	855.7	857.2
22.5°	3139.6	2915.5	2000.7	1054.8	815.2	813.7	815.2	819.9	827.7	827.7	830.8
25°	3260.9	2994.9	1863.8	888.3	790.3	790.3	793.4	796.6	802.8	802.8	804.3
27.5°	3385.4	3068.0	1719.1	801.2	768.6	767.0	767.0	771.7	774.8	776.3	777.9
30°	3522.3	3153.6	1574.4	782.6	751.4	743.7	739.0	742.1	745.2	746.8	749.9
32.5°	3662.3	3236.0	1445.3	790.3	734.3	720.3	704.8	701.7	701.7	707.9	712.5
35°	3817.9	3326.3	1345.7	816.8	725.0	686.1	661.2	647.2	648.8	658.1	662.8
37.5°	4004.6	3435.2	1272.6	840.1	718.8	647.2	606.8	589.6	578.7	589.6	586.5
40°	4248.8	3595.4	1219.7	858.8	711.0	602.1	547.6	519.6	499.4	505.6	502.5
42.5°	4608.2	3847.4	1199.5	860.3	693.9	549.2	487.0	449.6	420.1	421.6	415.4
45°	5112.3	4245.7	1303.7	840.1	656.5	491.6	423.2	373.4	354.7	350.0	343.8
47.5°	5803.0	4826.0	1544.9	798.1	602.1	435.6	360.9	318.9	304.9	297.2	292.5
50°	6728.7	5571.2	1812.5	751.4	547.6	382.7	309.6	283.2	273.8	266.0	264.5
52.5°	7802.2	6327.3	2031.8	704.8	493.2	336.0	276.9	261.4	253.6	247.4	245.8
55°	8787.0	6848.5	2019.4	655.0	440.3	298.7	253.6	244.3	234.9	228.7	225.6
57.5°	9400.0	6921.7	1664.7	600.5	379.6	269.1	231.8	225.6	214.7	206.9	205.4
60°	9681.6	6504.7	1166.8	529.0	318.9	241.1	208.5	205.4	191.4	180.5	177.4
62.5°	9732.9	5729.9	777.9	440.3	266.0	214.7	185.1	180.5	161.8	143.1	133.8
65°	9524.5	4622.2	538.3	343.8	227.1	186.7	158.7	149.4	129.1	110.5	104.2
67.5°	8864.8	3245.4	374.9	247.4	192.9	147.8	126.0	122.9	107.3	91.8	87.1
70°	7656.0	1849.8	250.5	185.1	152.5	101.1	99.6	102.7	87.1	74.7	68.5
72.5°	5869.9	846.3	155.6	135.4	104.2	68.5	79.3	80.9	66.9	56.0	49.8
75°	3455.4	362.5	98.0	87.1	52.9	45.1	57.6	59.1	45.1	35.8	31.1
77.5°	1176.2	136.9	62.2	51.3	26.4	24.9	37.3	37.3	24.9	14.0	10.9
80°	267.6	51.3	31.1	20.2	12.4	10.9	12.4	10.9	6.2	1.6	0.0
82.5°	76.2	20.2	12.4	7.8	4.7	4.7	1.6	0.0	0.0	0.0	0.0
85°	21.8	9.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	1.6	0.0	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)