

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: P942296

Luminaire Tested: **GALN-SB6B-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942296
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-SB6B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA 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: 24840 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 220.4
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



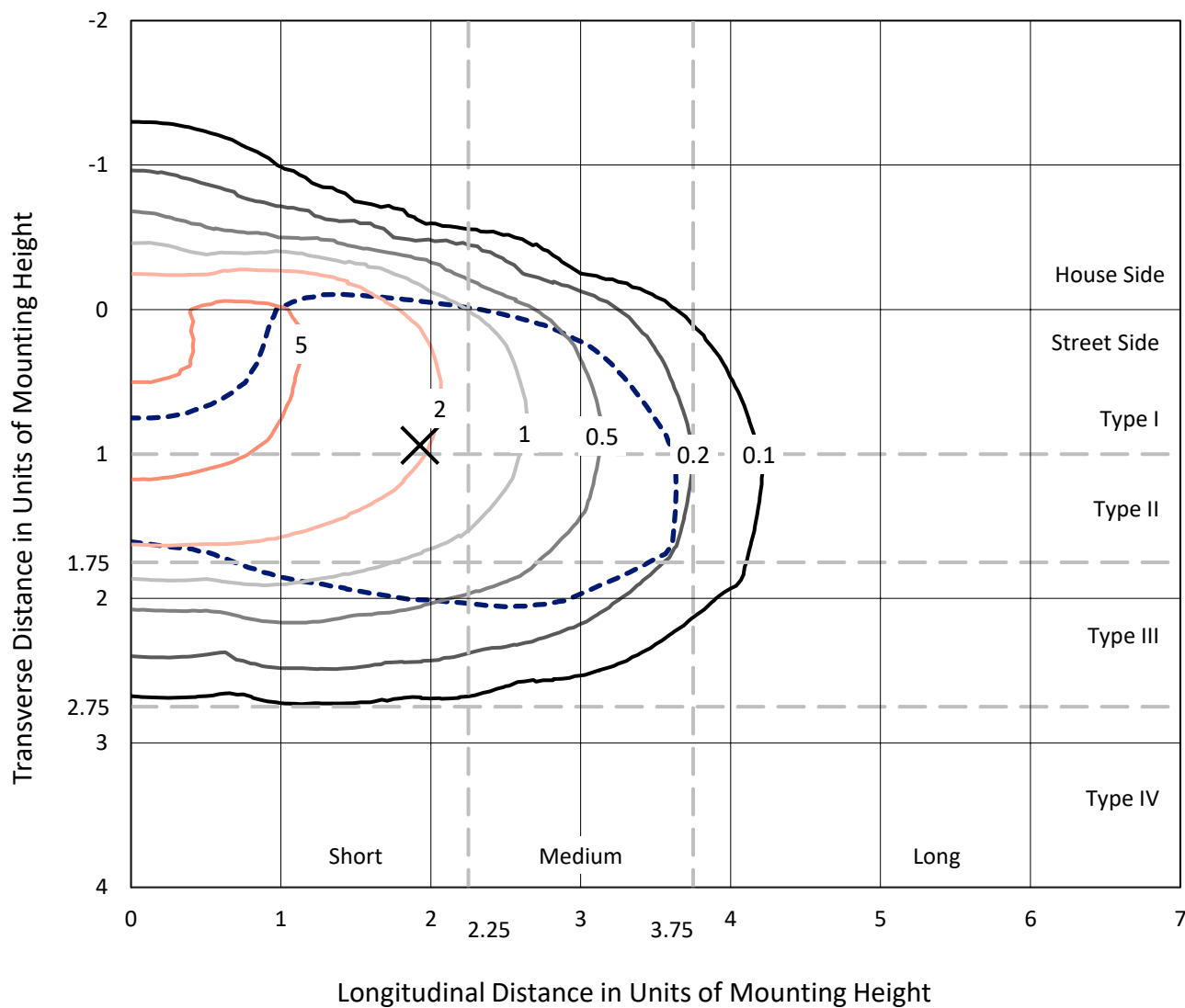
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

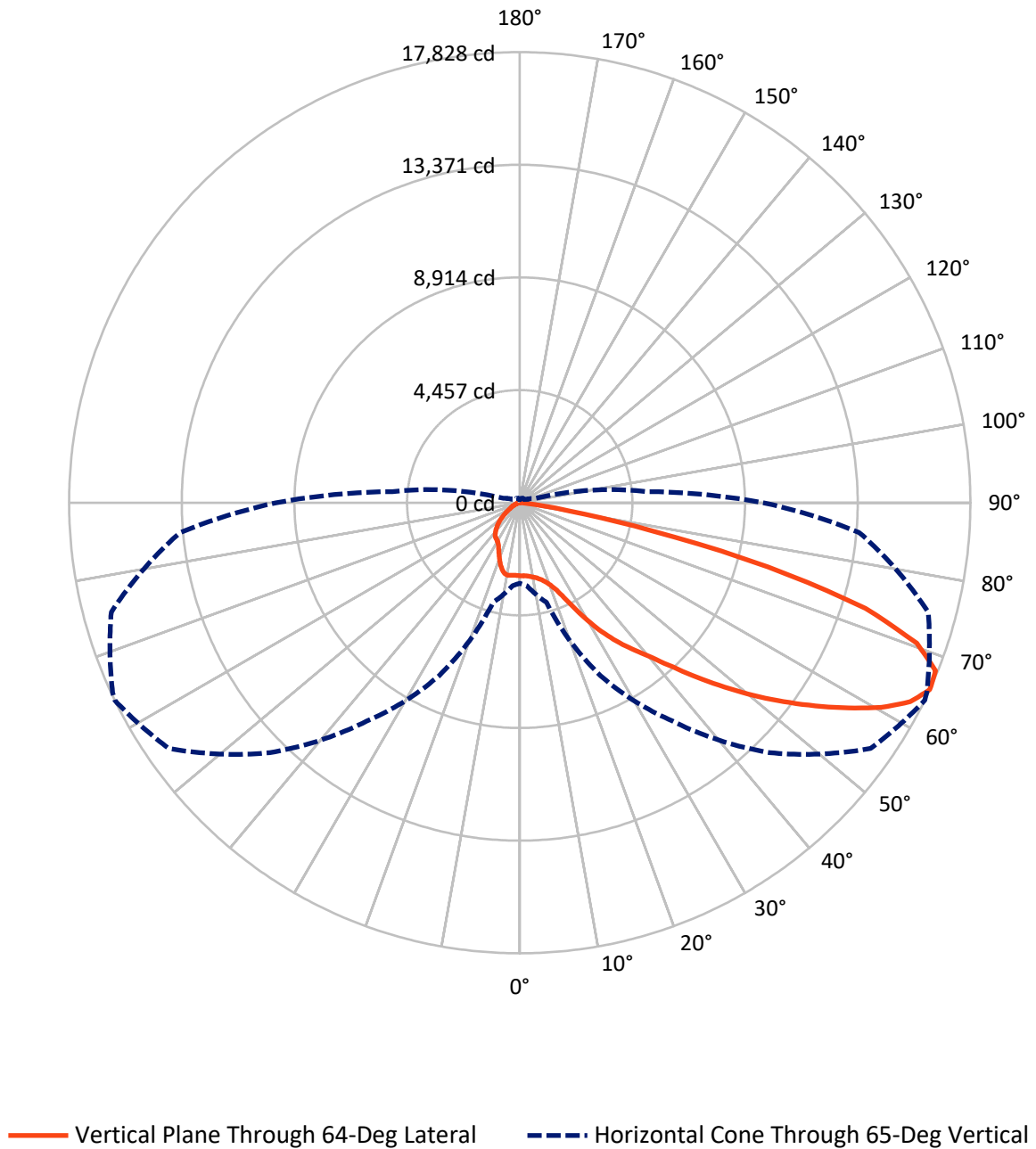


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3321.9	0.0	3321.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21518.1	0.0	21518.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	24840.0	0.0	24840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	1.1
10°-20°	723.0	2.9
20°-30°	1370.0	5.5
30°-40°	2772.2	11.2
40°-50°	4722.4	19.0
50°-60°	6422.1	25.9
60°-70°	6030.7	24.3
70°-80°	2416.1	9.7
80°-90°	117.1	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°	24840.0	100.0
0°-180°	24840.0	100.0

Coefficient of Utilization



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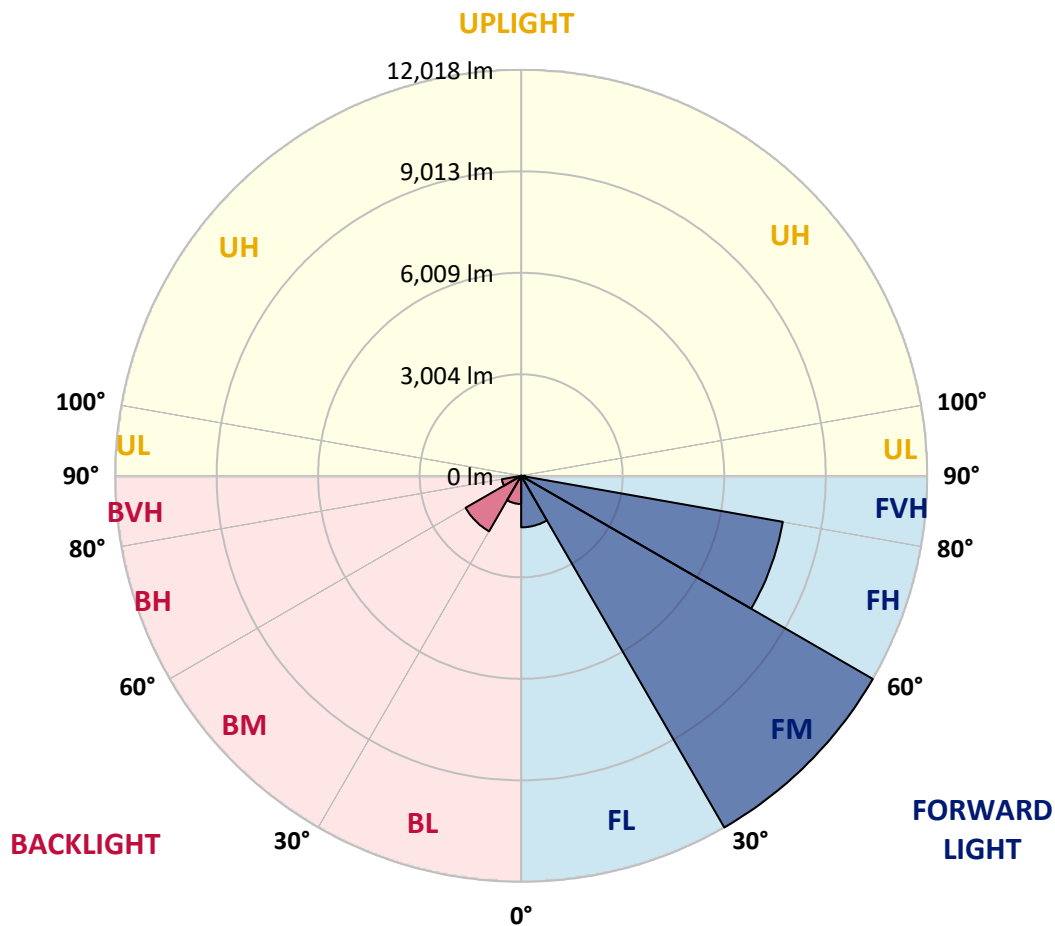
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1525.5	6.1			
FM	(30°-60°)	12017.6	48.4			
FH	(60°-80°)	7863.8	31.7			G4/12000
FVH	(80°-90°)	111.3	0.4			G2/225
BL	(0°-30°)	834.0	3.4	B2/1000		
BM	(30°-60°)	1899.1	7.6	B2/2500		
BH	(60°-80°)	583.0	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1
2.5°	2879.2	2899.1	2894.1	2889.1	2887.5	2890.8	2892.5	2890.8	2890.8	2890.8	2892.5
5°	2824.2	2840.9	2840.9	2852.5	2869.2	2889.1	2904.1	2907.5	2910.8	2915.8	2914.1
7.5°	2719.3	2732.6	2742.6	2780.9	2822.5	2875.8	2920.8	2944.1	2947.4	2965.7	2972.4
10°	2647.7	2664.3	2681.0	2721.0	2780.9	2860.8	2937.4	2994.1	3002.4	3045.7	3065.7
12.5°	2644.4	2661.0	2682.7	2726.0	2795.9	2880.8	2974.1	3055.7	3070.7	3133.9	3175.6
15°	2679.3	2699.3	2719.3	2772.6	2847.5	2950.8	3050.7	3152.3	3167.2	3257.2	3302.1
17.5°	2750.9	2777.6	2792.6	2845.9	2925.8	3040.7	3172.2	3288.8	3302.1	3407.0	3463.6
20°	2892.5	2924.1	2929.1	2972.4	3050.7	3173.9	3330.4	3475.3	3492.0	3611.9	3675.1
22.5°	3185.6	3230.5	3190.6	3212.2	3282.1	3405.4	3575.2	3758.4	3781.7	3918.3	3974.9
25°	3701.8	3765.1	3661.8	3625.2	3655.1	3783.4	3996.5	4228.0	4254.6	4364.5	4392.8
27.5°	4715.9	4634.3	4477.8	4324.6	4234.6	4307.9	4547.7	4834.1	4867.4	4974.0	4940.7
30°	5829.9	5758.3	5546.8	5207.1	4994.0	4982.3	5203.8	5523.5	5561.8	5663.4	5561.8
32.5°	6945.6	6877.3	6647.5	6229.6	5859.9	5676.7	5829.9	6184.6	6204.6	6269.5	6119.7
35°	8043.0	7973.1	7743.3	7315.3	6860.7	6444.4	6414.4	6814.1	6820.7	6889.0	6665.9
37.5°	9147.0	9088.7	8844.0	8424.3	7976.4	7401.9	7123.8	7410.2	7418.5	7485.1	7253.7
40°	9934.7	9959.7	9791.5	9466.8	9082.1	8454.3	7919.8	8044.7	7994.7	8106.3	7968.1
42.5°	10610.8	10660.7	10514.2	10351.0	10127.8	9575.0	8905.6	8883.9	8804.0	8863.9	8720.7
45°	11195.2	11236.9	11105.3	11067.0	11062.0	10674.0	9983.0	9853.1	9741.5	9729.9	9558.3
47.5°	11410.1	11490.0	11546.6	11674.8	11924.6	11761.4	11097.0	10895.5	10770.6	10679.0	10407.6
50°	11491.7	11576.6	11769.7	12142.8	12733.9	12803.8	12206.0	11979.6	11826.4	11659.8	11260.2
52.5°	11381.8	11533.3	11793.1	12420.8	13278.4	13639.8	13270.1	13071.9	12897.1	12625.7	12032.9
55°	10734.0	10885.5	11416.7	12417.5	13549.9	14225.9	14275.9	14187.6	13991.1	13563.2	12657.3
57.5°	9368.5	9593.3	10434.2	11994.6	13544.9	14730.5	15261.7	15325.0	15105.2	14492.4	13148.5
60°	7476.8	7781.6	8807.3	11057.0	13126.9	15003.6	16126.0	16442.3	16209.2	15408.2	13546.5
62.5°	5217.1	5570.1	6541.0	9588.3	12171.1	14807.1	16757.1	17341.6	17165.0	16227.5	13699.7
65°	3182.2	3295.5	4078.1	7545.1	10545.8	13984.5	16951.9	17827.8	17769.5	16728.8	13473.3
67.5°	2119.8	2214.7	2439.5	5173.8	8186.2	12340.9	16485.6	17742.9	17759.5	16647.2	12644.0
70°	1277.2	1358.8	1505.4	3009.0	5305.4	9768.2	15041.9	16660.5	16757.1	15556.4	11072.0
72.5°	526.2	581.2	714.4	1363.8	2747.6	6199.6	11977.9	14304.2	14529.0	13080.3	8497.6
75°	298.1	326.4	419.6	684.4	1192.3	2889.1	7255.3	10154.5	10485.9	9015.5	5112.2
77.5°	198.2	211.5	271.4	442.9	671.1	985.8	3100.6	5290.4	5923.2	4924.0	2213.1
80°	133.2	144.9	186.5	296.4	436.3	423.0	987.5	1960.0	2411.2	1691.9	539.5
82.5°	89.9	91.6	133.2	194.8	276.4	204.8	291.4	609.5	766.0	489.6	204.8
85°	51.6	50.0	98.2	113.2	123.2	84.9	88.3	183.2	239.8	206.5	116.6
87.5°	6.7	10.0	38.3	30.0	16.7	18.3	18.3	31.6	46.6	50.0	25.0
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°	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1
2.5°	2892.5	2890.8	2885.8	2880.8	2869.2	2862.5	2865.8	2862.5	2860.8	2862.5	2869.2
5°	2914.1	2909.1	2895.8	2879.2	2855.8	2827.5	2809.2	2782.6	2757.6	2742.6	2745.9
7.5°	2972.4	2967.4	2949.1	2902.5	2827.5	2709.3	2601.1	2506.2	2434.5	2392.9	2394.6
10°	3065.7	3057.3	3029.0	2925.8	2729.3	2471.2	2256.4	2078.2	1961.6	1906.7	1901.7
12.5°	3175.6	3165.6	3115.6	2904.1	2542.8	2139.8	1843.4	1645.2	1537.0	1488.7	1483.7
15°	3305.5	3292.1	3193.9	2800.9	2271.4	1773.5	1502.0	1353.8	1283.9	1240.6	1242.3
17.5°	3467.0	3443.7	3252.2	2646.0	1976.6	1493.7	1292.2	1180.6	1119.0	1077.4	1074.1
20°	3676.8	3638.5	3298.8	2461.2	1705.2	1317.2	1150.7	1057.4	1010.8	974.2	967.5
22.5°	3969.9	3914.9	3355.4	2261.4	1513.7	1195.6	1045.8	977.5	939.2	897.6	890.9
25°	4332.9	4267.9	3425.3	2076.5	1382.1	1090.7	969.2	912.5	867.6	819.3	814.3
27.5°	4840.8	4724.2	3508.6	1925.0	1268.9	1000.8	899.2	835.9	784.3	744.4	736.0
30°	5407.0	5215.5	3581.9	1833.4	1165.7	917.5	807.6	744.4	696.1	667.8	662.8
32.5°	5943.2	5683.4	3630.2	1793.4	1072.4	822.6	707.7	639.4	602.8	594.5	599.5
35°	6449.4	6106.3	3625.2	1755.1	989.1	727.7	609.5	539.5	511.2	516.2	516.2
37.5°	7032.2	6557.6	3590.2	1695.2	920.9	641.1	524.5	462.9	438.0	439.6	446.3
40°	7710.0	7078.8	3568.6	1582.0	845.9	561.2	454.6	404.6	386.3	379.7	378.0
42.5°	8432.7	7583.4	3571.9	1453.7	752.7	489.6	406.3	364.7	348.0	343.0	341.4
45°	9158.7	8064.6	3576.9	1320.5	654.4	434.6	371.3	336.4	326.4	319.7	319.7
47.5°	9841.4	8474.3	3483.6	1177.3	557.8	393.0	343.0	319.7	311.4	303.1	303.1
50°	10477.5	8747.4	3258.8	1010.8	481.2	359.7	321.4	304.7	296.4	288.1	288.1
52.5°	10972.1	8790.7	2887.5	839.3	428.0	334.7	308.1	293.1	283.1	274.8	273.1
55°	11191.9	8519.2	2359.6	679.4	386.3	313.1	294.7	279.8	268.1	259.8	258.1
57.5°	11135.3	7948.1	1840.1	546.2	346.4	291.4	278.1	268.1	254.8	241.5	239.8
60°	10857.2	7183.7	1387.1	454.6	309.7	268.1	259.8	251.4	233.1	213.1	209.8
62.5°	10376.0	6222.9	989.1	376.3	269.8	241.5	238.1	231.5	204.8	168.2	164.9
65°	9639.9	5055.6	666.1	313.1	231.5	211.5	213.1	201.5	166.5	124.9	121.6
67.5°	8564.2	3696.8	426.3	256.4	193.2	176.5	178.2	171.5	141.5	106.6	101.6
70°	7193.7	2447.9	278.1	194.8	154.9	136.5	146.5	148.2	119.9	86.6	83.3
72.5°	5273.7	1445.4	194.8	144.9	113.2	94.9	119.9	123.2	96.6	64.9	61.6
75°	3005.7	686.1	146.5	104.9	69.9	66.6	93.3	93.3	66.6	43.3	40.0
77.5°	1262.2	286.4	103.2	68.3	40.0	38.3	63.3	58.3	33.3	20.0	20.0
80°	364.7	128.2	55.0	33.3	16.7	15.0	25.0	18.3	8.3	3.3	3.3
82.5°	143.2	56.6	21.6	13.3	6.7	6.7	3.3	0.0	0.0	0.0	0.0
85°	84.9	23.3	10.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	5.0	3.3	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)