

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: P941116

Luminaire Tested: **GALN-SB4C-730-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941116
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-SB4C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 23540 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 200.7
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

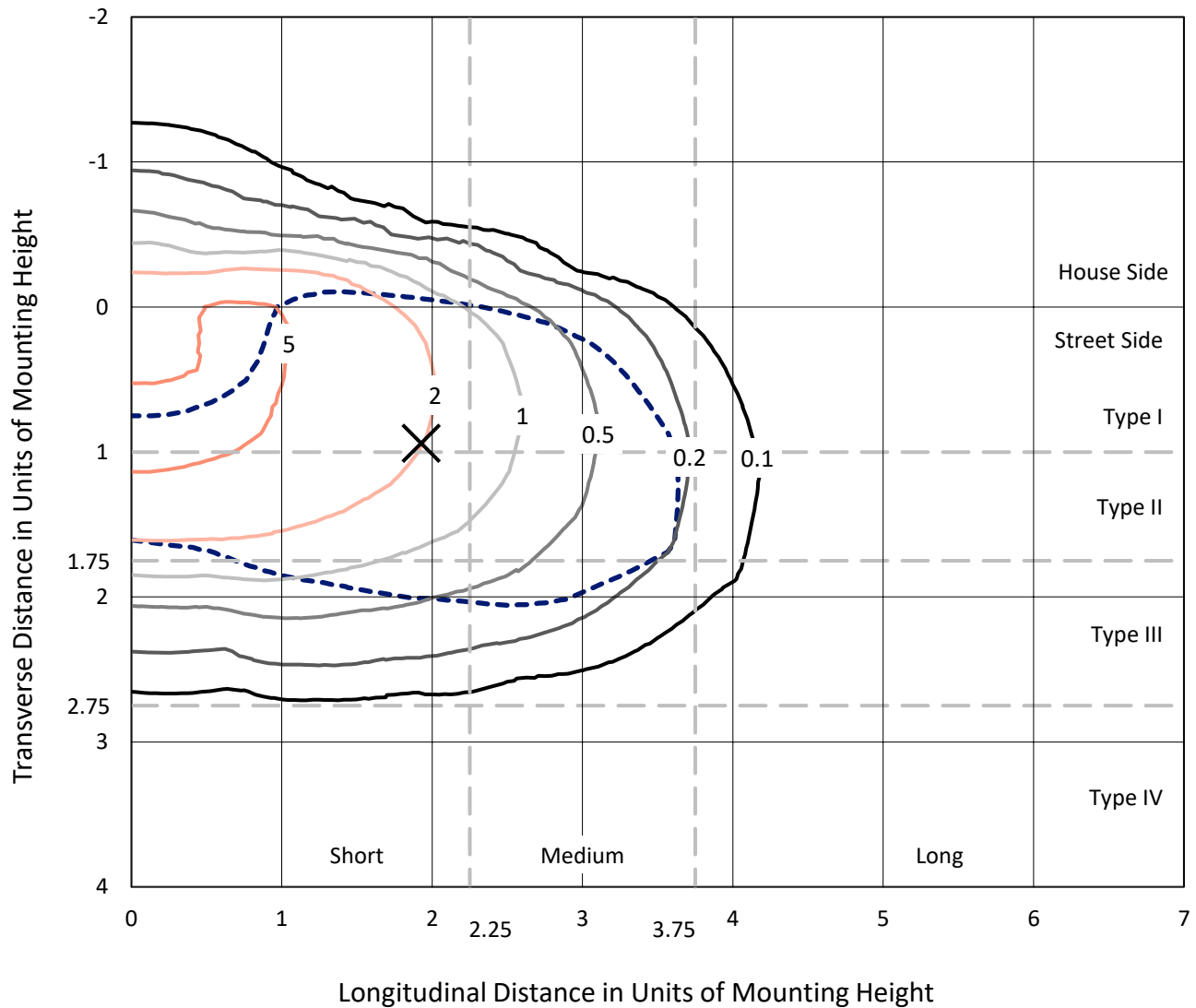


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

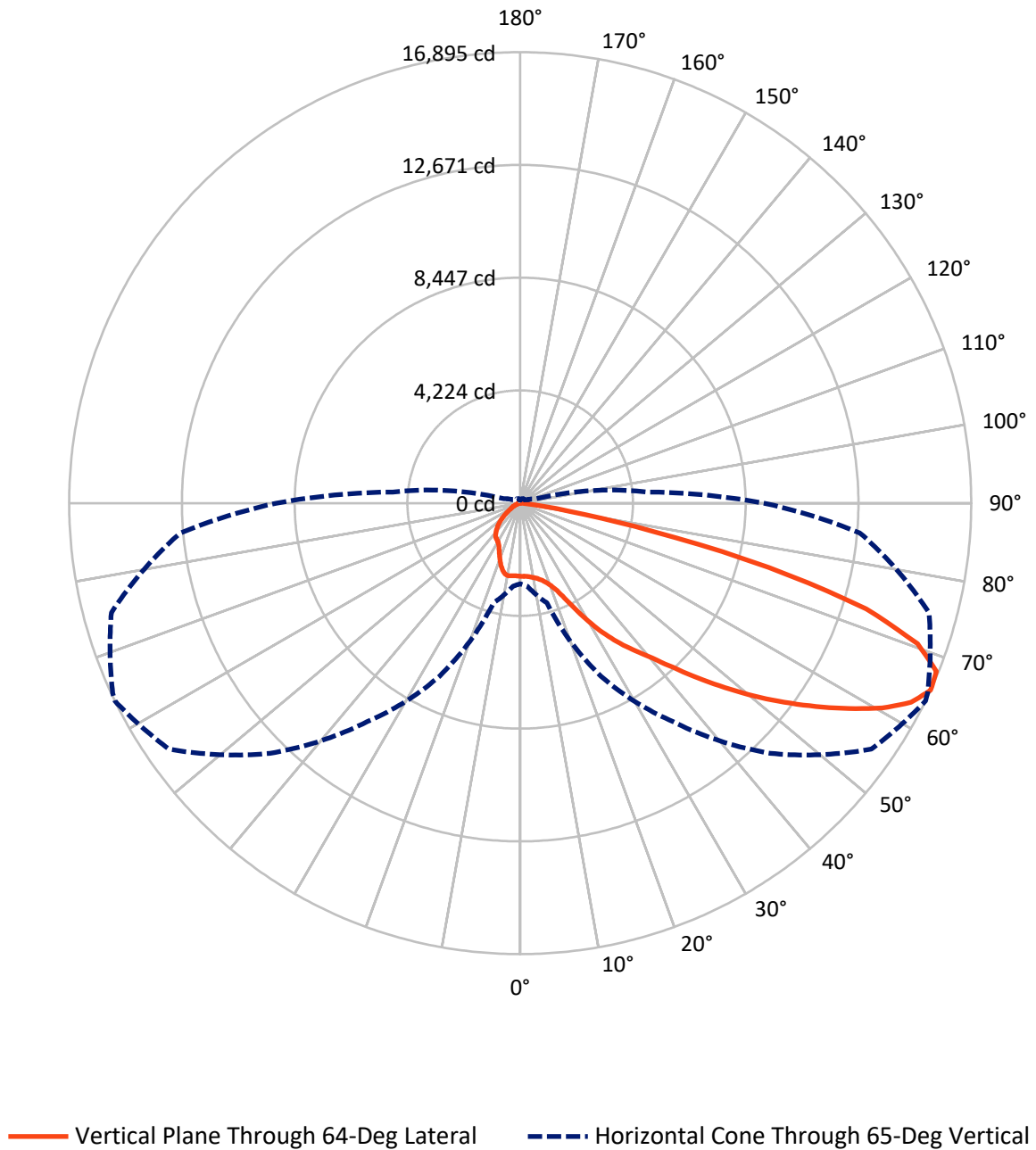


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3148.0	0.0	3148.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20392.0	0.0	20392.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	23540.0	0.0	23540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.6	1.1
10°-20°	685.1	2.9
20°-30°	1298.3	5.5
30°-40°	2627.1	11.2
40°-50°	4475.2	19.0
50°-60°	6086.0	25.9
60°-70°	5715.1	24.3
70°-80°	2289.7	9.7
80°-90°	110.9	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°	23540.0	100.0
0°-180°	23540.0	100.0

Coefficient of Utilization



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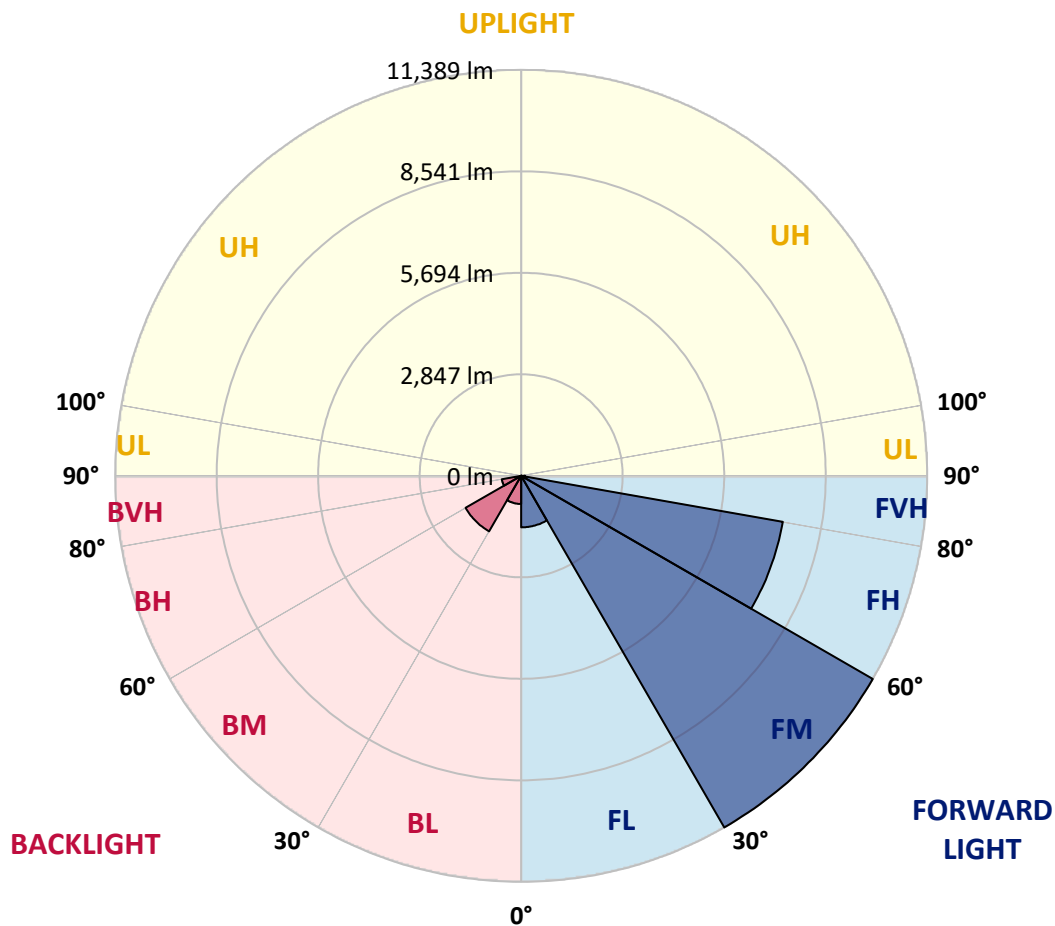
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1445.6	6.1			
FM	(30°-60°)	11388.6	48.4			
FH	(60°-80°)	7452.2	31.7			G3/7500
FVH	(80°-90°)	105.5	0.4			G2/225
BL	(0°-30°)	790.4	3.4	B2/1000		
BM	(30°-60°)	1799.7	7.6	B2/2500		
BH	(60°-80°)	552.5	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°	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9
2.5°	2728.5	2747.4	2742.7	2737.9	2736.4	2739.5	2741.1	2739.5	2739.5	2739.5	2741.1
5°	2676.4	2692.2	2692.2	2703.2	2719.0	2737.9	2752.1	2755.3	2758.5	2763.2	2761.6
7.5°	2577.0	2589.6	2599.1	2635.4	2674.8	2725.3	2767.9	2790.0	2793.2	2810.5	2816.8
10°	2509.1	2524.9	2540.7	2578.6	2635.4	2711.1	2783.7	2837.4	2845.3	2886.3	2905.2
12.5°	2506.0	2521.8	2542.3	2583.3	2649.6	2730.1	2818.4	2895.8	2910.0	2969.9	3009.4
15°	2539.1	2558.0	2577.0	2627.5	2698.5	2796.3	2891.0	2987.3	3001.5	3086.7	3129.3
17.5°	2607.0	2632.2	2646.4	2696.9	2772.7	2881.6	3006.2	3116.7	3129.3	3228.7	3282.4
20°	2741.1	2771.1	2775.8	2816.8	2891.0	3007.8	3156.1	3293.4	3309.2	3422.8	3482.8
22.5°	3018.8	3061.5	3023.6	3044.1	3110.4	3227.1	3388.1	3561.7	3583.8	3713.2	3766.8
25°	3508.0	3568.0	3470.2	3435.5	3463.9	3585.4	3787.4	4006.7	4032.0	4136.1	4162.9
27.5°	4469.1	4391.8	4243.4	4098.2	4013.0	4082.5	4309.7	4581.1	4612.7	4713.7	4682.1
30°	5524.8	5457.0	5256.5	4934.6	4732.6	4721.6	4931.5	5234.4	5270.7	5367.0	5270.7
32.5°	6582.1	6517.4	6299.6	5903.5	5553.2	5379.6	5524.8	5860.9	5879.9	5941.4	5799.4
35°	7622.1	7555.8	7338.0	6932.4	6501.6	6107.1	6078.7	6457.5	6463.8	6528.5	6317.0
37.5°	8668.3	8613.1	8381.1	7983.4	7558.9	7014.5	6751.0	7022.4	7030.3	7093.4	6874.1
40°	9414.7	9438.4	9279.0	8971.3	8606.8	8011.8	7505.3	7623.6	7576.3	7682.0	7551.1
42.5°	10055.4	10102.8	9963.9	9809.3	9597.8	9073.9	8439.5	8419.0	8343.2	8400.1	8264.3
45°	10609.3	10648.8	10524.1	10487.8	10483.1	10115.4	9460.5	9337.4	9231.7	9220.6	9058.1
47.5°	10812.9	10888.7	10942.3	11063.8	11300.5	11145.9	10516.2	10325.3	10206.9	10120.1	9862.9
50°	10890.2	10970.7	11153.8	11507.3	12067.5	12133.8	11567.2	11352.6	11207.4	11049.6	10670.9
52.5°	10786.1	10929.7	11175.9	11770.8	12583.5	12925.9	12575.6	12387.8	12222.1	11964.9	11403.1
55°	10172.2	10315.8	10819.2	11767.6	12840.7	13481.4	13528.8	13445.1	13258.9	12853.4	11994.9
57.5°	8878.2	9091.2	9888.2	11366.8	12836.0	13959.6	14463.0	14523.0	14314.6	13733.9	12460.4
60°	7085.5	7374.3	8346.4	10478.4	12439.9	14218.4	15282.0	15581.8	15360.9	14601.9	12837.6
62.5°	4944.1	5278.6	6198.6	9086.5	11534.1	14032.2	15880.1	16434.0	16266.7	15378.3	12982.8
65°	3015.7	3123.0	3864.7	7150.2	9993.9	13252.6	16064.7	16894.8	16839.6	15853.3	12768.1
67.5°	2008.9	2098.8	2311.9	4903.1	7757.8	11695.1	15622.9	16814.3	16830.1	15775.9	11982.3
70°	1210.4	1287.7	1426.6	2851.6	5027.7	9256.9	14254.7	15788.6	15880.1	14742.3	10492.6
72.5°	498.7	550.7	677.0	1292.4	2603.8	5875.1	11351.0	13555.6	13768.6	12395.7	8052.9
75°	282.5	309.3	397.7	648.6	1129.9	2737.9	6875.6	9623.1	9937.1	8543.7	4844.7
77.5°	187.8	200.4	257.2	419.8	636.0	934.2	2938.4	5013.5	5613.2	4666.3	2097.3
80°	126.2	137.3	176.7	280.9	413.5	400.8	935.8	1857.4	2285.0	1603.3	511.3
82.5°	85.2	86.8	126.2	184.6	262.0	194.1	276.2	577.6	725.9	464.0	194.1
85°	48.9	47.3	93.1	107.3	116.8	80.5	83.6	173.6	227.2	195.7	110.5
87.5°	6.3	9.5	36.3	28.4	15.8	17.4	17.4	30.0	44.2	47.3	23.7
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°	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9
2.5°	2741.1	2739.5	2734.8	2730.1	2719.0	2712.7	2715.9	2712.7	2711.1	2712.7	2719.0
5°	2761.6	2756.9	2744.3	2728.5	2706.4	2679.6	2662.2	2637.0	2613.3	2599.1	2602.2
7.5°	2816.8	2812.1	2794.8	2750.6	2679.6	2567.5	2464.9	2375.0	2307.1	2267.7	2269.3
10°	2905.2	2897.3	2870.5	2772.7	2586.5	2341.9	2138.3	1969.4	1859.0	1806.9	1802.2
12.5°	3009.4	2999.9	2952.6	2752.1	2409.7	2027.8	1746.9	1559.1	1456.6	1410.8	1406.1
15°	3132.5	3119.8	3026.7	2654.3	2152.5	1680.6	1423.4	1283.0	1216.7	1175.7	1177.2
17.5°	3285.5	3263.4	3082.0	2507.5	1873.2	1415.5	1224.6	1118.8	1060.5	1021.0	1017.9
20°	3484.4	3448.1	3126.2	2332.4	1615.9	1248.3	1090.4	1002.1	957.9	923.2	916.9
22.5°	3762.1	3710.0	3179.8	2143.0	1434.5	1133.1	991.0	926.3	890.0	850.6	844.3
25°	4106.1	4044.6	3246.1	1967.8	1309.8	1033.6	918.4	864.8	822.2	776.4	771.7
27.5°	4587.4	4477.0	3325.0	1824.2	1202.5	948.4	852.2	792.2	743.3	705.4	697.5
30°	5124.0	4942.5	3394.4	1737.5	1104.6	869.5	765.4	705.4	659.6	632.8	628.1
32.5°	5632.1	5385.9	3440.2	1699.6	1016.3	779.6	670.7	606.0	571.3	563.4	568.1
35°	6111.9	5786.8	3435.5	1663.3	937.4	689.6	577.6	511.3	484.5	489.2	489.2
37.5°	6664.2	6214.4	3402.3	1606.5	872.7	607.6	497.1	438.7	415.0	416.6	422.9
40°	7306.5	6708.4	3381.8	1499.2	801.7	531.8	430.8	383.5	366.1	359.8	358.2
42.5°	7991.3	7186.5	3385.0	1377.7	713.3	464.0	385.0	345.6	329.8	325.1	323.5
45°	8679.4	7642.6	3389.7	1251.4	620.2	411.9	351.9	318.8	309.3	303.0	303.0
47.5°	9326.4	8030.8	3301.3	1115.7	528.7	372.4	325.1	303.0	295.1	287.2	287.2
50°	9929.2	8289.6	3088.3	957.9	456.1	340.9	304.6	288.8	280.9	273.0	273.0
52.5°	10397.9	8330.6	2736.4	795.3	405.6	317.2	291.9	277.7	268.3	260.4	258.8
55°	10606.2	8073.4	2236.1	643.9	366.1	296.7	279.3	265.1	254.1	246.2	244.6
57.5°	10552.5	7532.1	1743.8	517.6	328.2	276.2	263.5	254.1	241.4	228.8	227.2
60°	10289.0	6807.8	1314.5	430.8	293.5	254.1	246.2	238.3	220.9	202.0	198.8
62.5°	9832.9	5897.2	937.4	356.6	255.6	228.8	225.7	219.4	194.1	159.4	156.2
65°	9135.4	4791.0	631.2	296.7	219.4	200.4	202.0	190.9	157.8	118.4	115.2
67.5°	8116.0	3503.3	404.0	243.0	183.1	167.3	168.9	162.5	134.1	101.0	96.3
70°	6817.2	2319.8	263.5	184.6	146.8	129.4	138.9	140.4	113.6	82.1	78.9
72.5°	4997.7	1369.8	184.6	137.3	107.3	89.9	113.6	116.8	91.5	61.5	58.4
75°	2848.4	650.2	138.9	99.4	66.3	63.1	88.4	88.4	63.1	41.0	37.9
77.5°	1196.2	271.4	97.8	64.7	37.9	36.3	60.0	55.2	31.6	18.9	18.9
80°	345.6	121.5	52.1	31.6	15.8	14.2	23.7	17.4	7.9	3.2	3.2
82.5°	135.7	53.7	20.5	12.6	6.3	6.3	3.2	0.0	0.0	0.0	0.0
85°	80.5	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)