

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: P942126

Luminaire Tested: **GALN-SB6A-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942126
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-SB6A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 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: 19788 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 170.9
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



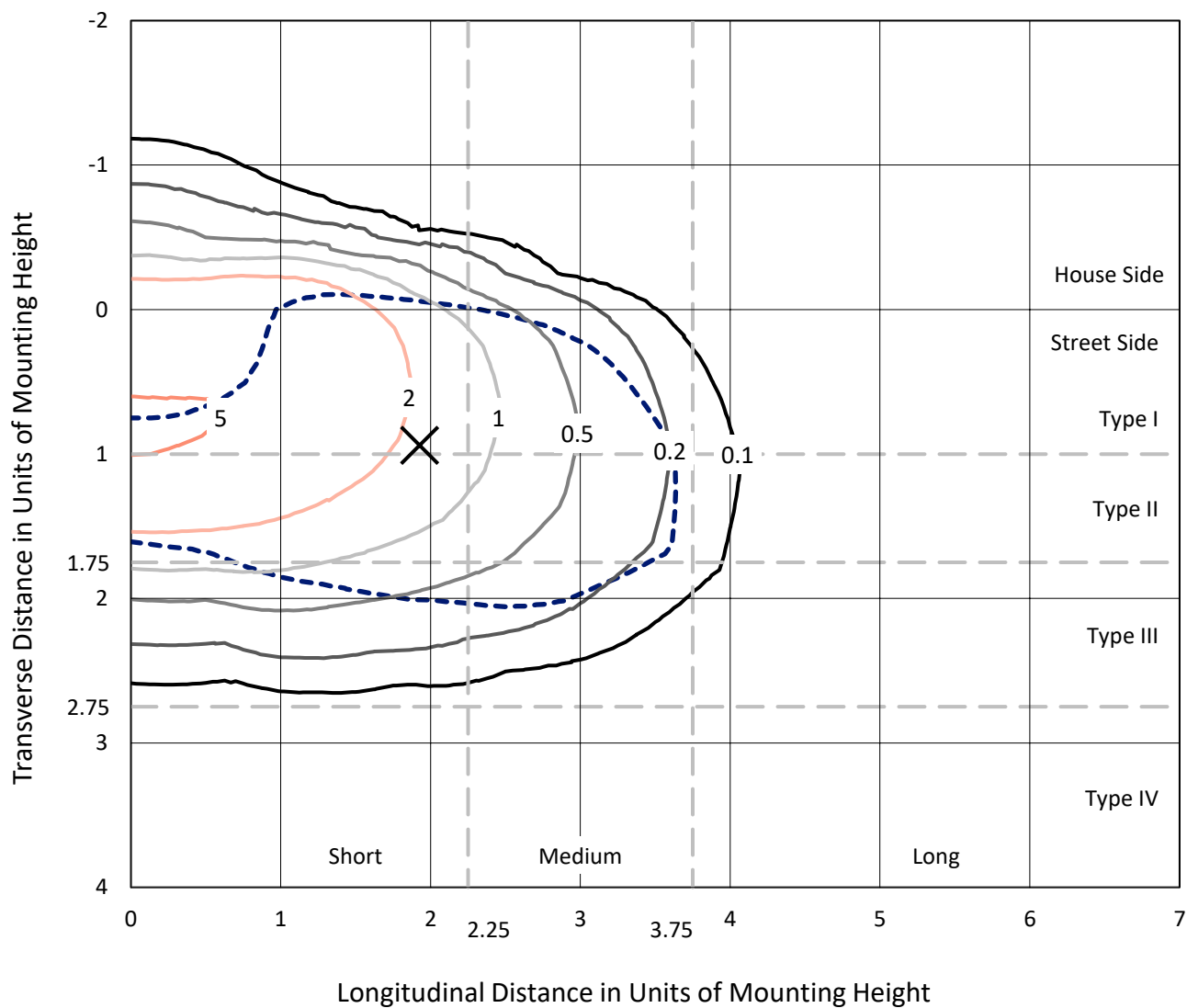
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

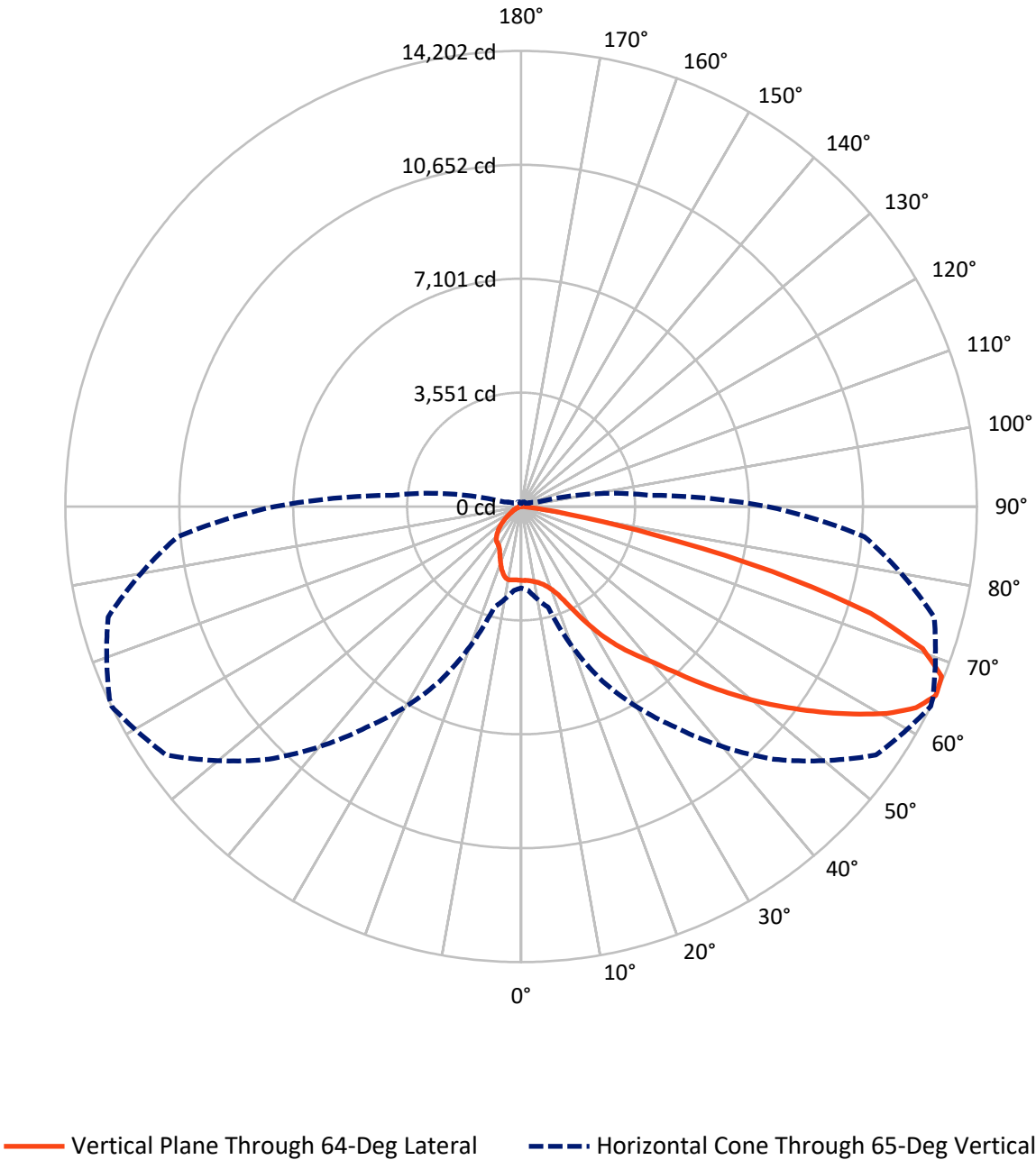
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2646.3	0.0	2646.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17141.7	0.0	17141.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	19788.0	0.0	19788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.1
10°-20°	575.9	2.9
20°-30°	1091.3	5.5
30°-40°	2208.4	11.2
40°-50°	3761.9	19.0
50°-60°	5116.0	25.9
60°-70°	4804.1	24.3
70°-80°	1924.7	9.7
80°-90°	93.3	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°	19788.0	100.0
0°-180°	19788.0	100.0

Coefficient of Utilization



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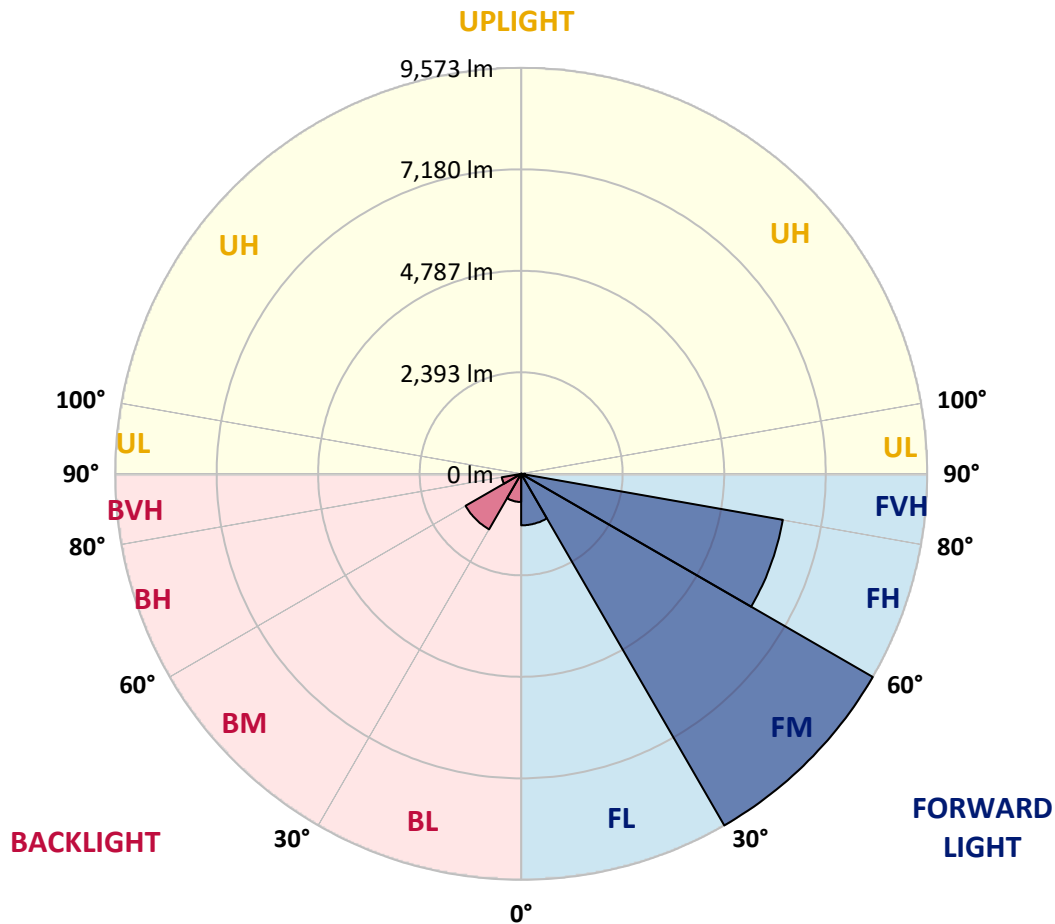
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1215.2	6.1			
FM	(30°-60°)	9573.4	48.4			
FH	(60°-80°)	6264.4	31.7			G3/7500
FVH	(80°-90°)	88.7	0.4			G1/100
BL	(0°-30°)	664.4	3.4	B2/1000		
BM	(30°-60°)	1512.8	7.6	B2/2500		
BH	(60°-80°)	464.5	2.3	B1/500		G1/500
BVH	(80°-90°)	4.6	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°	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5
2.5°	2293.6	2309.5	2305.5	2301.5	2300.2	2302.9	2304.2	2302.9	2302.9	2302.9	2304.2
5°	2249.8	2263.1	2263.1	2272.4	2285.6	2301.5	2313.5	2316.1	2318.8	2322.8	2321.4
7.5°	2166.2	2176.9	2184.8	2215.3	2248.5	2290.9	2326.8	2345.3	2348.0	2362.6	2367.9
10°	2109.2	2122.5	2135.7	2167.6	2215.3	2279.0	2340.0	2385.1	2391.8	2426.2	2442.2
12.5°	2106.5	2119.8	2137.1	2171.5	2227.3	2294.9	2369.2	2434.2	2446.1	2496.6	2529.7
15°	2134.4	2150.3	2166.2	2208.7	2268.4	2350.6	2430.2	2511.1	2523.1	2594.7	2630.5
17.5°	2191.4	2212.7	2224.6	2267.1	2330.7	2422.3	2527.1	2619.9	2630.5	2714.1	2759.2
20°	2304.2	2329.4	2333.4	2367.9	2430.2	2528.4	2653.1	2768.5	2781.8	2877.3	2927.7
22.5°	2537.7	2573.5	2541.7	2558.9	2614.6	2712.8	2848.1	2994.0	3012.6	3121.4	3166.5
25°	2948.9	2999.3	2917.1	2887.9	2911.8	3013.9	3183.7	3368.1	3389.3	3476.9	3499.4
27.5°	3756.8	3691.8	3567.1	3445.0	3373.4	3431.8	3622.8	3851.0	3877.5	3962.4	3935.8
30°	4644.2	4587.2	4418.7	4148.1	3978.3	3969.0	4145.4	4400.1	4430.6	4511.6	4430.6
32.5°	5533.0	5478.6	5295.6	4962.6	4668.1	4522.2	4644.2	4926.8	4942.7	4994.4	4875.0
35°	6407.2	6351.5	6168.4	5827.5	5465.4	5133.7	5109.8	5428.2	5433.5	5487.9	5310.1
37.5°	7286.7	7240.3	7045.3	6711.0	6354.1	5896.5	5674.9	5903.1	5909.7	5962.8	5778.4
40°	7914.1	7934.0	7800.1	7541.4	7235.0	6734.9	6309.0	6408.5	6368.7	6457.6	6347.5
42.5°	8452.7	8492.5	8375.8	8245.8	8068.0	7627.6	7094.3	7077.1	7013.4	7061.2	6947.1
45°	8918.3	8951.5	8846.7	8816.2	8812.2	8503.1	7952.6	7849.1	7760.3	7751.0	7614.3
47.5°	9089.5	9153.1	9198.2	9300.4	9499.4	9369.4	8840.1	8679.6	8580.1	8507.1	8290.9
50°	9154.5	9222.1	9376.0	9673.1	10144.1	10199.8	9723.6	9543.1	9421.1	9288.4	8970.1
52.5°	9066.9	9187.6	9394.6	9894.7	10577.8	10865.7	10571.2	10413.4	10274.1	10057.8	9585.6
55°	8550.9	8671.6	9094.8	9892.0	10794.1	11332.6	11372.4	11302.1	11145.6	10804.7	10083.0
57.5°	7463.1	7642.2	8312.1	9555.1	10790.1	11734.6	12157.8	12208.2	12033.1	11544.9	10474.4
60°	5956.2	6198.9	7016.1	8808.2	10457.1	11952.1	12846.2	13098.3	12912.6	12274.5	10791.4
62.5°	4156.1	4437.3	5210.7	7638.2	9695.7	11795.6	13349.0	13814.6	13674.0	12927.1	10913.5
65°	2535.0	2625.2	3248.7	6010.6	8401.0	11140.3	13504.2	14202.0	14155.5	13326.4	10733.0
67.5°	1688.7	1764.3	1943.4	4121.6	6521.3	9831.0	13132.8	14134.3	14147.6	13261.4	10072.4
70°	1017.5	1082.5	1199.2	2397.1	4226.4	7781.5	11982.7	13272.0	13349.0	12392.6	8820.2
72.5°	419.2	463.0	569.1	1086.4	2188.8	4938.7	9541.8	11395.0	11574.1	10420.0	6769.3
75°	237.5	260.0	334.3	545.2	949.8	2301.5	5779.7	8089.3	8353.2	7181.9	4072.5
77.5°	157.9	168.5	216.2	352.9	534.6	785.3	2470.0	4214.4	4718.5	3922.6	1763.0
80°	106.1	115.4	148.6	236.1	347.6	336.9	786.6	1561.3	1920.8	1347.8	429.8
82.5°	71.6	73.0	106.1	155.2	220.2	163.2	232.1	485.5	610.2	390.0	163.2
85°	41.1	39.8	78.3	90.2	98.2	67.7	70.3	145.9	191.0	164.5	92.9
87.5°	5.3	8.0	30.5	23.9	13.3	14.6	14.6	25.2	37.1	39.8	19.9
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°	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5	2301.5
2.5°	2304.2	2302.9	2298.9	2294.9	2285.6	2280.3	2283.0	2280.3	2279.0	2280.3	2285.6
5°	2321.4	2317.5	2306.9	2293.6	2275.0	2252.5	2237.9	2216.7	2196.8	2184.8	2187.5
7.5°	2367.9	2363.9	2349.3	2312.2	2252.5	2158.3	2072.1	1996.4	1939.4	1906.2	1907.6
10°	2442.2	2435.5	2413.0	2330.7	2174.2	1968.6	1797.5	1655.5	1562.7	1518.9	1514.9
12.5°	2529.7	2521.8	2482.0	2313.5	2025.6	1704.6	1468.5	1310.6	1224.4	1185.9	1181.9
15°	2633.2	2622.6	2544.3	2231.2	1809.4	1412.8	1196.5	1078.5	1022.8	988.3	989.6
17.5°	2761.9	2743.3	2590.7	2107.9	1574.6	1189.9	1029.4	940.5	891.4	858.3	855.6
20°	2929.0	2898.5	2627.9	1960.6	1358.4	1049.3	916.6	842.4	805.2	776.0	770.7
22.5°	3162.5	3118.7	2673.0	1801.4	1205.8	952.5	833.1	778.7	748.2	715.0	709.7
25°	3451.7	3399.9	2728.7	1654.2	1101.0	868.9	772.0	726.9	691.1	652.7	648.7
27.5°	3856.3	3763.4	2795.0	1533.5	1010.8	797.3	716.3	665.9	624.8	593.0	586.3
30°	4307.3	4154.7	2853.4	1460.5	928.6	730.9	643.4	593.0	554.5	531.9	528.0
32.5°	4734.4	4527.5	2891.9	1428.7	854.3	655.3	563.8	509.4	480.2	473.6	477.6
35°	5137.7	4864.4	2887.9	1398.2	788.0	579.7	485.5	429.8	407.2	411.2	411.2
37.5°	5602.0	5223.9	2860.0	1350.4	733.6	510.7	417.9	368.8	348.9	350.2	355.5
40°	6141.9	5639.1	2842.8	1260.2	673.9	447.0	362.1	322.3	307.8	302.5	301.1
42.5°	6717.6	6041.1	2845.4	1158.1	599.6	390.0	323.7	290.5	277.2	273.3	271.9
45°	7296.0	6424.4	2849.4	1051.9	521.3	346.2	295.8	268.0	260.0	254.7	254.7
47.5°	7839.9	6750.8	2775.1	937.9	444.4	313.1	273.3	254.7	248.1	241.4	241.4
50°	8346.6	6968.3	2596.0	805.2	383.4	286.5	256.0	242.8	236.1	229.5	229.5
52.5°	8740.6	7002.8	2300.2	668.6	340.9	266.6	245.4	233.5	225.5	218.9	217.6
55°	8915.7	6786.6	1879.7	541.2	307.8	249.4	234.8	222.9	213.6	206.9	205.6
57.5°	8870.6	6331.6	1465.8	435.1	275.9	232.1	221.5	213.6	203.0	192.3	191.0
60°	8649.1	5722.7	1105.0	362.1	246.7	213.6	206.9	200.3	185.7	169.8	167.1
62.5°	8265.7	4957.3	788.0	299.8	214.9	192.3	189.7	184.4	163.2	134.0	131.3
65°	7679.3	4027.4	530.6	249.4	184.4	168.5	169.8	160.5	132.7	99.5	96.8
67.5°	6822.4	2944.9	339.6	204.3	153.9	140.6	141.9	136.6	112.8	84.9	80.9
70°	5730.7	1950.0	221.5	155.2	123.4	108.8	116.7	118.1	95.5	69.0	66.3
72.5°	4201.2	1151.4	155.2	115.4	90.2	75.6	95.5	98.2	76.9	51.7	49.1
75°	2394.4	546.5	116.7	83.6	55.7	53.1	74.3	74.3	53.1	34.5	31.8
77.5°	1005.5	228.2	82.2	54.4	31.8	30.5	50.4	46.4	26.5	15.9	15.9
80°	290.5	102.1	43.8	26.5	13.3	11.9	19.9	14.6	6.6	2.7	2.7
82.5°	114.1	45.1	17.2	10.6	5.3	5.3	2.7	0.0	0.0	0.0	0.0
85°	67.7	18.6	8.0	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	4.0	2.7	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)