

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: P941618

Luminaire Tested: **GALN-SB5B-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19976 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 182.7
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

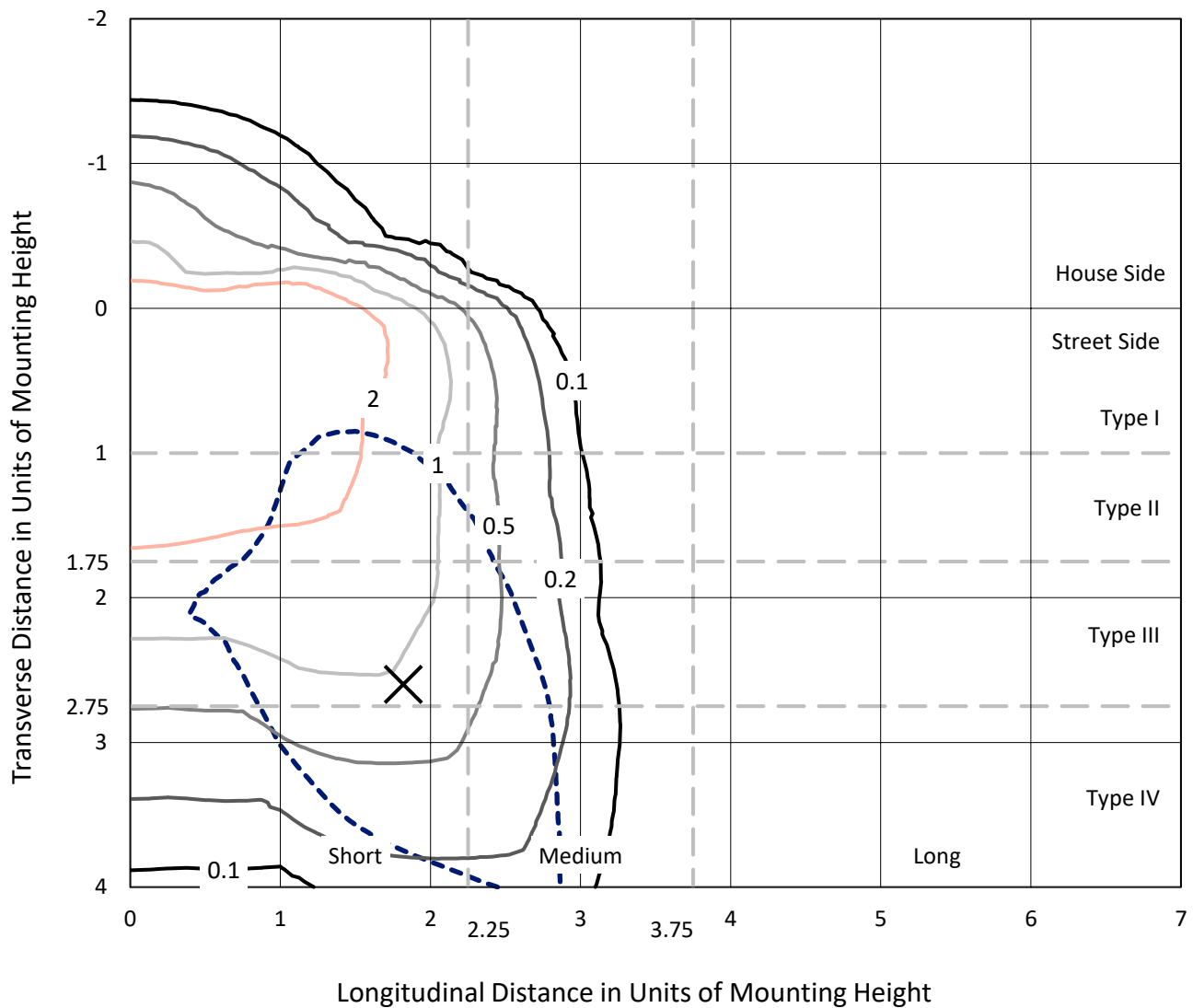


REPORT NUMBER: P941618

CATALOG NUMBER: GALN-SB5B-727-U-T4FT-HSS

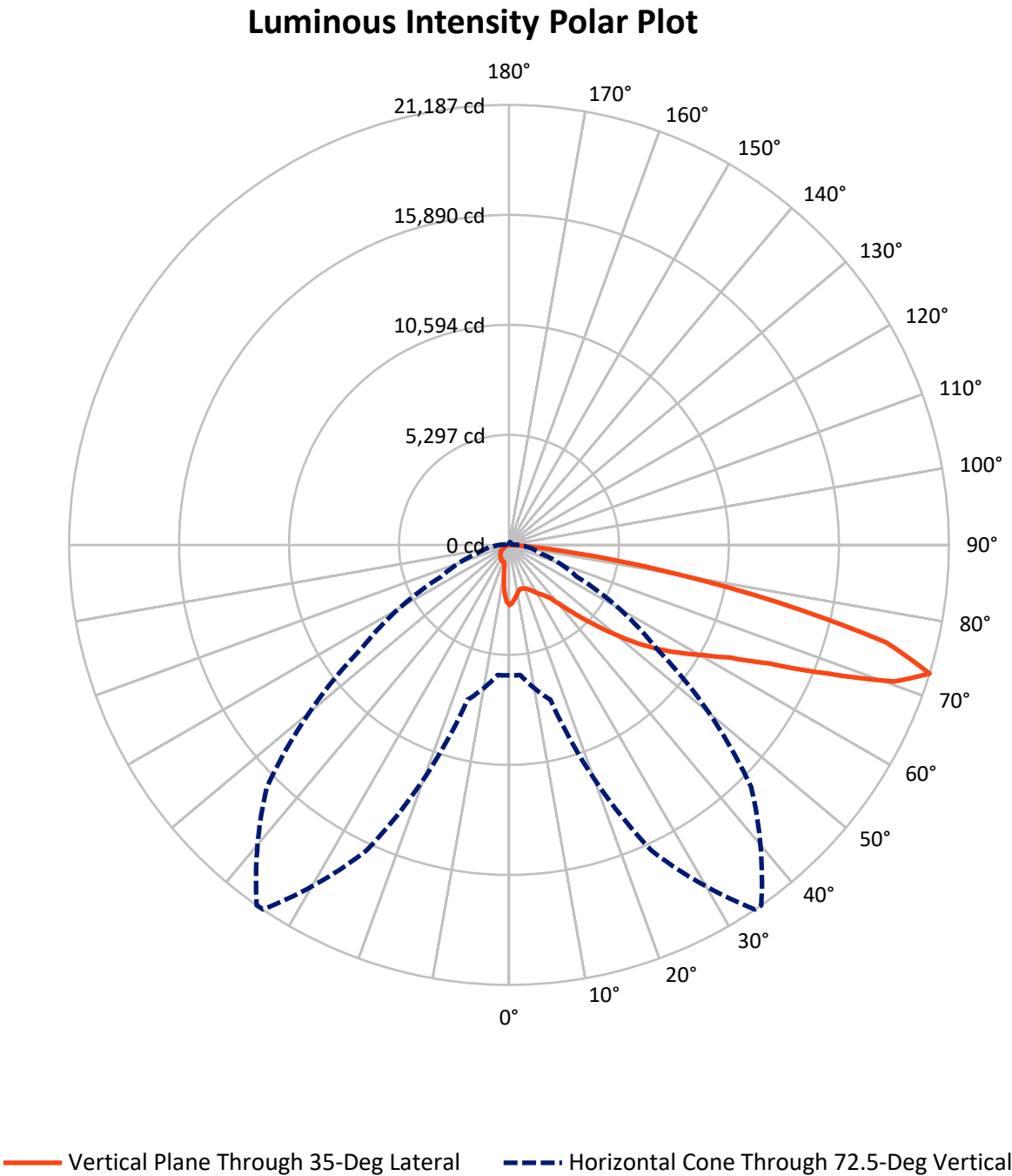
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - N/A

REPORT NUMBER: P941618
CATALOG NUMBER: GALN-SB5B-727-U-T4FT-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2248.2	0.0	2248.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	17727.8	0.0	17727.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	19976.0	0.0	19976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	1.2
10°-20°	556.6	2.8
20°-30°	904.1	4.5
30°-40°	1508.5	7.6
40°-50°	2854.1	14.3
50°-60°	4535.2	22.7
60°-70°	5610.3	28.1
70°-80°	3487.4	17.5
80°-90°	281.8	1.4
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°	19976.0	100.0
0°-180°	19976.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941618

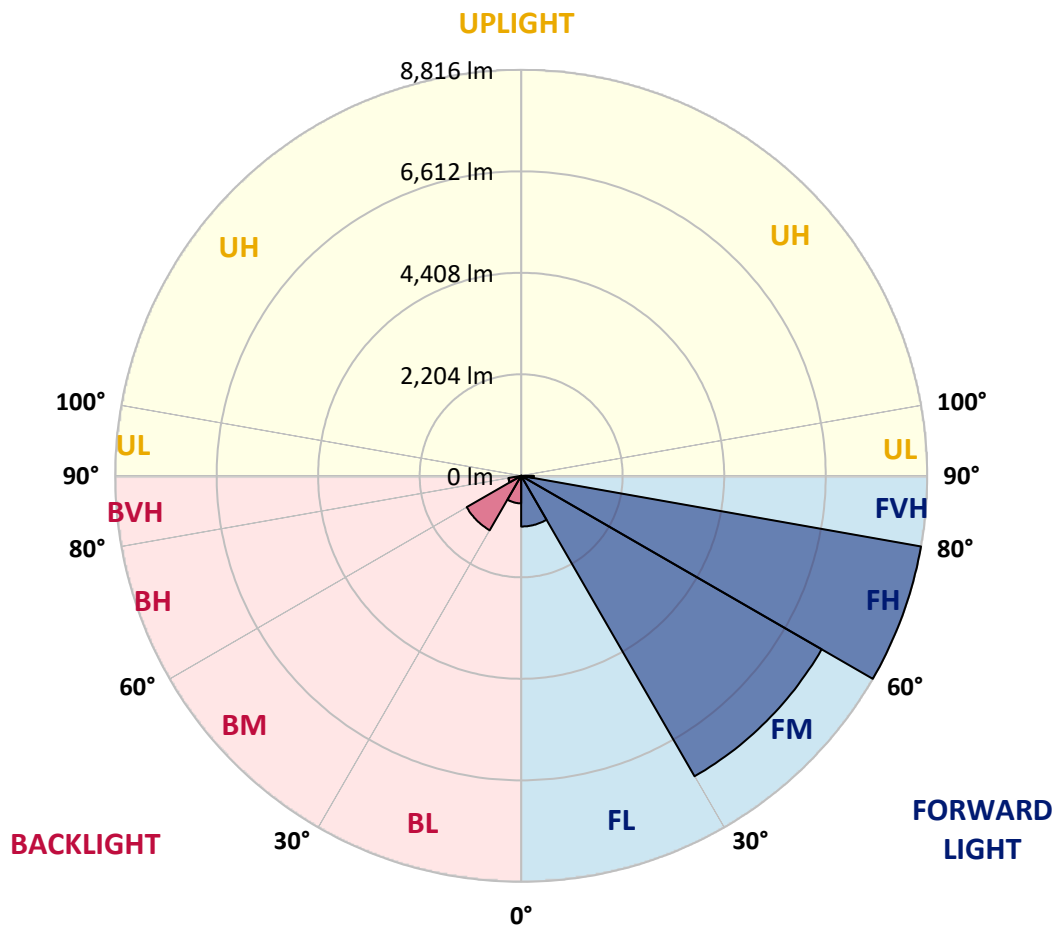
CATALOG NUMBER: GALN-SB5B-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1101.2	5.5			
FM	(30°-60°)	7533.0	37.7			
FH	(60°-80°)	8815.7	44.1			G4/12000
FVH	(80°-90°)	278.0	1.4			G3/500
BL	(0°-30°)	597.4	3.0	B2/1000		
BM	(30°-60°)	1364.9	6.8	B2/2500		
BH	(60°-80°)	282.1	1.4	B1/500		G1/500
BVH	(80°-90°)	3.8	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



REPORT NUMBER: P941618

CATALOG NUMBER: GALN-SB5B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2
2.5°	2766.4	2789.8	2794.2	2801.5	2801.5	2810.3	2824.9	2845.4	2879.1	2896.7	2908.4
5°	2549.8	2567.3	2589.3	2606.8	2640.5	2644.9	2702.0	2757.6	2835.2	2893.7	2934.7
7.5°	2331.7	2352.2	2381.4	2423.9	2467.8	2481.0	2567.3	2661.0	2784.0	2893.7	2962.5
10°	2178.0	2179.4	2205.8	2248.2	2318.5	2334.6	2440.0	2573.2	2726.9	2876.2	2988.9
12.5°	2091.6	2101.9	2113.6	2145.8	2213.1	2223.4	2336.1	2492.7	2669.8	2865.9	3019.6
15°	2091.6	2098.9	2106.3	2122.4	2176.5	2185.3	2284.8	2441.4	2640.5	2870.3	3069.4
17.5°	2113.6	2125.3	2119.4	2138.5	2195.5	2201.4	2289.2	2426.8	2639.0	2898.1	3145.5
20°	2166.3	2175.1	2163.3	2175.1	2232.1	2243.8	2334.6	2454.6	2663.9	2946.4	3240.6
22.5°	2249.7	2254.1	2226.3	2235.1	2293.6	2308.2	2413.6	2533.7	2723.9	3024.0	3368.0
25°	2355.1	2363.9	2321.4	2331.7	2387.3	2404.9	2526.3	2652.2	2819.1	3130.8	3530.4
27.5°	2476.6	2481.0	2444.4	2442.9	2514.6	2539.5	2662.5	2798.6	2946.4	3265.5	3735.4
30°	2615.6	2628.8	2593.7	2587.8	2678.6	2699.1	2820.5	2978.6	3133.8	3467.5	4026.6
32.5°	2725.4	2735.6	2715.2	2729.8	2822.0	2838.1	3012.3	3233.3	3428.0	3754.4	4423.3
35°	2883.5	2889.3	2842.5	2868.8	2974.2	3015.2	3274.3	3590.4	3798.3	4114.5	4941.4
37.5°	3455.8	3455.8	3256.7	3126.5	3227.5	3264.0	3632.9	4039.8	4255.0	4597.5	5594.2
40°	4247.6	4234.5	3943.2	3676.8	3663.6	3735.4	4143.7	4606.3	4844.8	5177.1	6329.0
42.5°	5092.2	5071.7	4675.0	4411.6	4367.7	4392.6	4733.6	5304.4	5547.4	5884.1	7119.4
45°	5841.6	5835.8	5472.8	5118.5	5039.5	5118.5	5469.8	6121.2	6295.4	6649.6	7908.4
47.5°	6469.5	6469.5	6204.6	5973.3	5932.4	5979.2	6466.6	7027.2	7011.1	7464.9	8676.8
50°	7192.6	7186.8	6935.0	6835.5	6877.9	6943.8	7614.2	7981.5	7751.7	8265.5	9363.3
52.5°	7699.0	7734.2	7647.8	7631.7	7848.3	7962.5	8779.3	8915.4	8414.8	9025.2	9877.0
55°	8100.1	8141.1	8240.6	8353.3	8770.5	8919.8	9907.8	9800.9	8969.5	9683.8	10172.7
57.5°	8668.0	8609.5	8763.2	8985.6	9660.4	9840.4	11001.1	10636.7	9416.0	10218.1	10204.9
60°	9357.4	9366.2	9392.5	9673.6	10548.9	10780.1	12078.4	11427.1	9702.8	10545.9	9847.8
62.5°	10185.9	10199.0	10253.2	10685.0	11741.8	11959.9	13226.0	12074.0	9834.6	10453.7	8925.6
65°	10128.8	10184.4	10788.9	12265.8	13555.3	13770.5	14565.2	12527.8	9635.5	9610.6	7267.3
67.5°	9227.1	9317.9	10329.3	14153.9	16289.5	16529.5	16184.1	12617.1	8776.3	7473.6	4740.9
70°	8044.5	8076.7	9293.0	15851.8	19455.5	19698.4	17633.2	11634.9	6659.8	4168.6	2123.8
72.5°	6282.2	6289.5	7716.6	16245.6	21173.8	21187.0	16495.9	8637.3	3581.7	1601.3	737.7
75°	4487.7	4443.8	5168.3	13174.7	18628.5	18777.8	12366.8	4051.5	1368.6	756.7	367.4
77.5°	2406.3	2454.6	2924.5	7813.2	12868.8	13123.5	6747.6	1168.0	696.7	515.2	243.0
80°	743.6	784.5	1198.8	3577.3	7289.2	7442.9	2501.5	519.6	485.9	367.4	159.5
82.5°	234.2	243.0	559.1	1503.2	3025.5	3095.7	724.5	294.2	332.3	243.0	93.7
85°	67.3	68.8	248.8	560.6	747.9	762.6	203.5	114.2	190.3	150.8	48.3
87.5°	7.3	23.4	93.7	93.7	65.9	64.4	22.0	24.9	54.2	19.0	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941618

CATALOG NUMBER: GALN-SB5B-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2
2.5°	2901.0	2902.5	2883.5	2851.3	2816.2	2786.9	2750.3	2721.0	2700.5	2694.7	2704.9
5°	2921.5	2911.3	2857.1	2759.1	2642.0	2541.0	2428.3	2339.0	2280.4	2255.6	2264.3
7.5°	2952.3	2923.0	2804.4	2611.2	2387.3	2188.2	1986.2	1829.6	1730.1	1680.3	1687.6
10°	2978.6	2920.1	2716.6	2397.5	2055.0	1753.5	1481.3	1292.4	1187.1	1137.3	1138.8
12.5°	3003.5	2918.6	2602.5	2144.3	1680.3	1311.5	1058.3	964.6	935.3	925.1	922.1
15°	3050.3	2923.0	2459.0	1854.5	1307.1	990.9	898.7	897.2	903.1	900.2	898.7
17.5°	3114.7	2927.4	2296.5	1547.1	1008.5	873.8	869.4	882.6	891.4	887.0	885.5
20°	3198.2	2945.0	2123.8	1242.7	866.5	844.6	854.8	866.5	873.8	866.5	865.0
22.5°	3315.3	2975.7	1935.0	998.2	821.1	827.0	835.8	848.9	856.3	846.0	844.6
25°	3458.7	3024.0	1749.1	868.0	799.2	806.5	819.7	834.3	843.1	832.8	831.4
27.5°	3644.6	3101.6	1577.9	838.7	777.2	781.6	800.6	822.6	834.3	821.1	821.1
30°	3913.9	3228.9	1430.0	851.9	764.0	753.8	780.2	810.9	824.1	812.4	810.9
32.5°	4271.1	3408.9	1339.3	872.4	758.2	721.6	746.5	786.0	808.0	800.6	800.6
35°	4739.5	3682.7	1304.2	895.8	753.8	687.9	705.5	747.9	786.0	793.3	793.3
37.5°	5307.4	4063.2	1314.4	906.0	740.6	660.1	668.9	705.5	755.3	778.7	784.5
40°	5952.9	4506.7	1372.9	895.8	726.0	636.7	638.2	666.0	709.9	745.0	756.7
42.5°	6618.8	5024.9	1481.3	857.7	712.8	616.2	611.8	630.9	660.1	685.0	695.3
45°	7252.6	5557.7	1588.1	805.0	696.7	595.7	585.5	592.8	598.7	608.9	614.8
47.5°	7805.9	5932.4	1557.4	756.7	674.8	572.3	554.7	551.8	534.2	532.8	531.3
50°	8187.9	6014.3	1383.2	708.4	642.6	546.0	518.1	500.6	469.8	455.2	456.7
52.5°	8309.4	5690.9	1130.0	660.1	589.9	510.8	471.3	443.5	405.4	392.3	390.8
55°	8148.4	5057.1	903.1	601.6	516.7	464.0	420.1	383.5	352.8	336.7	336.7
57.5°	7754.7	4250.6	714.3	532.8	439.1	411.3	367.4	330.8	304.4	288.3	285.4
60°	7101.9	3375.3	565.0	450.8	374.7	354.2	308.8	285.4	262.0	243.0	238.6
62.5°	6110.9	2409.2	443.5	357.1	313.2	289.8	263.5	245.9	218.1	191.7	187.4
65°	4768.7	1473.9	342.5	262.0	251.8	240.0	223.9	207.8	174.2	147.8	143.4
67.5°	3007.9	698.2	244.4	197.6	199.1	193.2	185.9	172.7	147.8	124.4	121.5
70°	1324.6	338.1	161.0	150.8	147.8	147.8	153.7	149.3	125.9	103.9	99.5
72.5°	450.8	181.5	120.0	114.2	106.8	105.4	128.8	124.4	101.0	80.5	76.1
75°	235.7	121.5	87.8	82.0	64.4	77.6	102.5	96.6	71.7	52.7	48.3
77.5°	153.7	86.4	60.0	52.7	36.6	51.2	76.1	67.3	42.4	26.3	23.4
80°	96.6	57.1	35.1	24.9	17.6	27.8	41.0	29.3	16.1	5.9	4.4
82.5°	51.2	29.3	13.2	8.8	7.3	8.8	10.2	7.3	2.9	0.0	0.0
85°	20.5	10.2	4.4	2.9	1.5	0.0	2.9	1.5	0.0	0.0	0.0
87.5°	7.3	1.5	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)