

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: P950601

Luminaire Tested: **GALN-SB5A-730-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18865 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

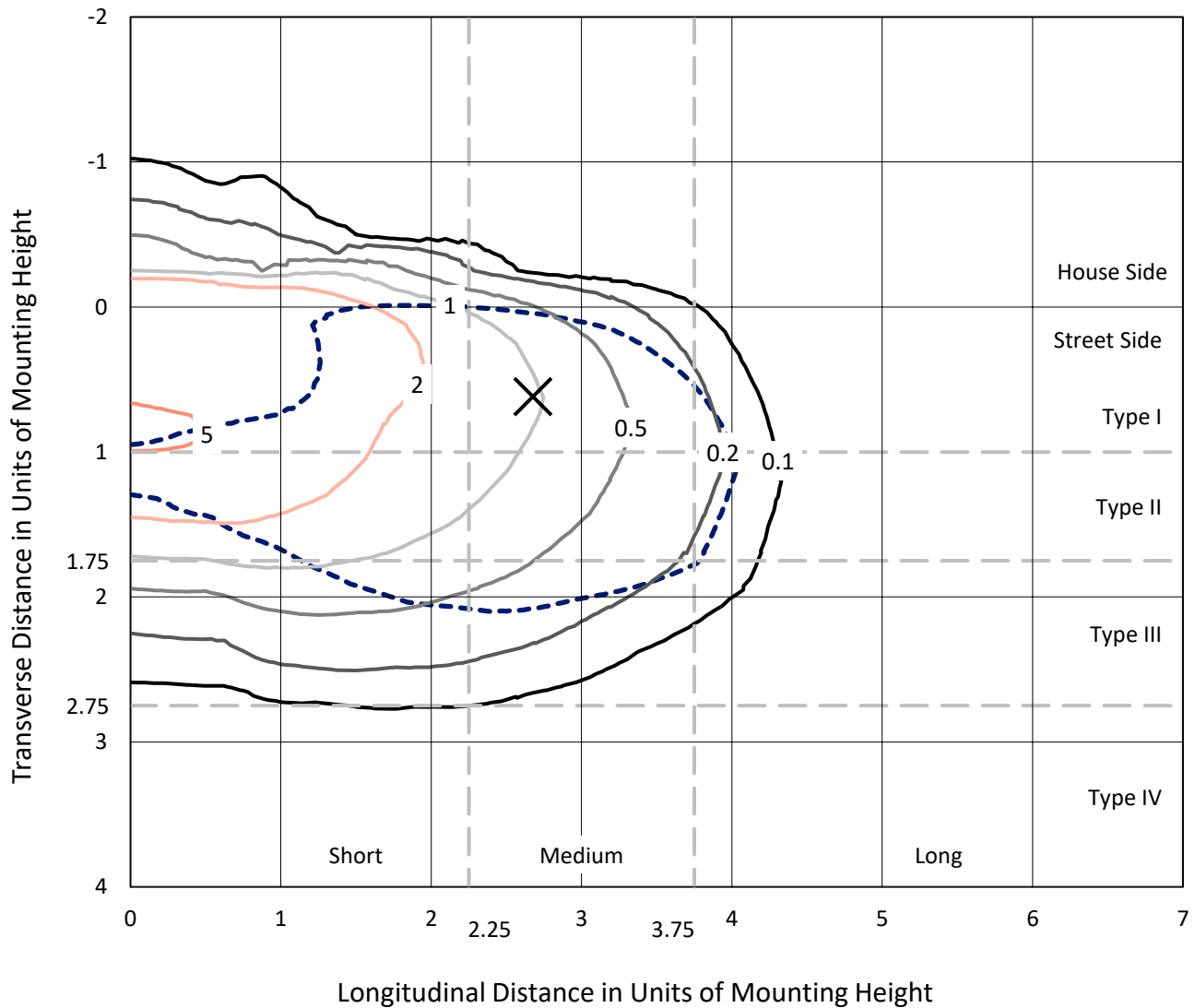
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

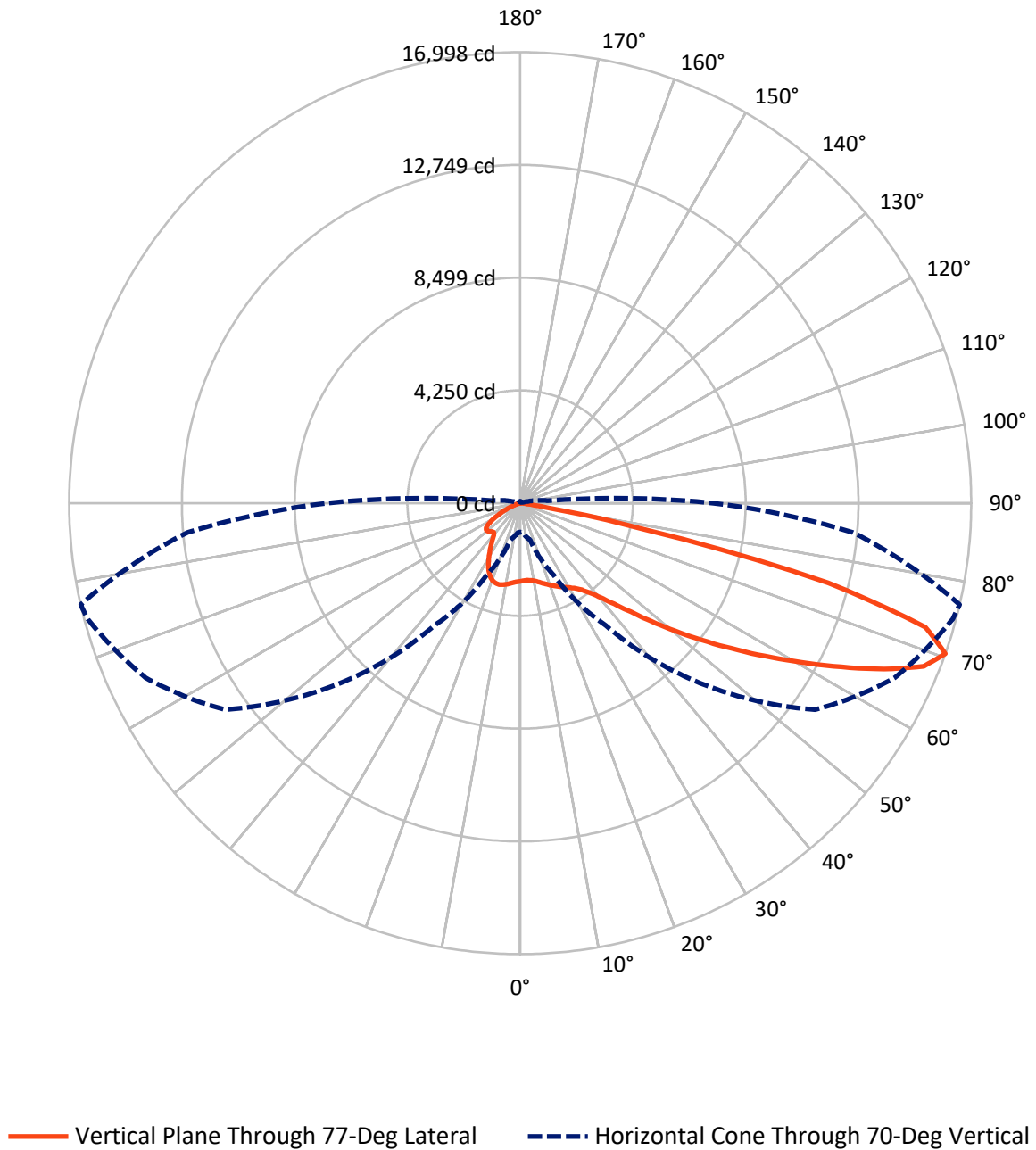
✕ Max cd
 --- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1988.6	0.0	1988.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16876.4	0.0	16876.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	18865.0	0.0	18865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	1.3
10°-20°	602.0	3.2
20°-30°	931.2	4.9
30°-40°	1689.7	9.0
40°-50°	3189.4	16.9
50°-60°	4608.5	24.4
60°-70°	4905.6	26.0
70°-80°	2599.6	13.8
80°-90°	85.4	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°	18865.0	100.0
0°-180°	18865.0	100.0

Coefficient of Utilization



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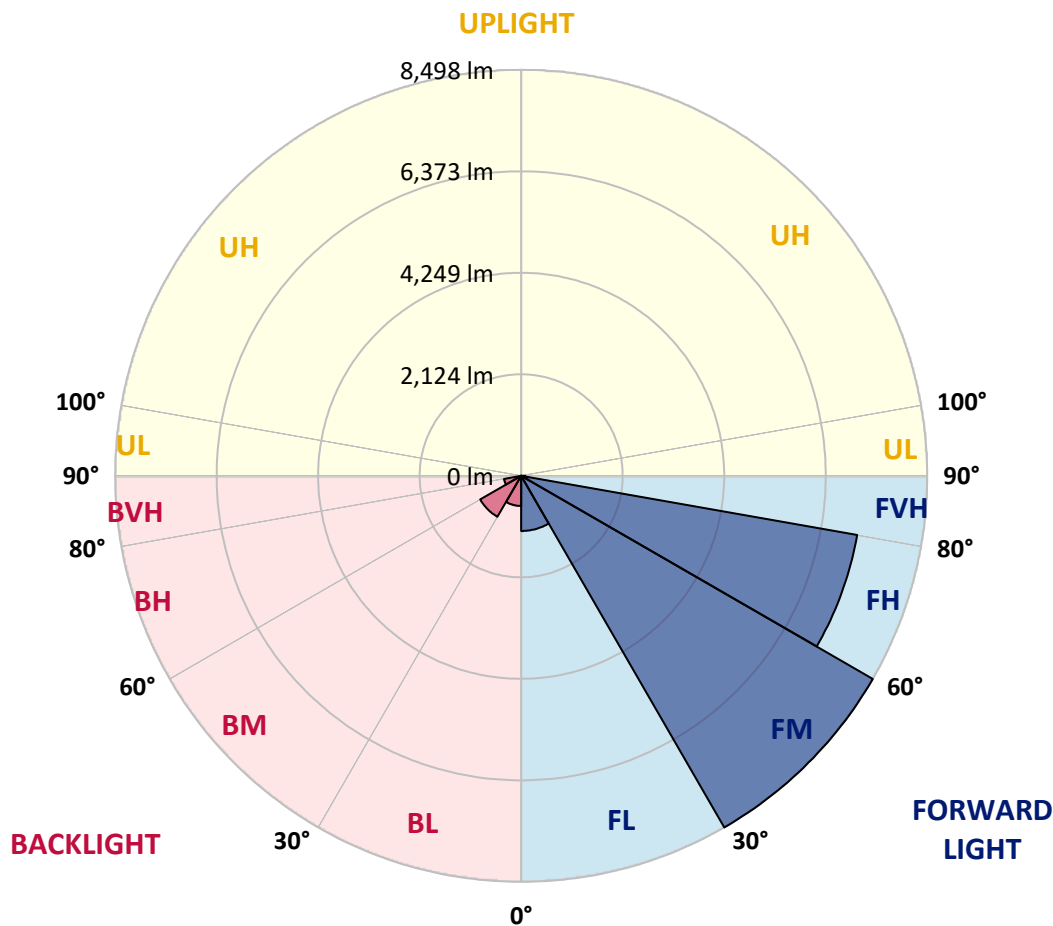
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1155.0	6.1			
FM	(30°-60°)	8497.6	45.0			
FH	(60°-80°)	7140.7	37.9			G3/7500
FVH	(80°-90°)	83.1	0.4			G1/100
BL	(0°-30°)	631.8	3.3	B2/1000		
BM	(30°-60°)	990.0	5.2	B1/1000		
BH	(60°-80°)	364.6	1.9	B1/500		G1/500
BVH	(80°-90°)	2.3	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6
2.5°	2762.7	2787.7	2784.2	2800.8	2806.8	2830.6	2854.4	2886.6	2922.3	2921.2	2945.0
5°	2606.6	2631.7	2637.6	2660.3	2688.8	2725.8	2774.6	2839.0	2905.7	2916.4	2964.0
7.5°	2422.0	2448.2	2463.7	2509.0	2561.4	2637.6	2717.4	2811.6	2922.3	2937.8	3029.6
10°	2237.3	2261.2	2281.4	2345.7	2429.1	2542.3	2672.2	2808.0	2956.9	2979.5	3109.4
12.5°	2123.0	2145.6	2168.2	2224.2	2327.9	2466.1	2642.4	2824.7	3014.1	3046.2	3217.8
15°	2082.5	2102.7	2120.6	2170.6	2267.1	2424.4	2636.4	2859.2	3086.8	3129.6	3348.8
17.5°	2088.4	2099.1	2111.0	2149.2	2243.3	2405.3	2647.1	2918.8	3172.5	3210.6	3479.9
20°	2123.0	2128.9	2130.1	2156.3	2239.7	2402.9	2668.6	2976.0	3253.5	3304.8	3609.7
22.5°	2167.0	2169.4	2167.0	2184.9	2262.3	2420.8	2697.2	3045.1	3344.1	3391.7	3740.8
25°	2373.1	2327.9	2270.7	2236.1	2300.5	2455.3	2740.1	3138.0	3443.0	3489.4	3868.3
27.5°	3012.9	2883.0	2678.1	2448.2	2379.1	2505.4	2799.6	3232.1	3543.0	3584.7	4005.3
30°	4051.7	3881.4	3533.5	3015.3	2631.7	2610.2	2877.1	3326.2	3649.1	3694.3	4151.8
32.5°	5093.0	5051.3	4649.8	3932.6	3199.9	2843.7	3005.7	3453.7	3789.6	3825.4	4349.6
35°	6146.1	6061.5	5732.7	5023.9	4075.6	3319.1	3220.2	3620.5	3974.3	4014.8	4637.9
37.5°	6952.6	6901.4	6697.7	6113.9	5114.4	4052.9	3587.1	3879.0	4242.3	4287.6	5007.2
40°	7665.1	7641.2	7572.1	7187.3	6276.0	5013.1	4157.8	4279.3	4614.0	4667.7	5459.9
42.5°	8225.0	8281.0	8320.3	8213.1	7473.2	6109.2	4925.0	4841.6	5132.3	5187.1	6036.5
45°	8798.0	8817.1	8975.5	9130.4	8662.2	7255.2	5789.9	5500.4	5776.8	5844.7	6727.5
47.5°	9166.1	9242.4	9521.2	9794.0	9661.7	8391.8	6719.1	6278.3	6523.8	6651.2	7501.8
50°	9193.5	9337.7	9721.3	10196.6	10389.6	9473.5	7729.4	7164.7	7425.6	7566.2	8328.6
52.5°	8737.3	8961.2	9555.7	10251.4	10782.8	10389.6	8774.2	8051.0	8385.8	8569.3	9186.4
55°	6698.9	6991.9	8932.6	9953.6	10798.3	11084.2	9791.6	8974.3	9455.6	9662.9	10113.2
57.5°	5836.4	5984.1	7022.9	9436.6	10511.2	11364.2	10711.3	9853.5	10619.6	10876.9	10988.9
60°	4855.9	5050.1	5890.0	8590.7	10121.6	11391.6	11523.8	10987.7	11881.2	12170.7	11791.8
62.5°	3300.0	3510.9	4346.0	7137.3	9589.1	11378.4	12189.7	12155.2	13283.4	13594.3	12472.1
65°	2044.3	2176.6	2727.0	5828.0	8844.5	11392.7	12886.7	13572.9	14763.0	15078.7	12998.7
67.5°	1615.5	1676.2	1963.3	4474.7	7561.4	11071.1	13582.4	14906.0	16155.7	16405.9	13159.5
70°	1085.3	1122.2	1428.4	2999.8	5625.5	9586.7	13569.3	15575.5	16872.9	16998.0	12573.4
72.5°	571.8	600.4	835.1	1389.1	3397.7	6814.4	11438.0	14774.9	16159.3	15971.0	10747.0
75°	285.9	333.6	562.3	705.3	1451.0	3800.4	7102.7	11648.9	12718.7	11989.6	6895.5
77.5°	216.8	262.1	464.6	464.6	505.1	1279.5	3008.1	6353.4	5860.2	4879.7	2024.1
80°	138.2	178.7	406.2	351.4	210.9	325.2	783.9	1779.9	1244.9	947.1	368.1
82.5°	81.0	116.8	338.3	232.3	117.9	120.3	221.6	378.8	322.9	251.4	113.2
85°	32.2	76.2	232.3	91.7	46.5	29.8	66.7	81.0	66.7	50.0	28.6
87.5°	0.0	17.9	40.5	0.0	3.6	2.4	4.8	6.0	6.0	4.8	9.5
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°	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6
2.5°	2955.7	2958.1	2965.2	2966.4	2949.7	2928.3	2920.0	2916.4	2902.1	2900.9	2903.3
5°	2991.4	3002.2	2991.4	2960.5	2886.6	2783.0	2704.3	2640.0	2581.6	2563.8	2553.0
7.5°	3062.9	3073.6	3041.5	2920.0	2734.1	2528.0	2342.2	2211.1	2093.2	2049.1	2031.2
10°	3165.4	3179.7	3078.4	2833.0	2504.2	2173.0	1858.5	1636.9	1464.2	1393.9	1364.1
12.5°	3294.0	3300.0	3098.7	2700.8	2205.2	1732.2	1286.6	1049.6	895.9	838.7	820.8
15°	3435.8	3427.5	3101.0	2520.9	1797.7	1224.7	839.9	689.8	627.8	608.8	608.8
17.5°	3584.7	3550.2	3053.4	2261.2	1351.0	837.5	623.1	587.3	576.6	571.8	570.6
20°	3731.3	3653.8	2966.4	1921.6	969.7	625.5	565.9	555.2	549.2	546.8	544.4
22.5°	3864.7	3732.5	2817.5	1527.3	704.1	552.8	534.9	525.4	514.7	509.9	508.7
25°	3994.5	3777.7	2607.8	1159.2	563.5	517.0	502.7	484.9	470.6	464.6	462.2
27.5°	4120.8	3806.3	2345.7	857.8	502.7	483.7	457.5	432.5	421.7	419.4	417.0
30°	4255.5	3815.8	2047.9	639.7	465.8	442.0	403.9	375.3	369.3	370.5	370.5
32.5°	4419.9	3830.1	1747.7	524.2	434.8	391.9	346.7	316.9	312.1	316.9	315.7
35°	4616.4	3858.7	1458.2	482.5	407.4	340.7	291.9	266.9	262.1	265.7	264.5
37.5°	4883.3	3905.2	1187.8	474.2	384.8	297.8	245.4	225.2	225.2	226.4	225.2
40°	5238.3	4029.1	945.9	468.2	372.9	265.7	207.3	199.0	202.5	204.9	204.9
42.5°	5670.8	4292.4	782.7	461.0	359.8	251.4	188.2	184.7	190.6	193.0	193.0
45°	6155.6	4626.0	725.5	449.1	347.9	260.9	179.9	175.1	182.3	183.5	184.7
47.5°	6657.2	4952.4	718.4	436.0	336.0	275.2	177.5	166.8	175.1	176.3	177.5
50°	7164.7	5165.6	725.5	415.8	316.9	275.2	178.7	158.4	165.6	169.2	170.4
52.5°	7675.8	5263.3	720.8	371.7	283.5	258.5	178.7	151.3	158.4	160.8	160.8
55°	8171.4	5244.3	648.1	306.2	240.6	228.7	173.9	145.3	150.1	151.3	151.3
57.5°	8563.3	4978.6	513.5	238.3	195.4	190.6	158.4	138.2	141.8	140.6	140.6
60°	8768.2	4394.8	366.9	183.5	153.7	150.1	139.4	128.7	131.0	125.1	123.9
62.5°	8770.6	3622.9	245.4	145.3	122.7	119.1	119.1	115.6	113.2	101.3	97.7
65°	8583.6	2766.3	163.2	115.6	98.9	92.9	100.1	98.9	90.5	73.9	71.5
67.5°	8159.5	1813.2	123.9	90.5	76.2	72.7	79.8	83.4	77.4	61.9	60.8
70°	7287.4	1055.5	102.5	70.3	57.2	53.6	64.3	71.5	64.3	50.0	47.7
72.5°	6053.2	569.5	83.4	52.4	39.3	35.7	51.2	58.4	51.2	36.9	35.7
75°	3927.8	305.0	64.3	34.5	20.3	22.6	38.1	42.9	35.7	23.8	21.4
77.5°	1318.8	134.6	40.5	16.7	9.5	9.5	22.6	26.2	16.7	8.3	7.1
80°	294.3	56.0	16.7	7.1	3.6	3.6	4.8	4.8	2.4	0.0	0.0
82.5°	96.5	22.6	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.9	8.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	1.2	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)