

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: P953455

Luminaire Tested: **GALN-SB7A-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-730-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24380 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 199.1
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



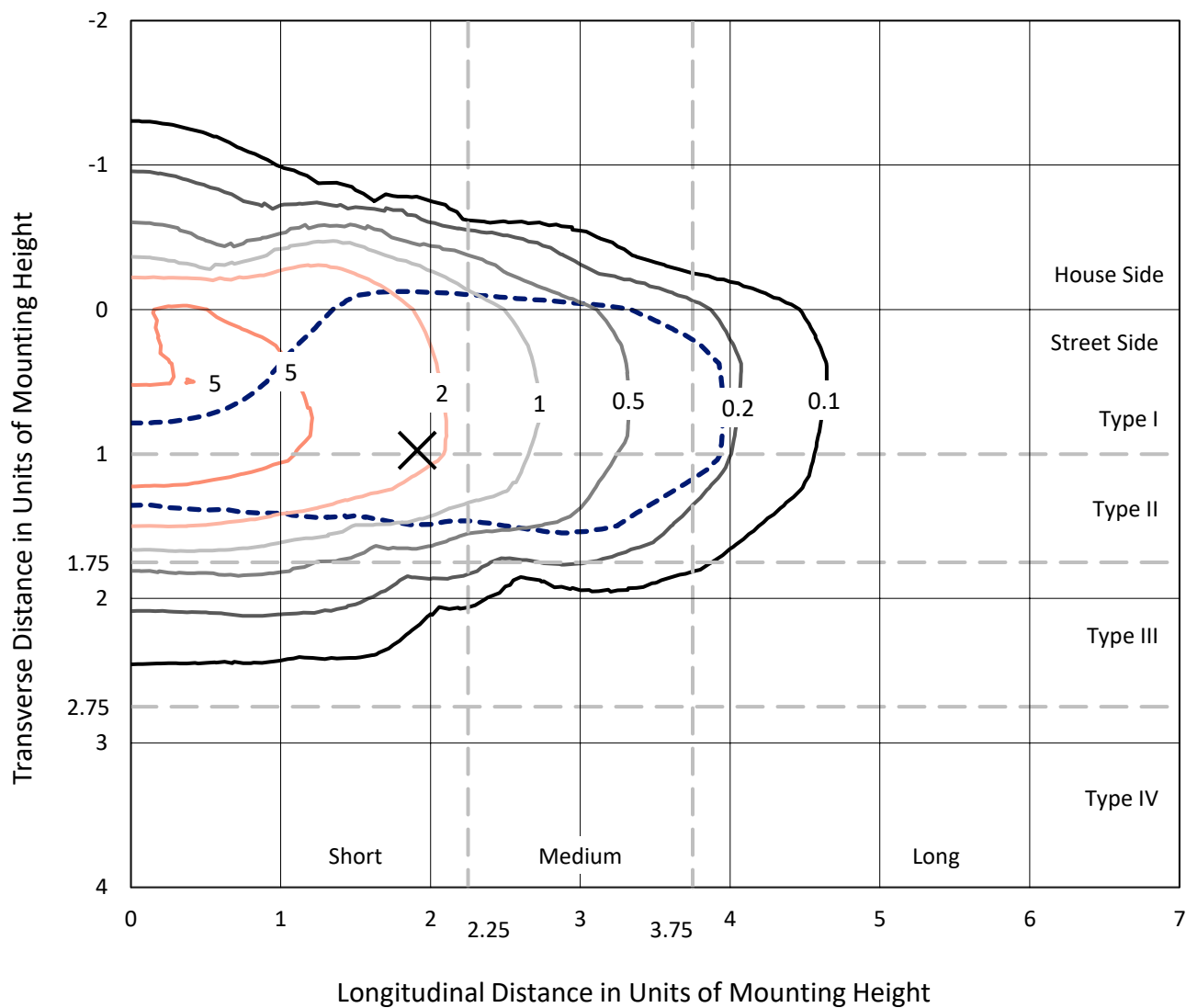
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

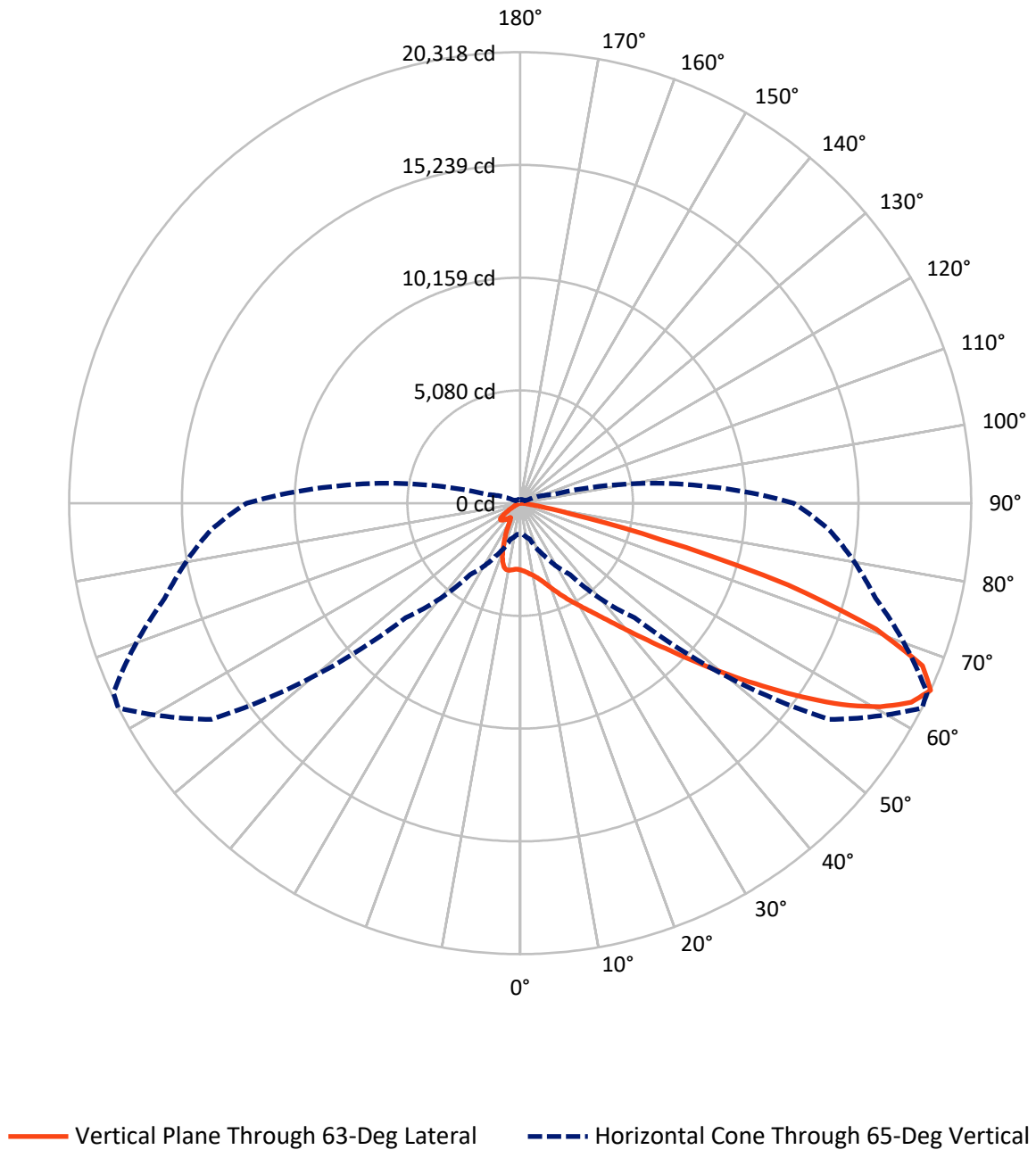
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3583.7	0.0	3583.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20796.3	0.0	20796.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	24380.0	0.0	24380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.2
10°-20°	786.6	3.2
20°-30°	1369.7	5.6
30°-40°	2468.7	10.1
40°-50°	4896.3	20.1
50°-60°	6669.5	27.4
60°-70°	5323.6	21.8
70°-80°	2409.0	9.9
80°-90°	173.2	0.7
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°	24380.0	100.0
0°-180°	24380.0	100.0

Coefficient of Utilization



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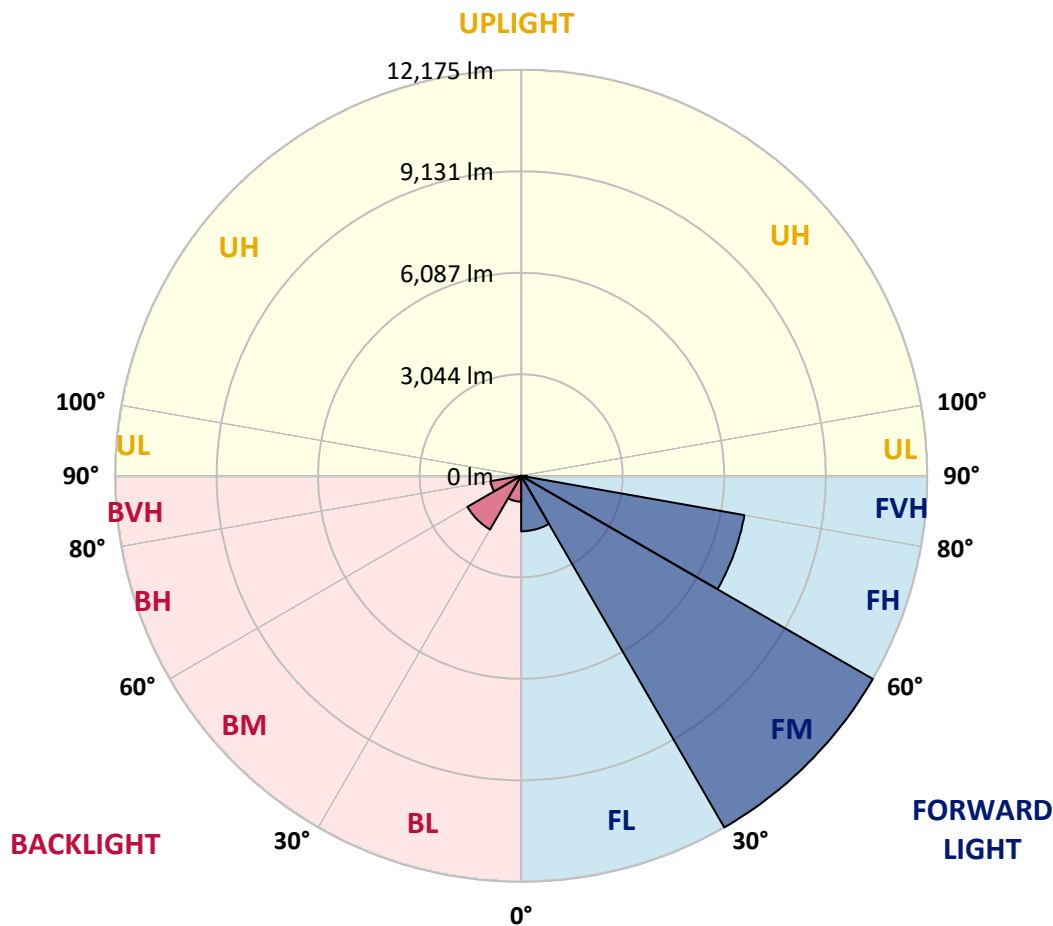
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1664.2	6.8			
FM	(30°-60°)	12174.8	49.9			
FH	(60°-80°)	6797.0	27.9			G3/7500
FVH	(80°-90°)	160.3	0.7			G2/225
BL	(0°-30°)	775.6	3.2	B2/1000		
BM	(30°-60°)	1859.7	7.6	B2/2500		
BH	(60°-80°)	935.6	3.8	B2/1000		G2/1000
BVH	(80°-90°)	12.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0
2.5°	3079.4	3071.0	3082.8	3077.7	3074.4	3067.7	3064.3	3060.9	3054.2	3049.2	3029.1
5°	3087.8	3082.8	3094.5	3104.6	3114.6	3124.7	3129.7	3136.4	3129.7	3116.3	3096.2
7.5°	3017.3	3014.0	3039.1	3069.3	3114.6	3153.2	3195.1	3218.6	3220.3	3215.3	3193.4
10°	3012.3	3003.9	3029.1	3066.0	3124.7	3193.4	3267.2	3317.6	3324.3	3346.1	3322.6
12.5°	3091.1	3082.8	3118.0	3158.2	3218.6	3290.7	3381.3	3451.7	3461.8	3492.0	3475.2
15°	3223.6	3211.9	3252.2	3304.1	3381.3	3463.5	3559.1	3622.8	3631.2	3668.1	3637.9
17.5°	3377.9	3366.2	3413.2	3468.5	3552.4	3664.8	3775.4	3845.9	3856.0	3879.4	3824.1
20°	3575.9	3560.8	3597.7	3648.0	3736.9	3871.0	4003.6	4104.2	4102.5	4102.5	4011.9
22.5°	3805.6	3782.2	3814.0	3854.3	3938.1	4100.8	4276.9	4396.0	4396.0	4349.1	4199.8
25°	4052.2	4028.7	4063.9	4100.8	4174.6	4359.1	4565.4	4713.0	4719.7	4639.2	4401.1
27.5°	4360.8	4330.6	4357.4	4401.1	4444.7	4632.5	4877.4	5048.5	5051.8	4927.7	4592.3
30°	4954.5	4869.0	4785.1	4738.2	4758.3	4944.5	5206.1	5395.7	5412.4	5241.3	4800.2
32.5°	6041.4	6024.6	5729.4	5343.7	5142.4	5279.9	5573.4	5801.5	5811.6	5591.9	5070.3
35°	7730.4	7710.2	7235.6	6500.9	5845.2	5729.4	6019.6	6289.6	6282.9	6034.7	5420.8
37.5°	9746.4	9727.9	9102.3	8119.5	7057.8	6408.7	6594.9	6878.3	6920.3	6594.9	5873.7
40°	11468.9	11400.1	11004.3	10056.7	8667.9	7535.8	7413.4	7601.2	7644.8	7259.1	6449.0
42.5°	12773.8	12715.1	12513.8	11921.8	10616.9	9203.0	8377.8	8449.9	8498.5	8035.6	7109.8
45°	13449.7	13436.3	13516.8	13461.5	12602.7	11249.2	9756.5	9456.2	9474.7	8896.0	7859.5
47.5°	13545.3	13538.6	13905.9	14425.9	14310.1	13557.1	11525.9	10710.8	10645.4	9867.2	8674.6
50°	12981.8	12968.4	13672.8	14647.3	15450.7	15495.9	13535.3	12124.7	11980.5	10871.8	9525.0
52.5°	11182.1	11178.7	12336.0	13957.9	15851.5	17193.3	15521.1	13677.8	13436.3	11935.2	10424.0
55°	8604.2	8666.3	9992.9	11910.0	15120.2	18010.1	17304.0	15402.0	15031.3	13005.3	11252.5
57.5°	6095.1	6185.6	7497.2	9204.6	12852.6	17527.1	18509.9	17129.6	16730.4	14072.0	12092.8
60°	3274.0	3354.5	4667.7	6705.6	9561.9	15725.7	19145.6	18629.0	18251.6	15085.0	12850.9
62.5°	1950.6	1977.5	2520.9	4328.9	6467.4	12014.0	18875.6	19771.2	19460.9	15935.4	13510.1
65°	1400.5	1405.5	1678.9	2643.3	3926.4	7299.3	16982.0	20318.0	20222.4	16576.1	13998.2
67.5°	1179.1	1175.7	1289.8	1756.1	2675.2	3656.4	13015.3	19544.8	19950.7	16982.0	14274.9
70°	1011.4	1016.4	1150.6	1286.4	2011.0	2069.7	6470.8	17017.2	17882.6	17089.3	14258.1
72.5°	753.1	769.8	894.0	1172.4	1517.9	1424.0	2234.1	12617.8	14182.7	16101.4	13518.5
75°	531.7	540.1	629.0	986.2	1132.1	1036.5	1140.5	6522.8	8528.7	12344.4	11064.7
77.5°	409.2	424.3	476.3	689.3	1115.4	727.9	697.7	2257.6	3468.5	7457.0	7586.1
80°	221.4	248.2	343.8	498.1	783.3	514.9	345.5	899.0	1175.7	3487.0	2925.1
82.5°	114.1	127.5	239.8	358.9	446.1	449.5	171.1	374.0	484.7	1076.8	400.9
85°	45.3	55.3	161.0	197.9	229.8	221.4	77.2	151.0	174.4	298.5	122.4
87.5°	10.1	16.8	58.7	45.3	43.6	47.0	18.4	35.2	33.5	35.2	21.8
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°	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0
2.5°	3027.4	3020.7	3002.2	2982.1	2958.6	2945.2	2936.8	2935.2	2923.4	2915.0	2923.4
5°	3077.7	3071.0	3035.8	2993.9	2948.6	2913.4	2879.8	2849.6	2806.0	2797.6	2794.3
7.5°	3178.4	3159.9	3102.9	3045.9	2960.3	2858.0	2733.9	2591.3	2463.9	2425.3	2406.8
10°	3302.5	3277.3	3205.2	3104.6	2915.0	2636.6	2336.4	2058.0	1836.6	1774.5	1751.0
12.5°	3443.4	3421.6	3325.9	3139.8	2725.5	2220.7	1761.1	1415.6	1200.9	1147.2	1132.1
15°	3611.1	3579.2	3446.7	3086.1	2386.7	1687.3	1209.3	1004.7	927.5	917.4	907.4
17.5°	3788.9	3736.9	3554.1	2893.2	1930.5	1199.2	934.2	875.5	842.0	831.9	826.9
20°	3951.6	3884.5	3617.8	2601.4	1442.4	934.2	836.9	798.4	768.2	756.4	749.7
22.5°	4114.2	4018.6	3617.8	2203.9	1081.8	828.6	768.2	733.0	697.7	682.6	674.2
25°	4283.6	4156.2	3554.1	1761.1	870.5	759.8	702.8	664.2	634.0	615.5	608.8
27.5°	4448.0	4271.9	3408.1	1341.8	774.9	699.4	642.4	605.5	577.0	563.5	563.5
30°	4604.0	4386.0	3203.5	1018.1	712.8	640.7	587.0	555.2	526.7	513.2	514.9
32.5°	4815.3	4530.2	2985.5	835.3	659.2	585.4	536.7	506.5	481.4	471.3	471.3
35°	5108.8	4743.2	2797.6	820.2	613.9	540.1	491.4	462.9	437.8	429.4	429.4
37.5°	5524.8	5087.0	2698.7	920.8	577.0	499.8	454.5	424.3	400.9	394.1	392.5
40°	6038.0	5553.3	2752.3	1021.4	551.8	464.6	421.0	390.8	370.7	362.3	360.6
42.5°	6646.9	6128.6	3049.2	1098.6	535.0	434.4	389.1	355.6	342.2	338.8	338.8
45°	7346.3	6760.9	3503.7	1180.8	508.2	405.9	357.3	332.1	322.0	320.4	318.7
47.5°	8141.3	7455.3	4030.4	1283.1	481.4	379.1	332.1	315.3	306.9	303.6	303.6
50°	8929.6	8154.7	4572.1	1340.1	459.6	353.9	312.0	298.5	291.8	290.2	290.2
52.5°	9754.8	8874.2	5009.9	1286.4	441.1	333.8	295.2	285.1	278.4	276.7	276.7
55°	10541.4	9456.2	5085.4	1091.9	404.2	313.6	276.7	271.7	263.3	263.3	261.6
57.5°	11219.0	9748.1	4552.0	801.7	367.3	283.5	258.3	253.3	246.6	244.9	243.2
60°	11841.3	9664.2	3513.8	540.1	327.1	253.3	234.8	231.5	224.7	216.4	214.7
62.5°	12191.8	9295.2	2403.5	352.2	286.8	221.4	208.0	206.3	191.2	174.4	171.1
65°	12324.3	8537.1	1499.4	256.6	239.8	189.5	179.5	176.1	154.3	135.9	134.2
67.5°	12208.6	7289.2	756.4	202.9	189.5	157.7	147.6	147.6	132.5	115.7	114.1
70°	11745.6	5464.4	318.7	162.7	145.9	120.8	120.8	127.5	112.4	93.9	92.2
72.5°	10741.0	3676.5	169.4	124.1	109.0	85.5	99.0	104.0	88.9	70.4	70.4
75°	8538.8	2242.5	117.4	92.2	68.8	60.4	75.5	78.8	60.4	47.0	45.3
77.5°	5840.1	1288.1	78.8	58.7	43.6	35.2	52.0	48.6	31.9	21.8	23.5
80°	2564.5	536.7	45.3	26.8	16.8	13.4	18.4	13.4	10.1	6.7	6.7
82.5°	300.2	125.8	16.8	10.1	6.7	3.4	1.7	0.0	0.0	0.0	0.0
85°	62.1	15.1	8.4	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	3.4	1.7	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)