

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: P949866

Luminaire Tested: **GALN-SB4C-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949866
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-SB4C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 23178 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

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

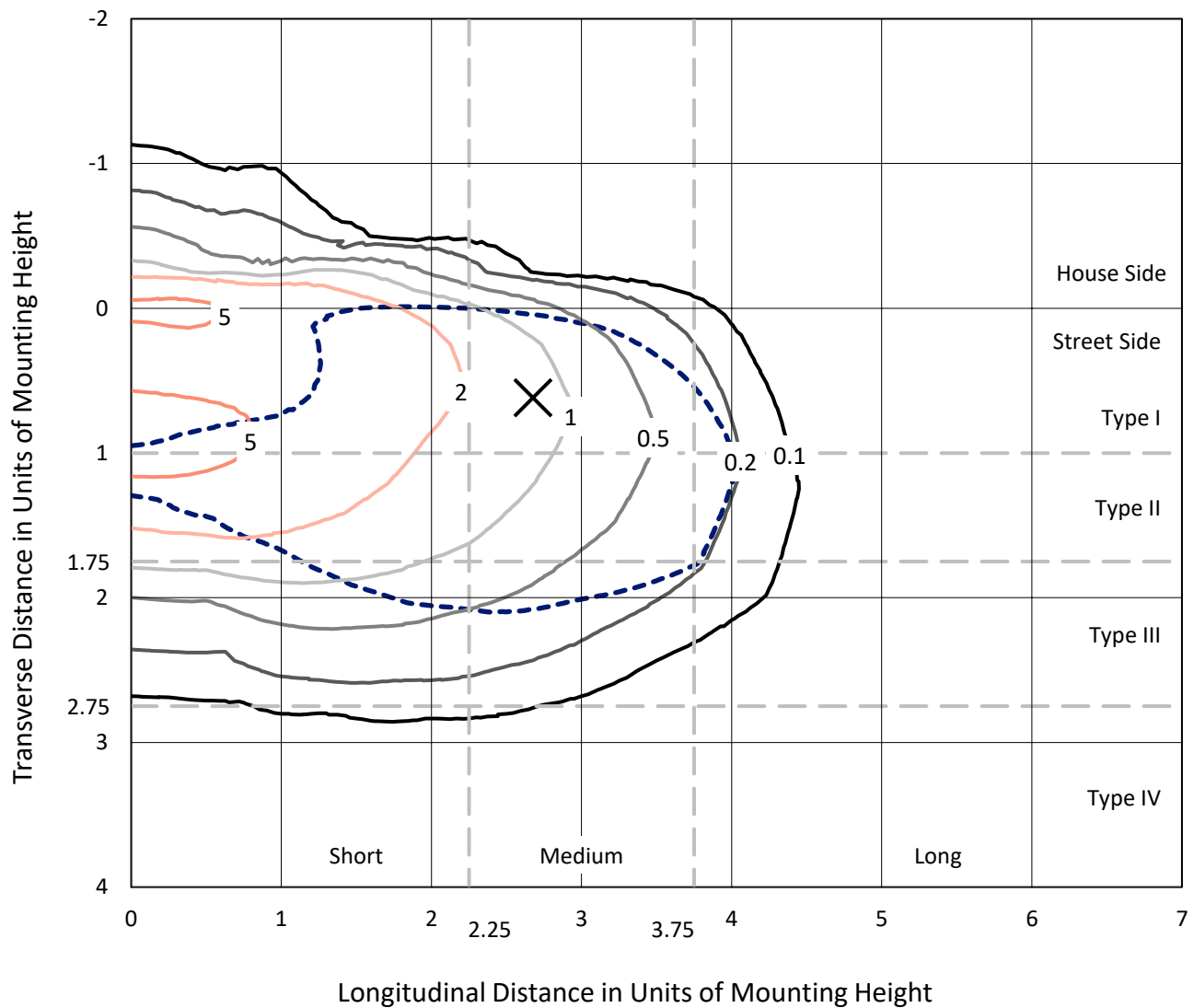


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Iso-Footcandle Lines of Horizontal Illumination

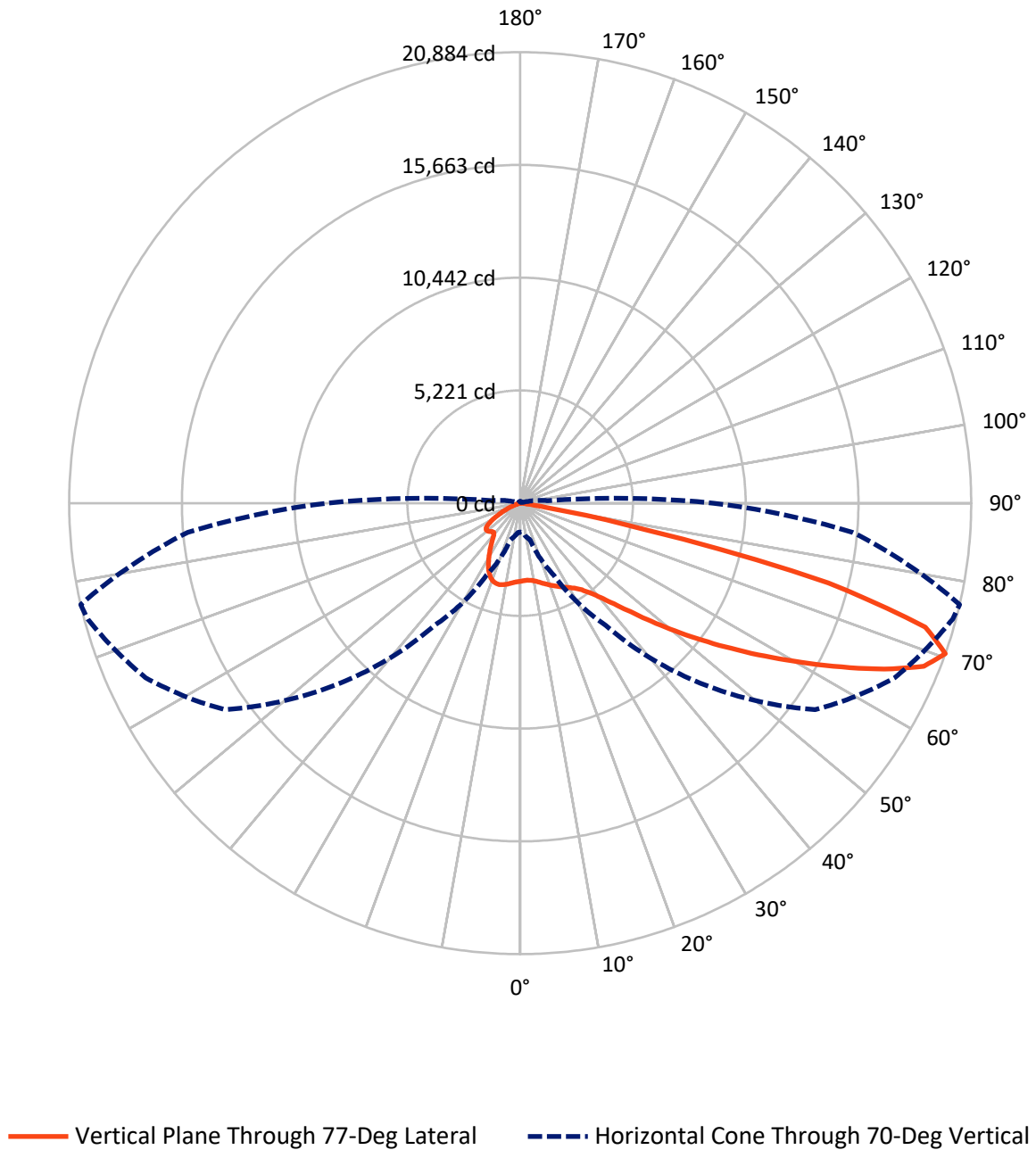
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	2443.3	0.0	2443.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20734.7	0.0	20734.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	23178.0	0.0	23178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.6	1.3
10°-20°	739.7	3.2
20°-30°	1144.1	4.9
30°-40°	2076.0	9.0
40°-50°	3918.6	16.9
50°-60°	5662.1	24.4
60°-70°	6027.1	26.0
70°-80°	3194.0	13.8
80°-90°	104.9	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°	23178.0	100.0
0°-180°	23178.0	100.0

Coefficient of Utilization



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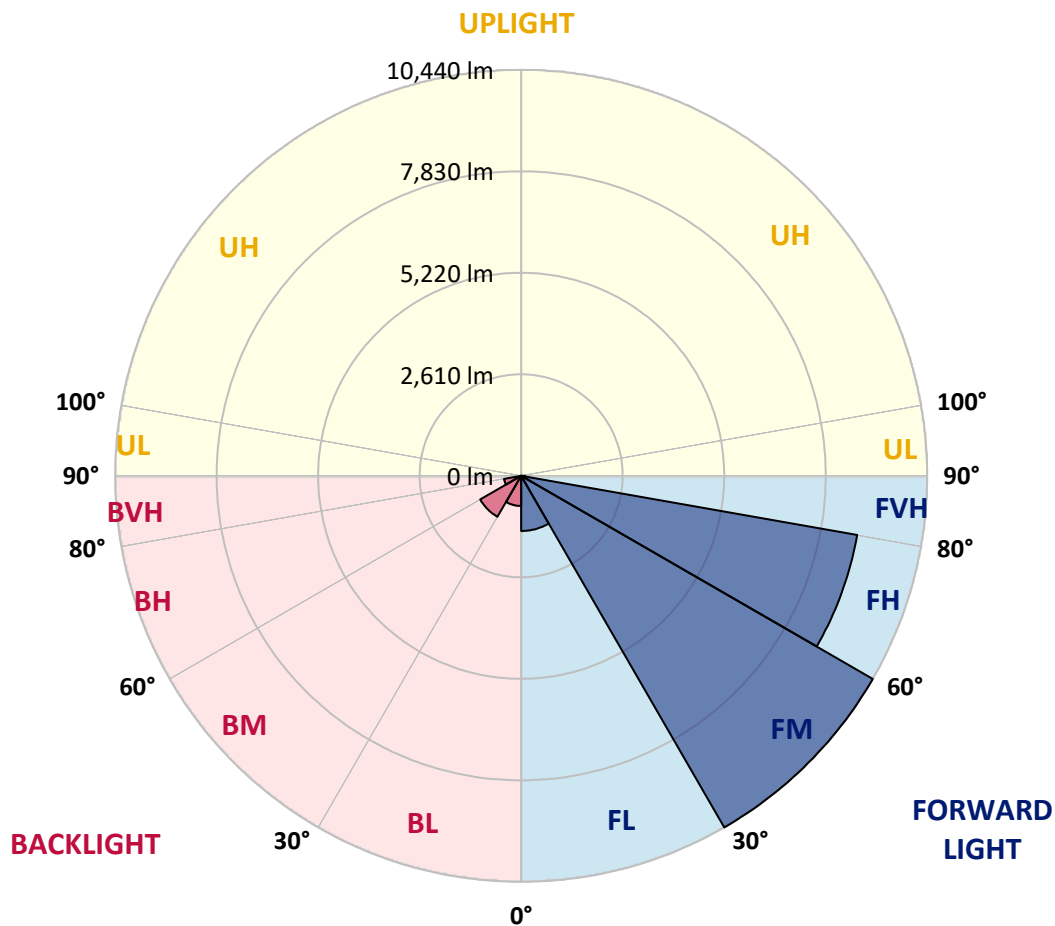
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1419.0	6.1			
FM	(30°-60°)	10440.4	45.0			
FH	(60°-80°)	8773.2	37.9			G4/12000
FVH	(80°-90°)	102.1	0.4			G2/225
BL	(0°-30°)	776.3	3.3	B2/1000		
BM	(30°-60°)	1216.3	5.2	B2/2500		
BH	(60°-80°)	447.9	1.9	B1/500		G1/500
BVH	(80°-90°)	2.8	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3
2.5°	3394.3	3425.1	3420.7	3441.2	3448.5	3477.8	3507.0	3546.6	3590.5	3589.0	3618.3
5°	3202.6	3233.3	3240.6	3268.5	3303.6	3349.0	3409.0	3488.0	3570.0	3583.1	3641.7
7.5°	2975.7	3007.9	3026.9	3082.6	3147.0	3240.6	3338.7	3454.3	3590.5	3609.5	3722.2
10°	2748.8	2778.1	2803.0	2882.0	2984.5	3123.5	3283.1	3450.0	3632.9	3660.7	3820.3
12.5°	2608.3	2636.1	2663.9	2732.7	2860.1	3029.9	3246.5	3470.4	3703.2	3742.7	3953.5
15°	2558.6	2583.4	2605.4	2666.9	2785.4	2978.6	3239.2	3512.9	3792.5	3845.2	4114.5
17.5°	2565.9	2579.0	2593.7	2640.5	2756.2	2955.2	3252.4	3586.1	3897.8	3944.7	4275.5
20°	2608.3	2615.6	2617.1	2649.3	2751.8	2952.3	3278.7	3656.3	3997.4	4060.3	4435.0
22.5°	2662.5	2665.4	2662.5	2684.4	2779.6	2974.2	3313.8	3741.2	4108.6	4167.2	4596.0
25°	2915.7	2860.1	2789.8	2747.4	2826.4	3016.7	3366.5	3855.4	4230.1	4287.2	4752.6
27.5°	3701.7	3542.2	3290.4	3007.9	2923.0	3078.2	3439.7	3971.0	4353.1	4404.3	4921.0
30°	4978.1	4768.7	4341.3	3704.6	3233.3	3207.0	3534.8	4086.7	4483.3	4538.9	5101.0
32.5°	6257.3	6206.1	5712.8	4831.7	3931.5	3493.9	3692.9	4243.3	4656.0	4700.0	5344.0
35°	7551.3	7447.3	7043.3	6172.4	5007.3	4077.9	3956.4	4448.2	4882.9	4932.7	5698.2
37.5°	8542.2	8479.2	8228.9	7511.7	6283.7	4979.5	4407.2	4765.8	5212.3	5267.9	6151.9
40°	9417.5	9388.2	9303.3	8830.5	7710.8	6159.3	5108.3	5257.6	5668.9	5734.8	6708.2
42.5°	10105.4	10174.2	10222.5	10090.8	9181.8	7505.9	6051.0	5948.5	6305.6	6373.0	7416.6
45°	10809.5	10832.9	11027.5	11217.8	10642.6	8914.0	7113.6	6757.9	7097.5	7180.9	8265.5
47.5°	11261.7	11355.4	11697.9	12033.1	11870.6	10310.3	8255.3	7713.7	8015.2	8171.9	9216.9
50°	11295.4	11472.5	11943.8	12527.8	12765.0	11639.4	9496.5	8802.7	9123.3	9296.0	10232.8
52.5°	10734.8	11010.0	11740.4	12595.2	13248.0	12765.0	10780.2	9891.7	10303.0	10528.4	11286.6
55°	8230.4	8590.5	10974.9	12229.2	13267.0	13618.3	12030.2	11026.1	11617.4	11872.1	12425.4
57.5°	7170.7	7352.2	8628.5	11594.0	12914.3	13962.3	13160.2	12106.3	13047.5	13363.6	13501.2
60°	5966.1	6204.6	7236.6	10554.8	12435.6	13995.9	14158.4	13499.7	14597.5	14953.2	14487.7
62.5°	4054.5	4313.5	5339.6	8769.1	11781.4	13979.8	14976.6	14934.2	16320.3	16702.3	15323.5
65°	2511.7	2674.2	3350.4	7160.4	10866.5	13997.4	15832.9	16676.0	18138.2	18526.1	15970.5
67.5°	1984.8	2059.4	2412.2	5497.7	9290.1	13602.2	16687.7	18313.9	19849.3	20156.7	16168.1
70°	1333.4	1378.8	1755.0	3685.6	6911.6	11778.4	16671.6	19136.5	20730.4	20884.1	15447.9
72.5°	702.6	737.7	1026.1	1706.7	4174.5	8372.4	14053.0	18152.9	19853.7	19622.4	13204.1
75°	351.3	409.8	690.9	866.5	1782.8	4669.2	8726.6	14312.1	15626.5	14730.7	8471.9
77.5°	266.4	322.0	570.8	570.8	620.6	1572.0	3695.9	7805.9	7200.0	5995.3	2486.8
80°	169.8	219.6	499.1	431.8	259.1	399.6	963.1	2186.8	1529.6	1163.6	452.3
82.5°	99.5	143.4	415.7	285.4	144.9	147.8	272.2	465.5	396.7	308.8	139.1
85°	39.5	93.7	285.4	112.7	57.1	36.6	82.0	99.5	82.0	61.5	35.1
87.5°	0.0	22.0	49.8	0.0	4.4	2.9	5.9	7.3	7.3	5.9	11.7
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°	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3	3615.3
2.5°	3631.5	3634.4	3643.2	3644.6	3624.1	3597.8	3587.5	3583.1	3565.6	3564.1	3567.0
5°	3675.4	3688.5	3675.4	3637.3	3546.6	3419.2	3322.6	3243.6	3171.8	3149.9	3136.7
7.5°	3763.2	3776.4	3736.8	3587.5	3359.2	3106.0	2877.6	2716.6	2571.7	2517.6	2495.6
10°	3889.1	3906.6	3782.2	3480.7	3076.7	2669.8	2283.4	2011.1	1798.9	1712.5	1675.9
12.5°	4047.1	4054.5	3807.1	3318.2	2709.3	2128.2	1580.8	1289.5	1100.7	1030.4	1008.5
15°	4221.3	4211.1	3810.0	3097.2	2208.7	1504.7	1031.9	847.5	771.4	748.0	748.0
17.5°	4404.3	4361.8	3751.5	2778.1	1659.8	1029.0	765.5	721.6	708.4	702.6	701.1
20°	4584.3	4489.2	3644.6	2361.0	1191.5	768.4	695.3	682.1	674.8	671.8	668.9
22.5°	4748.3	4585.8	3461.7	1876.5	865.0	679.2	657.2	645.5	632.3	626.5	625.0
25°	4907.8	4641.4	3204.0	1424.2	692.3	635.2	617.7	595.7	578.2	570.8	567.9
27.5°	5063.0	4676.5	2882.0	1053.9	617.7	594.3	562.1	531.3	518.2	515.2	512.3
30°	5228.4	4688.2	2516.1	786.0	572.3	543.0	496.2	461.1	453.7	455.2	455.2
32.5°	5430.3	4705.8	2147.3	644.0	534.3	481.6	425.9	389.3	383.5	389.3	387.9
35°	5671.9	4740.9	1791.6	592.8	500.6	418.6	358.6	327.9	322.0	326.4	324.9
37.5°	5999.7	4798.0	1459.3	582.6	472.8	365.9	301.5	276.6	276.6	278.1	276.6
40°	6435.9	4950.2	1162.2	575.2	458.1	326.4	254.7	244.4	248.8	251.8	251.8
42.5°	6967.2	5273.7	961.7	566.5	442.0	308.8	231.3	226.9	234.2	237.1	237.1
45°	7563.0	5683.6	891.4	551.8	427.4	320.6	221.0	215.2	223.9	225.4	226.9
47.5°	8179.2	6084.6	882.6	535.7	412.8	338.1	218.1	204.9	215.2	216.6	218.1
50°	8802.7	6346.6	891.4	510.8	389.3	338.1	219.6	194.7	203.5	207.8	209.3
52.5°	9430.6	6466.6	885.5	456.7	348.4	317.6	219.6	185.9	194.7	197.6	197.6
55°	10039.5	6443.2	796.3	376.2	295.7	281.0	213.7	178.6	184.4	185.9	185.9
57.5°	10521.1	6116.8	630.9	292.7	240.0	234.2	194.7	169.8	174.2	172.7	172.7
60°	10772.9	5399.6	450.8	225.4	188.8	184.4	171.3	158.1	161.0	153.7	152.2
62.5°	10775.8	4451.1	301.5	178.6	150.8	146.4	146.4	142.0	139.1	124.4	120.0
65°	10546.0	3398.7	200.5	142.0	121.5	114.2	123.0	121.5	111.2	90.7	87.8
67.5°	10024.9	2227.8	152.2	111.2	93.7	89.3	98.1	102.5	95.1	76.1	74.6
70°	8953.5	1296.8	125.9	86.4	70.3	65.9	79.0	87.8	79.0	61.5	58.5
72.5°	7437.1	699.7	102.5	64.4	48.3	43.9	62.9	71.7	62.9	45.4	43.9
75°	4825.8	374.7	79.0	42.4	24.9	27.8	46.8	52.7	43.9	29.3	26.3
77.5°	1620.3	165.4	49.8	20.5	11.7	11.7	27.8	32.2	20.5	10.2	8.8
80°	361.5	68.8	20.5	8.8	4.4	4.4	5.9	5.9	2.9	0.0	0.0
82.5°	118.6	27.8	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.4	10.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	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)