

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: P954864

Luminaire Tested: **GALN-SB8A-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954864
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-SB8A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 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: 28010 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 227.1
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

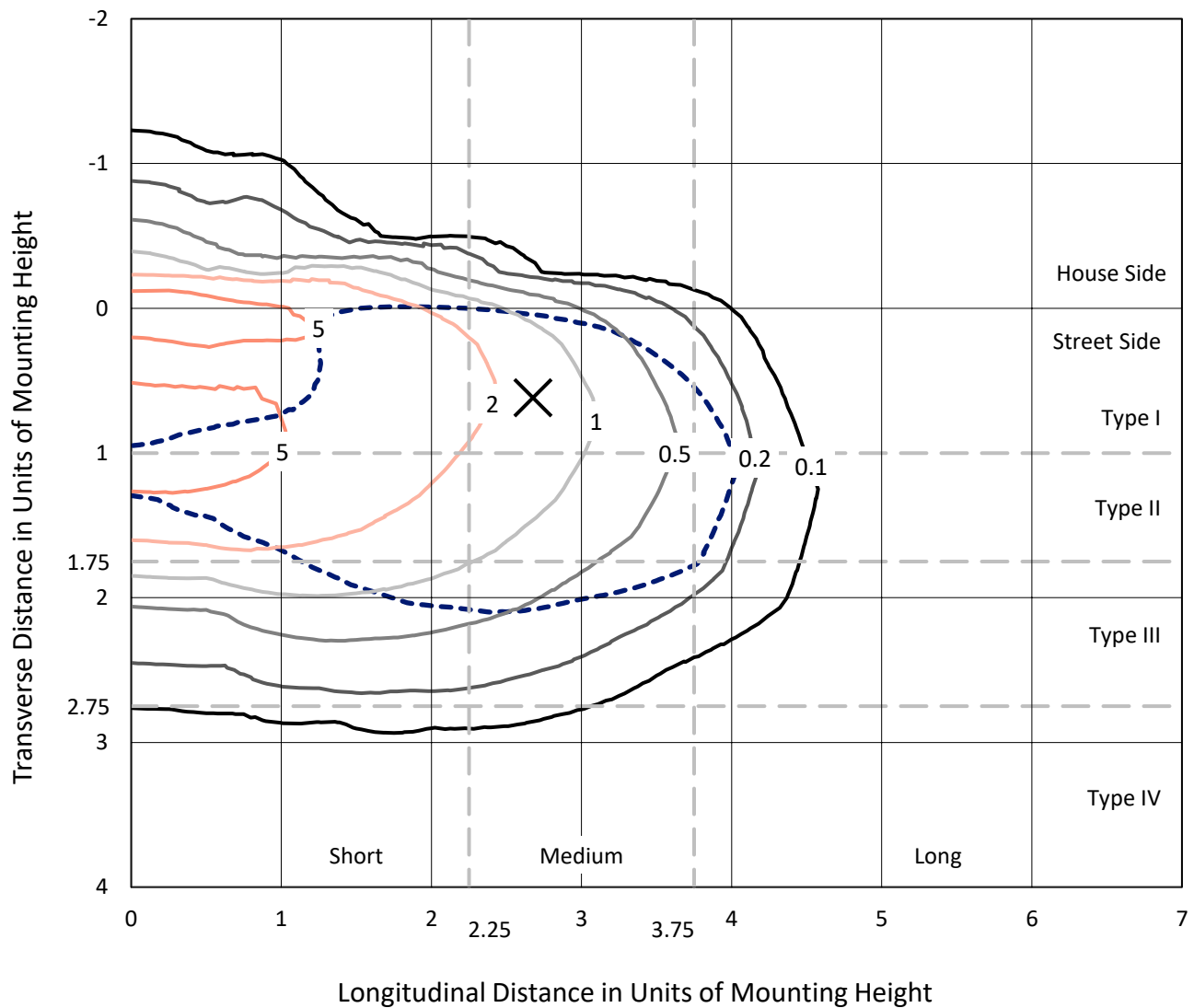


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

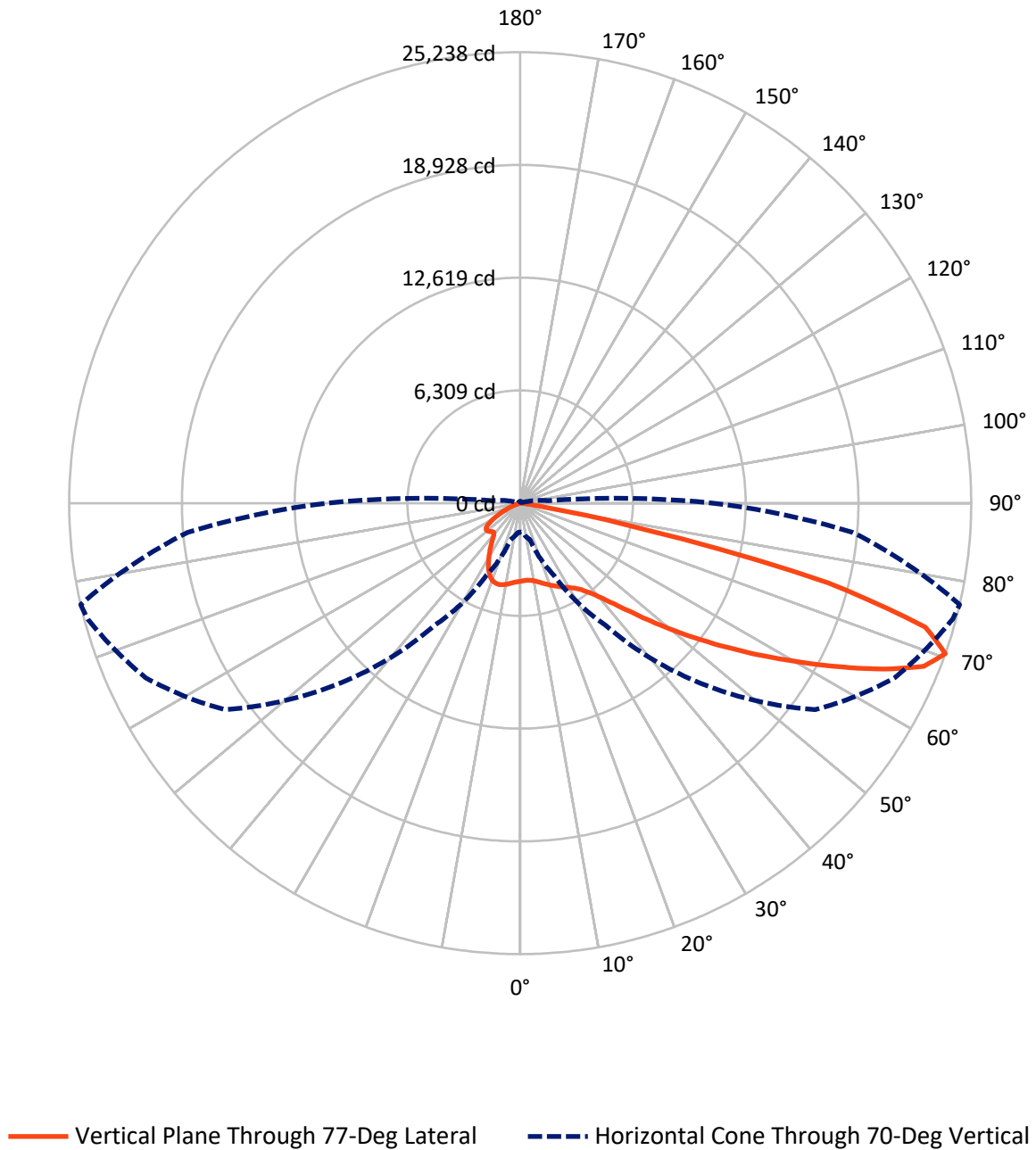


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2952.7	0.0	2952.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25057.4	0.0	25057.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	28010.0	0.0	28010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.5	1.3
10°-20°	893.9	3.2
20°-30°	1382.6	4.9
30°-40°	2508.7	9.0
40°-50°	4735.6	16.9
50°-60°	6842.5	24.4
60°-70°	7283.7	26.0
70°-80°	3859.8	13.8
80°-90°	126.7	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°	28010.0	100.0
0°-180°	28010.0	100.0

Coefficient of Utilization



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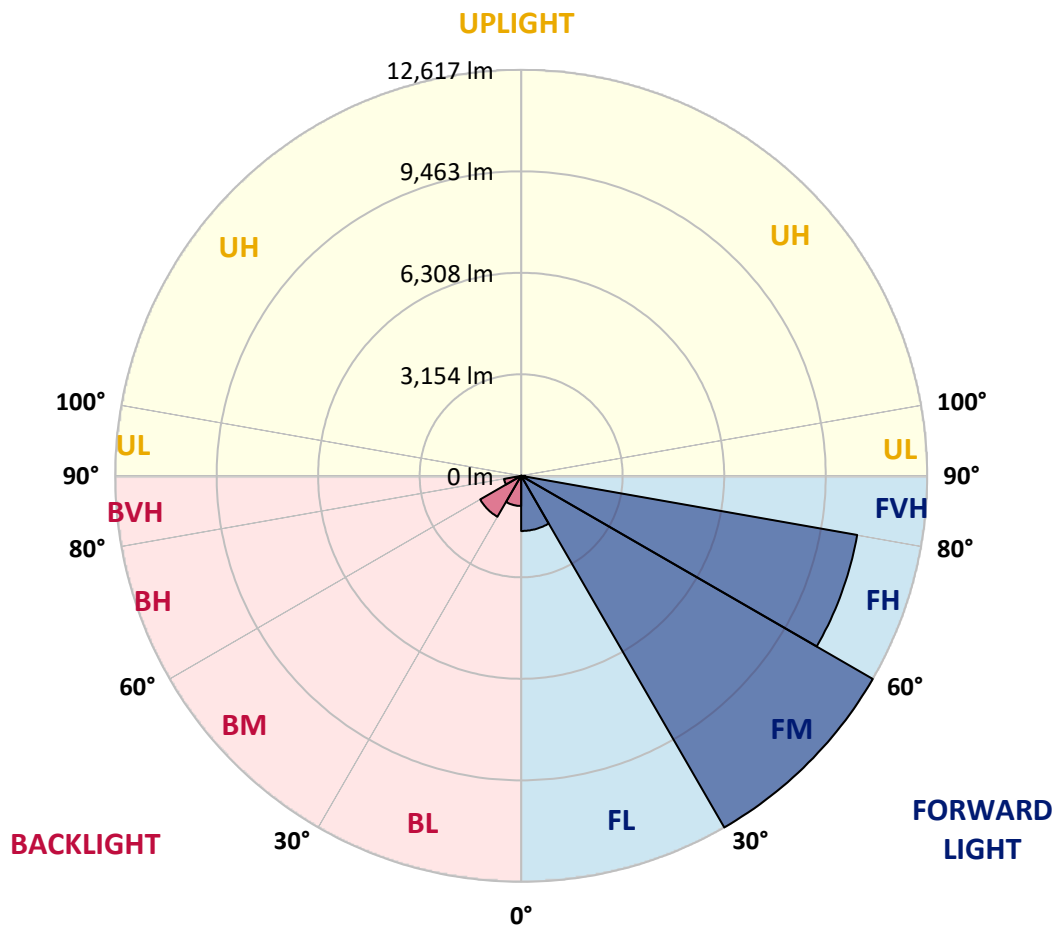
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1714.9	6.1			
FM	(30°-60°)	12617.0	45.0			
FH	(60°-80°)	10602.2	37.9			G4/12000
FVH	(80°-90°)	123.3	0.4			G2/225
BL	(0°-30°)	938.1	3.3	B2/1000		
BM	(30°-60°)	1469.8	5.2	B2/2500		
BH	(60°-80°)	541.3	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.4	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°	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1
2.5°	4102.0	4139.1	4133.8	4158.6	4167.4	4202.8	4238.2	4285.9	4339.0	4337.2	4372.6
5°	3870.2	3907.4	3916.2	3949.8	3992.3	4047.1	4119.6	4215.2	4314.2	4330.1	4400.9
7.5°	3596.1	3635.0	3658.0	3725.2	3803.0	3916.2	4034.7	4174.5	4339.0	4362.0	4498.2
10°	3321.9	3357.3	3387.3	3482.9	3606.7	3774.7	3967.5	4169.2	4390.3	4423.9	4616.7
12.5°	3152.1	3185.7	3219.3	3302.4	3456.3	3661.5	3923.3	4193.9	4475.2	4522.9	4777.7
15°	3091.9	3122.0	3148.5	3222.8	3366.1	3599.6	3914.5	4245.2	4583.1	4646.8	4972.2
17.5°	3100.8	3116.7	3134.4	3191.0	3330.7	3571.3	3930.4	4333.7	4710.4	4767.0	5166.8
20°	3152.1	3160.9	3162.7	3201.6	3325.4	3567.8	3962.2	4418.6	4830.7	4906.8	5359.6
22.5°	3217.5	3221.1	3217.5	3244.1	3359.0	3594.3	4004.7	4521.2	4965.2	5035.9	5554.2
25°	3523.5	3456.3	3371.4	3320.1	3415.6	3645.6	4068.3	4659.1	5112.0	5181.0	5743.4
27.5°	4473.4	4280.6	3976.4	3635.0	3532.4	3719.9	4156.8	4798.9	5260.6	5322.5	5946.9
30°	6015.9	5762.9	5246.4	4477.0	3907.4	3875.5	4271.8	4938.6	5418.0	5485.2	6164.4
32.5°	7561.8	7499.9	6903.8	5839.0	4751.1	4222.2	4462.8	5127.9	5626.7	5679.8	6458.1
35°	9125.5	8999.9	8511.7	7459.2	6051.2	4928.0	4781.2	5375.5	5900.9	5961.0	6886.1
37.5°	10323.0	10246.9	9944.5	9077.7	7593.7	6017.6	5326.0	5759.4	6298.9	6366.1	7434.5
40°	11380.8	11345.4	11242.8	10671.5	9318.3	7443.3	6173.3	6353.7	6850.7	6930.3	8106.6
42.5°	12212.1	12295.3	12353.6	12194.4	11096.0	9070.7	7312.4	7188.6	7620.2	7701.6	8962.8
45°	13062.9	13091.2	13326.5	13556.4	12861.3	10772.3	8596.6	8166.8	8577.1	8678.0	9988.7
47.5°	13609.5	13722.7	14136.6	14541.7	14345.4	12459.8	9976.3	9321.8	9686.2	9875.5	11138.4
50°	13650.2	13864.2	14433.8	15139.6	15426.1	14065.9	11476.3	10637.9	11025.2	11234.0	12366.0
52.5°	12972.7	13305.3	14187.9	15220.9	16009.8	15426.1	13027.6	11953.9	12450.9	12723.3	13639.6
55°	9946.2	10381.4	13262.8	14778.7	16032.8	16457.4	14538.2	13324.7	14039.3	14347.1	15015.7
57.5°	8665.6	8884.9	10427.4	14011.0	15606.5	16873.0	15903.7	14630.1	15767.5	16149.6	16315.9
60°	7209.8	7498.1	8745.2	12755.2	15028.1	16913.7	17110.1	16314.1	17640.7	18070.5	17508.1
62.5°	4899.7	5212.8	6452.8	10597.2	14237.5	16894.3	18098.9	18047.6	19722.7	20184.3	18518.1
65°	3035.3	3231.7	4048.9	8653.2	13131.9	16915.5	19133.6	20152.5	21919.6	22388.3	19299.9
67.5°	2398.6	2488.8	2915.1	6643.8	11226.9	16437.9	20166.6	22131.8	23987.3	24358.8	19538.7
70°	1611.4	1666.3	2120.8	4454.0	8352.5	14233.9	20147.2	23125.9	25052.2	25237.9	18668.4
72.5°	849.0	891.5	1240.0	2062.5	5044.8	10117.8	16982.7	21937.3	23992.7	23713.2	15956.8
75°	424.5	495.3	834.9	1047.2	2154.5	5642.6	10545.9	17295.8	18884.2	17801.7	10238.1
77.5°	321.9	389.1	689.9	689.9	750.0	1899.7	4466.3	9433.3	8701.0	7245.2	3005.3
80°	205.2	265.3	603.2	521.8	313.1	482.9	1163.9	2642.7	1848.4	1406.2	546.6
82.5°	120.3	173.3	502.4	344.9	175.1	178.7	329.0	562.5	479.4	373.2	168.0
85°	47.8	113.2	344.9	136.2	69.0	44.2	99.1	120.3	99.1	74.3	42.5
87.5°	0.0	26.5	60.1	0.0	5.3	3.5	7.1	8.8	8.8	7.1	14.2
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°	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1	4369.1
2.5°	4388.5	4392.0	4402.7	4404.4	4379.7	4347.8	4335.4	4330.1	4308.9	4307.1	4310.7
5°	4441.6	4457.5	4441.6	4395.6	4285.9	4132.0	4015.3	3919.8	3833.1	3806.6	3790.6
7.5°	4547.7	4563.6	4515.9	4335.4	4059.5	3753.5	3477.6	3283.0	3107.9	3042.4	3015.9
10°	4699.8	4721.1	4570.7	4206.3	3718.1	3226.4	2759.4	2430.4	2173.9	2069.6	2025.3
12.5°	4890.9	4899.7	4600.8	4010.0	3274.1	2571.9	1910.4	1558.4	1330.2	1245.3	1218.7
15°	5101.4	5089.0	4604.3	3742.9	2669.2	1818.4	1247.0	1024.2	932.2	903.9	903.9
17.5°	5322.5	5271.2	4533.6	3357.3	2005.9	1243.5	925.1	872.0	856.1	849.0	847.3
20°	5540.0	5425.1	4404.4	2853.2	1439.8	928.6	840.2	824.3	815.4	811.9	808.4
22.5°	5738.1	5541.8	4183.3	2267.7	1045.4	820.7	794.2	780.1	764.1	757.1	755.3
25°	5930.9	5609.0	3872.0	1721.1	836.7	767.7	746.5	719.9	698.7	689.9	686.3
27.5°	6118.4	5651.5	3482.9	1273.6	746.5	718.2	679.2	642.1	626.2	622.6	619.1
30°	6318.3	5665.6	3040.6	949.9	691.6	656.2	599.6	557.2	548.3	550.1	550.1
32.5°	6562.4	5686.8	2594.9	778.3	645.6	582.0	514.7	470.5	463.4	470.5	468.7
35°	6854.3	5729.3	2165.1	716.4	604.9	505.9	433.4	396.2	389.1	394.5	392.7
37.5°	7250.5	5798.3	1763.5	704.0	571.3	442.2	364.4	334.3	334.3	336.1	334.3
40°	7777.6	5982.2	1404.5	695.2	553.6	394.5	307.8	295.4	300.7	304.2	304.2
42.5°	8419.7	6373.2	1162.1	684.5	534.2	373.2	279.5	274.2	283.0	286.6	286.6
45°	9139.6	6868.4	1077.2	666.9	516.5	387.4	267.1	260.0	270.6	272.4	274.2
47.5°	9884.3	7353.1	1066.6	647.4	498.8	408.6	263.6	247.6	260.0	261.8	263.6
50°	10637.9	7669.7	1077.2	617.3	470.5	408.6	265.3	235.3	245.9	251.2	252.9
52.5°	11396.7	7814.8	1070.2	551.9	421.0	383.8	265.3	224.6	235.3	238.8	238.8
55°	12132.5	7786.5	962.3	454.6	357.3	339.6	258.3	215.8	222.9	224.6	224.6
57.5°	12714.5	7392.0	762.4	353.8	290.1	283.0	235.3	205.2	210.5	208.7	208.7
60°	13018.7	6525.3	544.8	272.4	228.2	222.9	207.0	191.0	194.6	185.7	184.0
62.5°	13022.3	5379.1	364.4	215.8	182.2	176.9	176.9	171.6	168.0	150.4	145.0
65°	12744.5	4107.3	242.3	171.6	146.8	138.0	148.6	146.8	134.4	109.7	106.1
67.5°	12114.8	2692.2	184.0	134.4	113.2	107.9	118.5	123.8	115.0	92.0	90.2
70°	10820.0	1567.2	152.1	104.4	84.9	79.6	95.5	106.1	95.5	74.3	70.8
72.5°	8987.5	845.5	123.8	77.8	58.4	53.1	76.1	86.7	76.1	54.8	53.1
75°	5831.9	452.8	95.5	51.3	30.1	33.6	56.6	63.7	53.1	35.4	31.8
77.5°	1958.1	199.9	60.1	24.8	14.2	14.2	33.6	38.9	24.8	12.4	10.6
80°	436.9	83.1	24.8	10.6	5.3	5.3	7.1	7.1	3.5	0.0	0.0
82.5°	143.3	33.6	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.8	12.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	1.8	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)