

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: P457086

Luminaire Tested: **GALN-SA8B-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26446 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

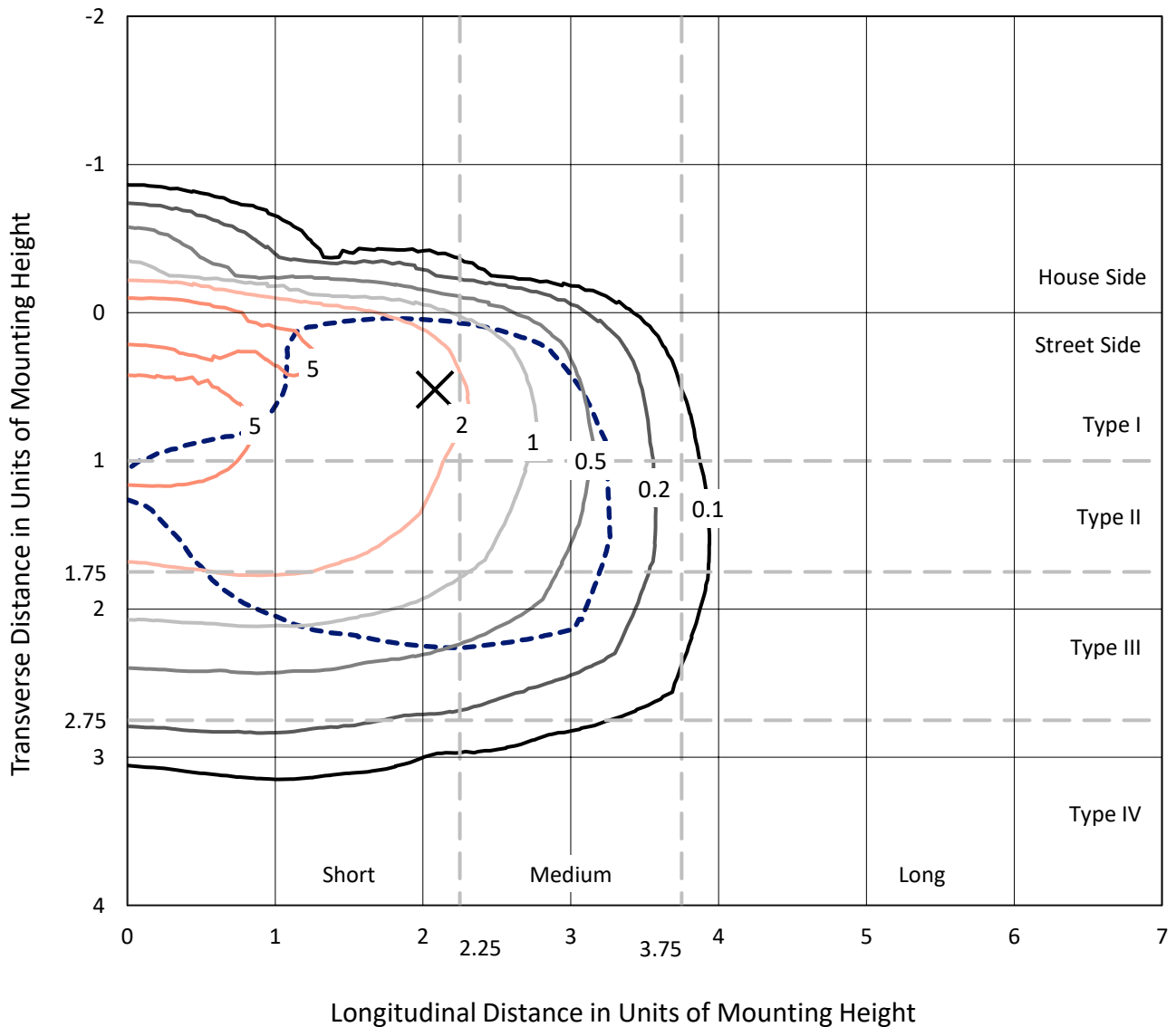
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

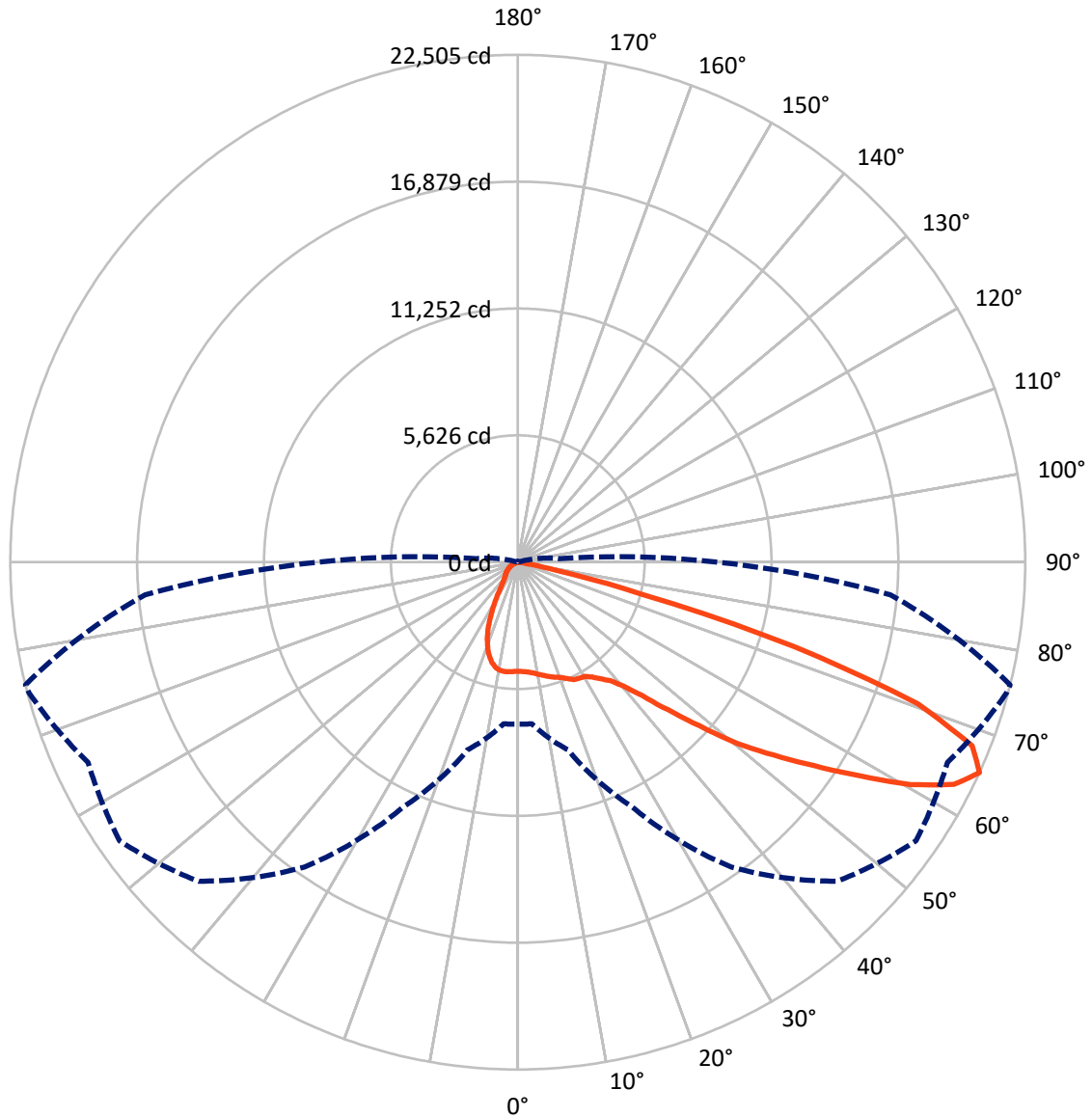
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1909.9	0.0	1909.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24536.1	0.0	24536.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	26446.0	0.0	26446.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.5	1.5
10°-20°	887.3	3.4
20°-30°	1429.9	5.4
30°-40°	2486.2	9.4
40°-50°	4108.3	15.5
50°-60°	6346.4	24.0
60°-70°	7749.9	29.3
70°-80°	2941.3	11.1
80°-90°	98.2	0.4
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°	26446.0	100.0
0°-180°	26446.0	100.0



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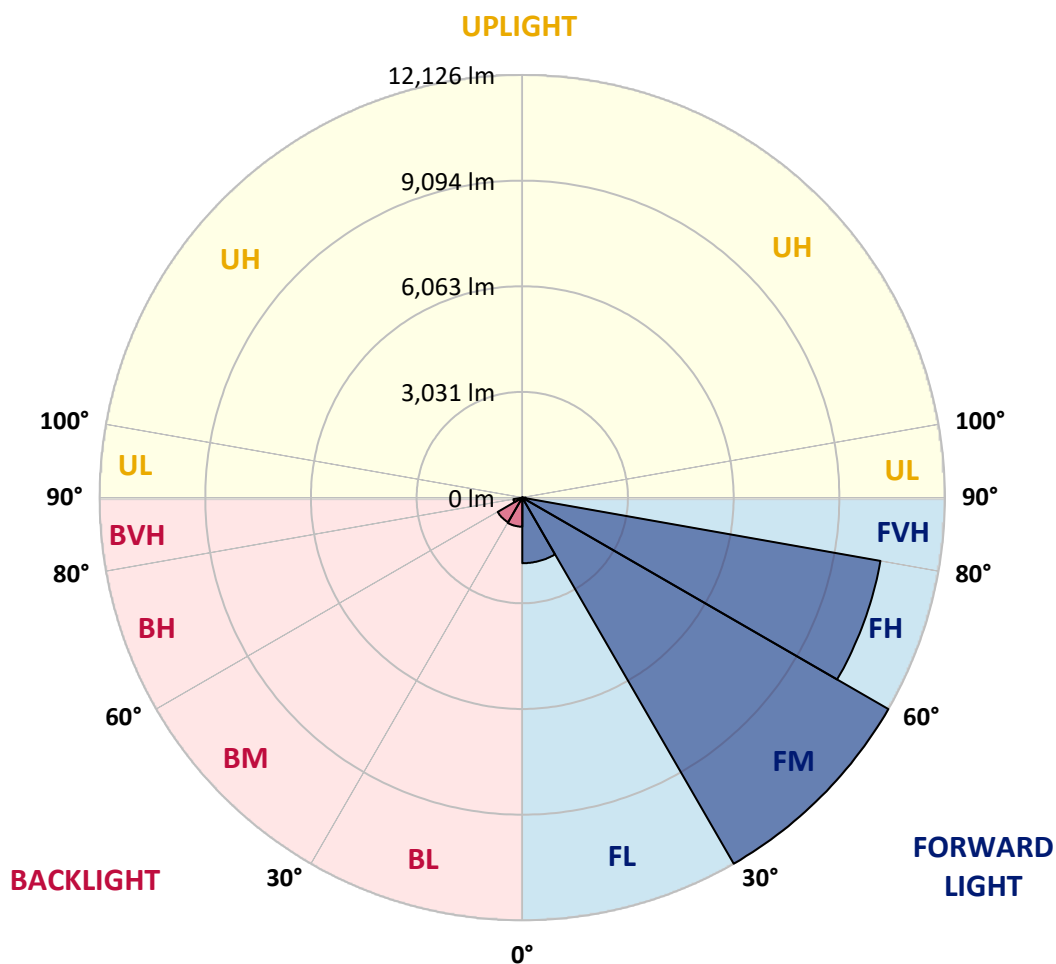
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1881.3	7.1			
FM (30°-60°)	12125.9	45.9			
FH (60°-80°)	10432.0	39.4			G4/12000
FVH (80°-90°)	96.8	0.4			G1/100
BL (0°-30°)	834.4	3.2	B2/1000		
BM (30°-60°)	815.0	3.1	B1/1000		
BH (60°-80°)	259.2	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8
2.5°	4623.1	4625.0	4636.2	4664.2	4707.1	4742.6	4772.5	4821.0	4854.6	4858.4	4869.6
5°	4303.8	4281.4	4303.8	4376.6	4442.0	4540.9	4662.3	4783.7	4892.0	4899.4	4951.7
7.5°	3945.3	3964.0	3999.5	4074.1	4197.4	4348.6	4524.1	4740.7	4946.1	4964.8	5067.5
10°	3581.2	3622.3	3680.2	3794.1	3965.9	4161.9	4400.9	4710.9	5032.0	5058.1	5235.5
12.5°	3245.1	3263.8	3334.8	3487.9	3700.7	3977.1	4307.5	4694.0	5127.2	5159.0	5414.8
15°	2987.5	3011.7	3073.3	3211.5	3448.6	3803.4	4231.0	4688.4	5220.6	5265.4	5594.0
17.5°	2938.9	2953.9	2980.0	3073.3	3280.6	3665.2	4161.9	4686.6	5310.2	5364.4	5760.2
20°	3138.7	3125.6	3099.5	3090.2	3204.1	3558.8	4111.5	4701.5	5396.1	5457.7	5935.7
22.5°	3639.1	3655.9	3502.8	3321.7	3284.3	3542.0	4104.0	4772.5	5532.4	5605.2	6131.8
25°	4701.5	4572.7	4333.7	3900.5	3573.7	3644.7	4188.0	4940.5	5691.1	5771.4	6309.1
27.5°	5876.0	5836.7	5465.2	4751.9	4143.2	3861.3	4337.4	5069.3	5743.4	5825.5	6410.0
30°	7029.9	7076.5	6650.8	5862.9	4970.4	4262.7	4477.5	5117.9	5790.1	5876.0	6538.8
32.5°	8099.7	8155.8	7782.3	7001.9	5945.0	4957.3	4718.3	5306.5	5986.1	6073.9	6753.5
35°	8941.8	8949.3	8667.4	8045.6	7009.3	5801.3	5239.3	5637.0	6251.3	6354.0	6981.3
37.5°	9714.8	9703.6	9373.2	8837.3	7896.2	6639.6	5894.6	6017.9	6553.7	6660.2	7309.9
40°	10288.1	10295.5	10189.1	9685.0	8723.4	7414.5	6413.7	6374.5	7061.6	7227.8	7787.9
42.5°	10670.8	10739.9	10792.2	10536.4	9763.4	8368.6	7211.0	7138.2	7942.9	8081.1	8463.8
45°	10980.8	11104.0	11365.4	11352.3	10762.3	9539.3	8305.1	8155.8	9192.0	9339.5	9324.6
47.5°	11206.7	11331.8	11765.0	12026.4	11701.5	10674.6	9681.2	9552.4	10683.9	10844.5	10275.0
50°	11322.5	11471.8	12024.5	12530.5	12435.3	11768.7	11249.7	11257.1	12485.7	12640.7	11376.6
52.5°	11051.7	11245.9	12162.7	13073.9	13258.7	12816.2	12719.1	12965.6	14089.6	14222.2	12371.8
55°	10187.2	10431.8	11974.1	13536.9	14212.8	14052.3	14388.4	14763.7	15842.9	15928.8	13393.2
57.5°	9640.2	9899.7	11417.7	13930.9	15359.3	15605.7	16137.9	16412.4	17652.2	17870.6	14565.7
60°	9179.0	9382.5	10960.2	14014.9	16524.4	17506.5	18023.7	18307.5	19885.3	20027.2	15855.9
62.5°	8411.6	8645.0	10187.2	13428.6	17110.7	19028.3	20100.0	19973.0	21612.4	21711.4	16647.6
65°	7177.4	7197.9	8618.8	11955.4	16505.7	20016.0	21558.3	21026.1	22437.7	22504.9	16586.0
67.5°	5356.9	5554.8	6630.3	9397.4	13942.1	19172.0	22030.6	21054.1	21916.8	21730.0	15269.7
70°	3450.5	3601.8	4494.3	6516.4	10052.8	15999.7	20464.1	19610.8	19235.5	18821.0	12498.8
72.5°	1592.7	1786.9	2670.0	3723.1	5961.8	11397.2	16612.1	15932.5	13845.0	12821.8	7944.8
75°	694.6	743.1	1318.2	1964.3	2795.1	6027.2	10952.8	9890.4	6253.1	5711.6	3179.8
77.5°	423.8	455.6	690.9	1053.1	1097.9	2296.6	5900.2	4315.0	1932.5	1704.7	862.6
80°	287.5	323.0	502.3	550.8	375.3	640.4	2214.5	1152.0	390.2	373.4	184.8
82.5°	140.0	177.4	371.6	308.1	162.4	205.4	644.2	246.5	113.9	106.4	65.4
85°	20.5	35.5	209.1	201.7	72.8	48.5	113.9	61.6	39.2	37.3	29.9
87.5°	0.0	0.0	71.0	31.7	7.5	7.5	13.1	13.1	14.9	13.1	14.9
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°	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8
2.5°	4875.2	4884.5	4849.0	4798.6	4744.5	4690.3	4613.8	4544.7	4503.6	4527.9	4468.1
5°	4962.9	4955.4	4862.1	4709.0	4505.5	4260.9	4018.1	3810.9	3743.7	3642.8	3631.6
7.5°	5084.3	5063.7	4865.8	4514.8	4055.5	3596.2	3148.0	2851.2	2681.2	2537.5	2541.2
10°	5254.2	5194.4	4822.9	4173.1	3416.9	2724.2	2152.8	1760.7	1590.8	1536.7	1493.7
12.5°	5429.7	5313.9	4703.4	3711.9	2660.7	1861.6	1308.9	1069.9	965.3	931.7	928.0
15°	5586.5	5403.6	4494.3	3157.4	1934.4	1189.4	892.5	814.1	801.0	802.9	801.0
17.5°	5741.5	5474.5	4204.8	2569.2	1314.5	853.3	767.4	748.7	754.3	761.8	759.9
20°	5870.4	5489.5	3835.2	1960.5	929.8	748.7	720.7	717.0	722.6	728.2	728.2
22.5°	6010.4	5500.7	3396.4	1357.4	759.9	696.5	681.5	681.5	689.0	696.5	698.3
25°	6115.0	5439.0	2871.7	974.7	670.3	646.0	638.6	640.4	647.9	651.6	649.8
27.5°	6131.8	5265.4	2315.3	746.9	608.7	584.4	577.0	584.4	575.1	580.7	577.0
30°	6146.7	5045.1	1751.4	629.2	552.7	515.3	504.1	492.9	485.5	476.1	474.3
32.5°	6193.4	4785.5	1279.0	565.8	500.4	459.3	433.2	401.4	377.2	369.7	367.8
35°	6213.9	4473.7	939.2	515.3	453.7	408.9	362.2	317.4	281.9	268.9	278.2
37.5°	6292.3	4171.2	728.2	478.0	412.6	356.6	296.9	240.9	207.3	199.8	203.5
40°	6452.9	3842.6	610.6	446.3	377.2	308.1	235.3	181.1	158.7	151.2	149.4
42.5°	6710.6	3515.9	543.3	416.4	341.7	259.5	184.8	141.9	123.2	117.6	117.6
45°	7024.3	3202.2	496.7	384.6	304.3	209.1	145.6	113.9	102.7	99.0	99.0
47.5°	7436.9	2927.7	457.5	352.9	263.3	166.2	117.6	99.0	91.5	93.4	95.2
50°	7855.2	2724.2	414.5	317.4	216.6	136.3	100.8	87.8	85.9	87.8	87.8
52.5°	8170.7	2604.7	356.6	268.9	169.9	113.9	89.6	82.2	80.3	76.6	76.6
55°	8596.4	2578.6	283.8	218.5	134.4	95.2	80.3	74.7	69.1	65.4	63.5
57.5°	9143.5	2608.4	218.5	169.9	104.6	78.4	71.0	61.6	54.1	46.7	46.7
60°	9483.3	2541.2	169.9	130.7	76.6	63.5	54.1	44.8	35.5	29.9	28.0
62.5°	9375.0	2257.4	134.4	97.1	54.1	46.7	35.5	29.9	20.5	14.9	13.1
65°	8816.7	1822.4	108.3	67.2	39.2	28.0	18.7	18.7	9.3	1.9	0.0
67.5°	7717.0	1350.0	85.9	44.8	22.4	13.1	9.3	5.6	0.0	0.0	0.0
70°	6281.1	974.7	67.2	28.0	13.1	9.3	3.7	1.9	0.0	0.0	0.0
72.5°	3988.3	558.3	52.3	16.8	9.3	3.7	0.0	0.0	0.0	0.0	0.0
75°	1542.3	218.5	35.5	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	436.9	102.7	20.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	113.9	44.8	11.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.1	18.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.7	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	1.9	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)