

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: P456767

Luminaire Tested: **GALN-SA8A-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456767
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-SA8A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA 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: 28912 lumens
Efficiency: N/A
Efficacy: 118.5 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

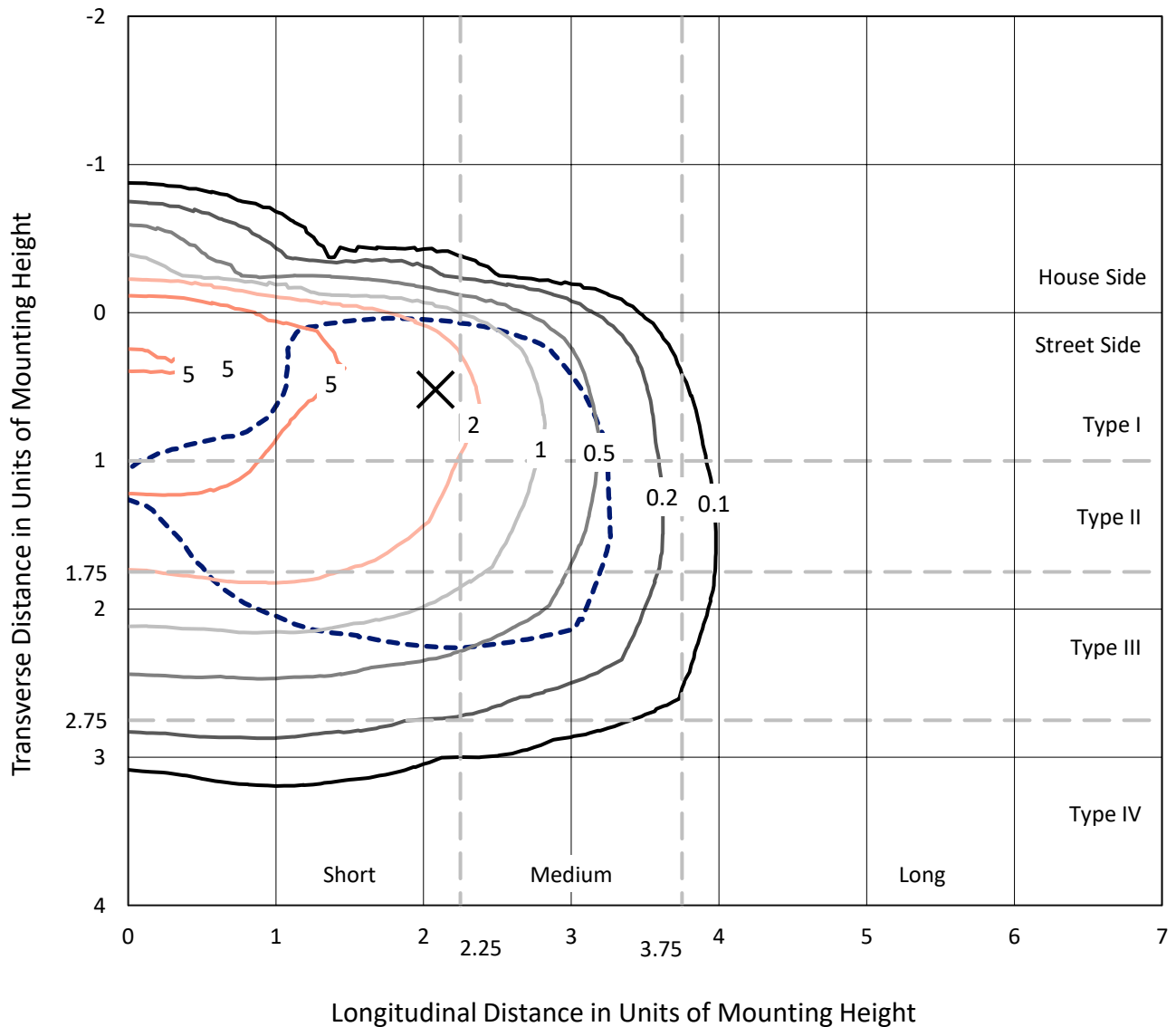
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

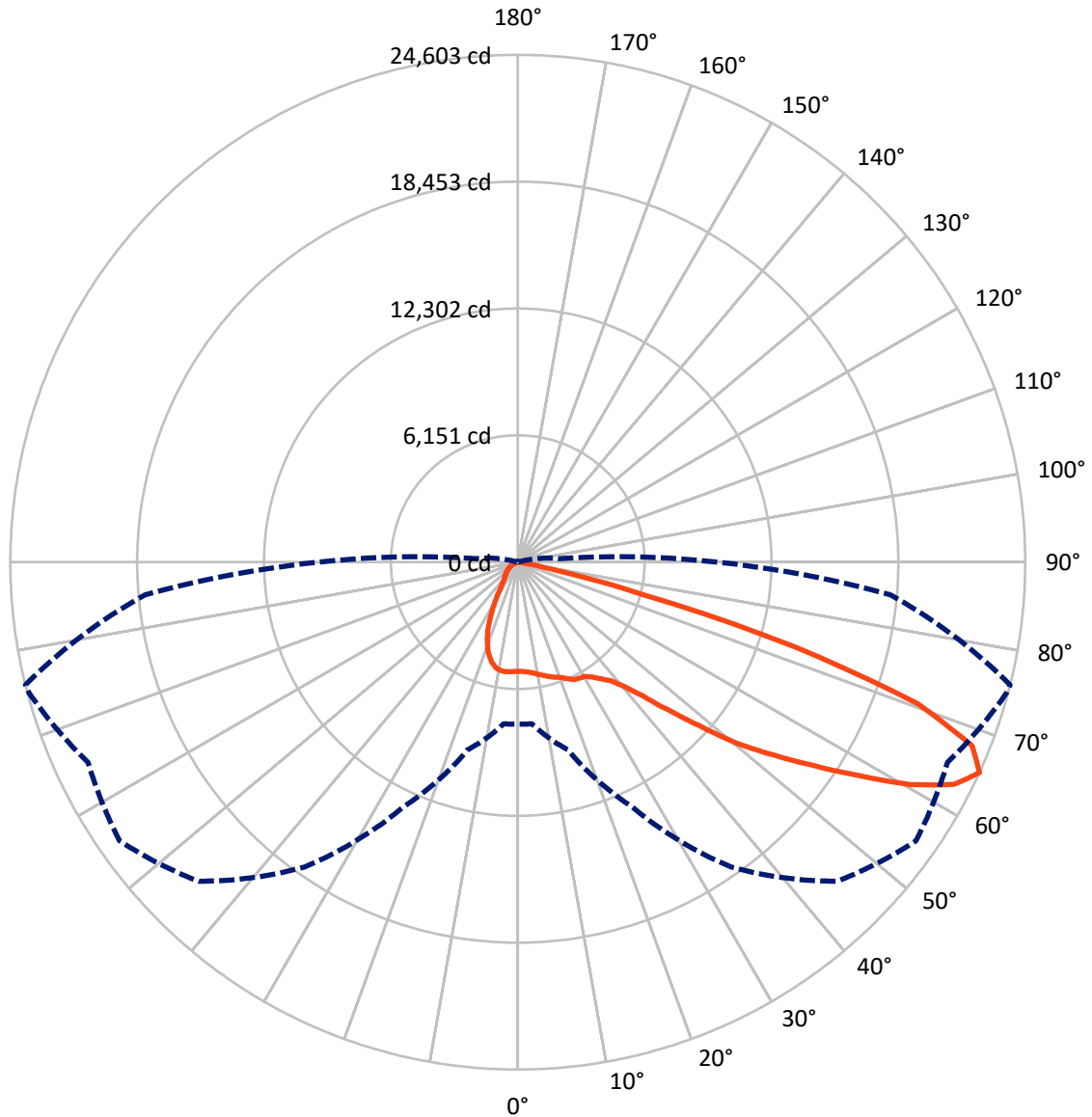
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	2088.0	0.0	2088.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26824.0	0.0	26824.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	28912.0	0.0	28912.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.7	1.5
10°-20°	970.1	3.4
20°-30°	1563.2	5.4
30°-40°	2718.0	9.4
40°-50°	4491.4	15.5
50°-60°	6938.2	24.0
60°-70°	8472.6	29.3
70°-80°	3215.6	11.1
80°-90°	107.3	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°	28912.0	100.0
0°-180°	28912.0	100.0



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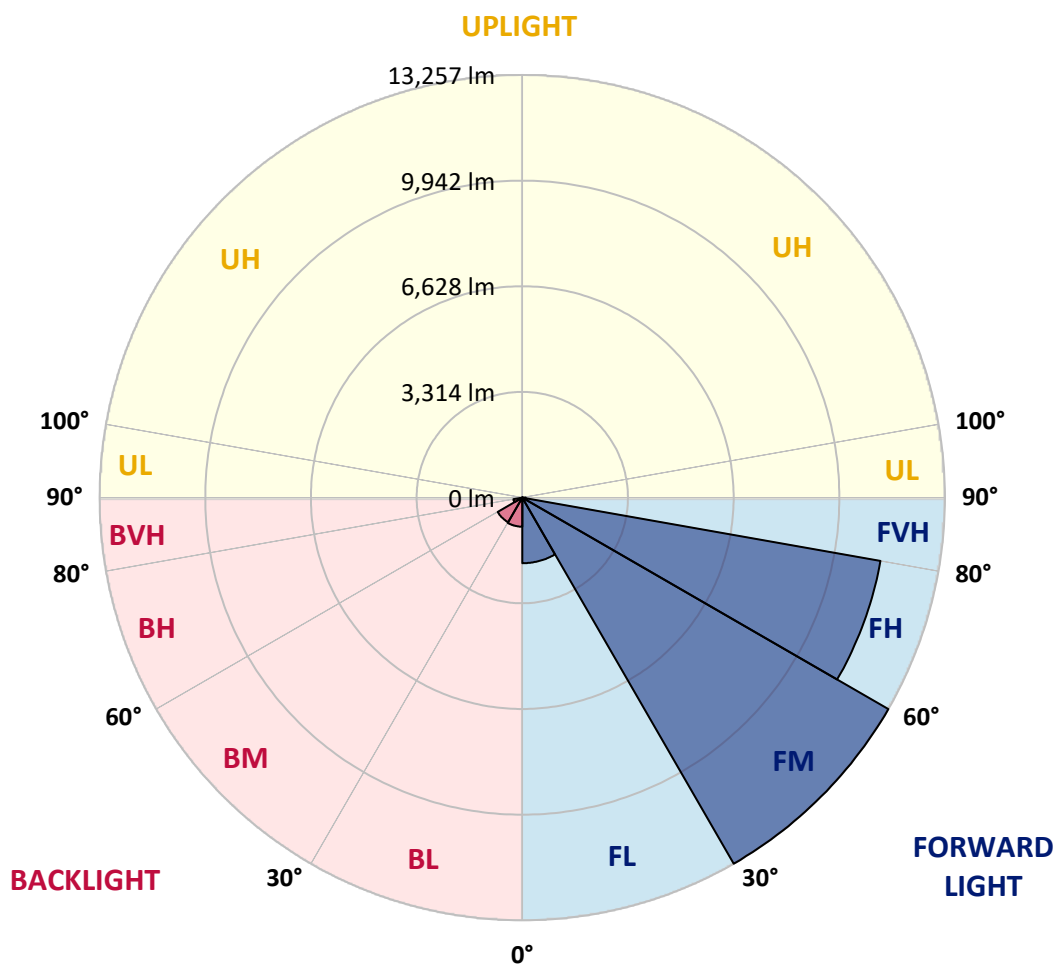
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.7	7.1			
FM (30°-60°)	13256.6	45.9			
FH (60°-80°)	11404.8	39.4			G4/12000
FVH (80°-90°)	105.8	0.4			G2/225
BL (0°-30°)	912.2	3.2	B2/1000		
BM (30°-60°)	891.0	3.1	B1/1000		
BH (60°-80°)	283.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	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°	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9
2.5°	5054.2	5056.2	5068.5	5099.1	5146.0	5184.8	5217.5	5270.6	5307.3	5311.4	5323.6
5°	4705.1	4680.6	4705.1	4784.7	4856.2	4964.4	5097.0	5229.7	5348.1	5356.3	5413.4
7.5°	4313.2	4333.6	4372.4	4454.0	4588.8	4754.1	4946.0	5182.8	5407.3	5427.7	5540.0
10°	3915.2	3960.1	4023.3	4147.9	4335.7	4550.0	4811.3	5150.1	5501.2	5529.8	5723.7
12.5°	3547.7	3568.1	3645.7	3813.1	4045.8	4347.9	4709.2	5131.7	5605.3	5640.0	5919.7
15°	3266.0	3292.6	3359.9	3511.0	3770.2	4158.1	4625.5	5125.6	5707.4	5756.4	6115.6
17.5°	3213.0	3229.3	3257.9	3359.9	3586.5	4007.0	4550.0	5123.6	5805.4	5864.6	6297.3
20°	3431.4	3417.1	3388.5	3378.3	3502.8	3890.7	4494.9	5139.9	5899.3	5966.6	6489.2
22.5°	3978.4	3996.8	3829.4	3631.4	3590.6	3872.3	4486.7	5217.5	6048.3	6127.9	6703.5
25°	5139.9	4999.1	4737.8	4264.2	3907.0	3984.6	4578.6	5401.2	6221.8	6309.6	6897.4
27.5°	6423.9	6381.0	5974.8	5195.0	4529.6	4221.3	4741.9	5542.0	6278.9	6368.8	7007.7
30°	7685.4	7736.4	7271.0	6409.6	5433.9	4660.2	4895.0	5595.1	6330.0	6423.9	7148.5
32.5°	8855.0	8916.3	8508.0	7654.8	6499.4	5419.6	5158.3	5801.3	6544.3	6640.2	7383.3
35°	9775.6	9783.8	9475.6	8795.8	7662.9	6342.2	5727.8	6162.6	6834.2	6946.4	7632.3
37.5°	10620.7	10608.5	10247.2	9661.3	8632.5	7258.8	6444.3	6579.0	7164.9	7281.2	7991.6
40°	11247.4	11255.6	11139.2	10588.1	9536.8	8105.9	7011.8	6968.9	7720.1	7901.8	8514.1
42.5°	11665.9	11741.4	11798.5	11518.9	10673.8	9149.0	7883.4	7803.8	8683.6	8834.6	9253.1
45°	12004.7	12139.4	12425.2	12410.9	11765.9	10428.8	9079.6	8916.3	10049.2	10210.4	10194.1
47.5°	12251.7	12388.5	12862.0	13147.8	12792.6	11669.9	10584.0	10443.1	11680.1	11855.7	11233.1
50°	12378.3	12541.6	13145.8	13699.0	13594.9	12866.1	12298.6	12306.8	13650.0	13819.4	12437.5
52.5°	12082.3	12294.6	13296.8	14293.0	14495.0	14011.3	13905.1	14174.6	15403.4	15548.3	13525.4
55°	11137.2	11404.6	13090.7	14799.2	15538.1	15362.6	15730.0	16140.3	17320.2	17414.1	14642.0
57.5°	10539.1	10822.8	12482.4	15229.9	16791.5	17060.9	17642.7	17942.8	19298.2	19537.0	15923.9
60°	10034.9	10257.4	11982.2	15321.8	18065.2	19138.9	19704.4	20014.6	21739.5	21894.6	17334.5
62.5°	9195.9	9451.1	11137.2	14680.8	18706.2	20802.6	21974.3	21835.5	23627.7	23735.9	18200.0
65°	7846.6	7869.1	9422.5	13070.2	18044.8	21882.4	23568.5	22986.7	24529.9	24603.4	18132.6
67.5°	5856.4	6072.8	7248.5	10273.7	15242.2	20959.7	24084.9	23017.3	23960.4	23756.3	16693.5
70°	3772.3	3937.6	4913.3	7124.0	10990.2	17491.6	22372.3	21439.4	21029.2	20576.0	13664.3
72.5°	1741.2	1953.5	2919.0	4070.3	6517.8	12459.9	18161.2	17418.1	15136.0	14017.4	8685.6
75°	759.4	812.4	1441.1	2147.4	3055.8	6589.2	11974.1	10812.6	6836.2	6244.2	3476.3
77.5°	463.4	498.1	755.3	1151.3	1200.3	2510.8	6450.4	4717.4	2112.7	1863.7	943.1
80°	314.4	353.1	549.1	602.2	410.3	700.2	2420.9	1259.5	426.6	408.3	202.1
82.5°	153.1	193.9	406.2	336.8	177.6	224.5	704.2	269.4	124.5	116.4	71.4
85°	22.5	38.8	228.6	220.5	79.6	53.1	124.5	67.4	42.9	40.8	32.7
87.5°	0.0	0.0	77.6	34.7	8.2	8.2	14.3	14.3	16.3	14.3	16.3
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°	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9	5288.9
2.5°	5329.8	5340.0	5301.2	5246.1	5186.9	5127.7	5044.0	4968.4	4923.5	4950.1	4884.8
5°	5425.7	5417.5	5315.5	5148.1	4925.6	4658.2	4392.8	4166.2	4092.7	3982.5	3970.3
7.5°	5558.4	5535.9	5319.5	4935.8	4433.6	3931.5	3441.6	3117.0	2931.3	2774.1	2778.2
10°	5744.1	5678.8	5272.6	4562.2	3735.5	2978.2	2353.6	1924.9	1739.2	1680.0	1633.0
12.5°	5936.0	5809.5	5142.0	4058.0	2908.8	2035.1	1430.9	1169.6	1055.3	1018.6	1014.5
15°	6107.5	5907.4	4913.3	3451.8	2114.8	1300.3	975.7	890.0	875.7	877.7	875.7
17.5°	6276.9	5985.0	4596.9	2808.8	1437.1	932.9	839.0	818.5	824.7	832.8	830.8
20°	6417.7	6001.3	4192.8	2143.3	1016.6	818.5	787.9	783.8	790.0	796.1	796.1
22.5°	6570.8	6013.6	3713.1	1484.0	830.8	761.4	745.1	745.1	753.2	761.4	763.4
25°	6685.2	5946.2	3139.5	1065.5	732.8	706.3	698.1	700.2	708.3	712.4	710.4
27.5°	6703.5	5756.4	2531.2	816.5	665.5	638.9	630.8	638.9	628.7	634.8	630.8
30°	6719.9	5515.5	1914.7	687.9	604.2	563.4	551.1	538.9	530.7	520.5	518.5
32.5°	6770.9	5231.8	1398.3	618.5	547.1	502.2	473.6	438.9	412.3	404.2	402.1
35°	6793.3	4890.9	1026.8	563.4	496.0	447.0	396.0	347.0	308.2	293.9	304.1
37.5°	6879.1	4560.2	796.1	522.6	451.1	389.9	324.6	263.3	226.6	218.4	222.5
40°	7054.6	4200.9	667.5	487.9	412.3	336.8	257.2	198.0	173.5	165.3	163.3
42.5°	7336.3	3843.7	594.0	455.2	373.6	283.7	202.1	155.1	134.7	128.6	128.6
45°	7679.3	3500.8	543.0	420.5	332.7	228.6	159.2	124.5	112.3	108.2	108.2
47.5°	8130.4	3200.7	500.1	385.8	287.8	181.7	128.6	108.2	100.0	102.1	104.1
50°	8587.6	2978.2	453.2	347.0	236.8	149.0	110.2	95.9	93.9	95.9	95.9
52.5°	8932.6	2847.6	389.9	293.9	185.8	124.5	98.0	89.8	87.8	83.7	83.7
55°	9398.0	2819.0	310.3	238.8	147.0	104.1	87.8	81.7	75.5	71.4	69.4
57.5°	9996.1	2851.7	238.8	185.8	114.3	85.7	77.6	67.4	59.2	51.0	51.0
60°	10367.6	2778.2	185.8	142.9	83.7	69.4	59.2	49.0	38.8	32.7	30.6
62.5°	10249.2	2467.9	147.0	106.1	59.2	51.0	38.8	32.7	22.5	16.3	14.3
65°	9638.9	1992.3	118.4	73.5	42.9	30.6	20.4	20.4	10.2	2.0	0.0
67.5°	8436.6	1475.8	93.9	49.0	24.5	14.3	10.2	6.1	0.0	0.0	0.0
70°	6866.8	1065.5	73.5	30.6	14.3	10.2	4.1	2.0	0.0	0.0	0.0
72.5°	4360.2	610.3	57.2	18.4	10.2	4.1	0.0	0.0	0.0	0.0	0.0
75°	1686.1	238.8	38.8	12.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	477.7	112.3	22.5	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	124.5	49.0	12.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.2	20.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.7	8.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	2.0	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)