

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: P532757

Luminaire Tested: **GALN-SA8A-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15876 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

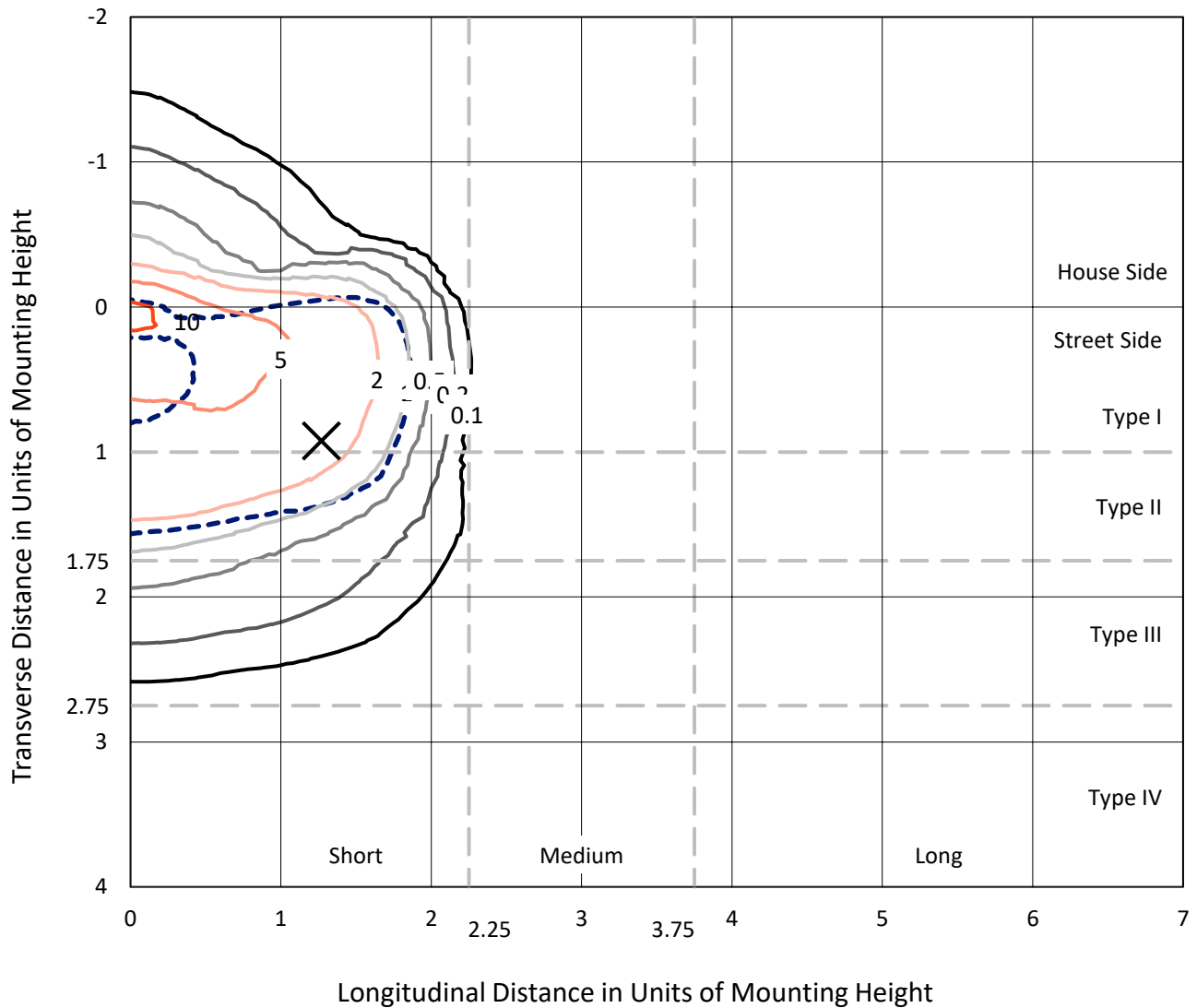
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

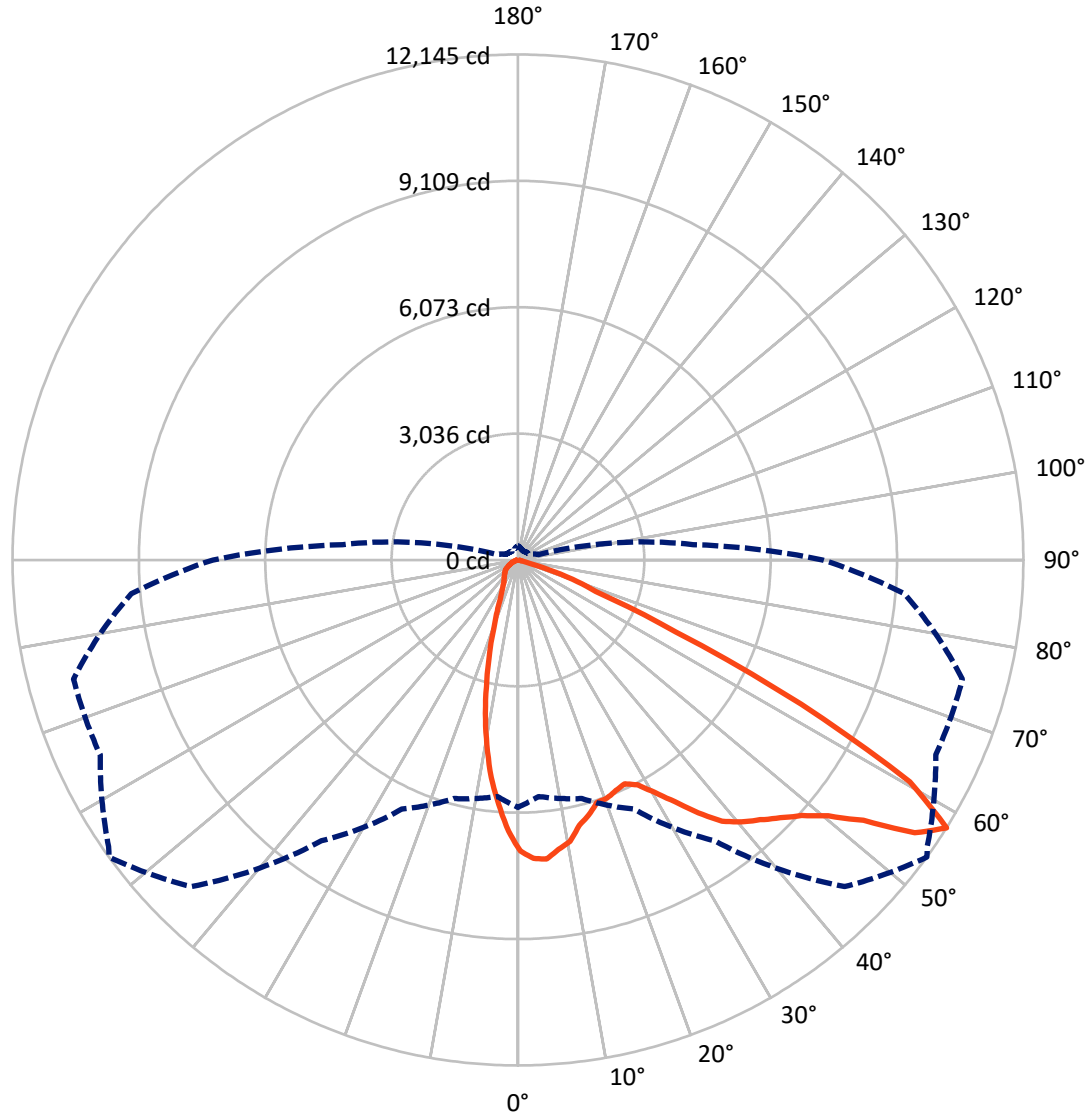
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2243.6	0.0	2243.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	13632.5	0.0	13632.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	15876.0	0.0	15876.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.2	3.7
10°-20°	1249.5	7.9
20°-30°	1655.8	10.4
30°-40°	2406.3	15.2
40°-50°	3568.3	22.5
50°-60°	4462.0	28.1
60°-70°	1760.0	11.1
70°-80°	175.2	1.1
80°-90°	13.6	0.1
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°	15876.0	100.0
0°-180°	15876.0	100.0

**Coefficient of Utilization**



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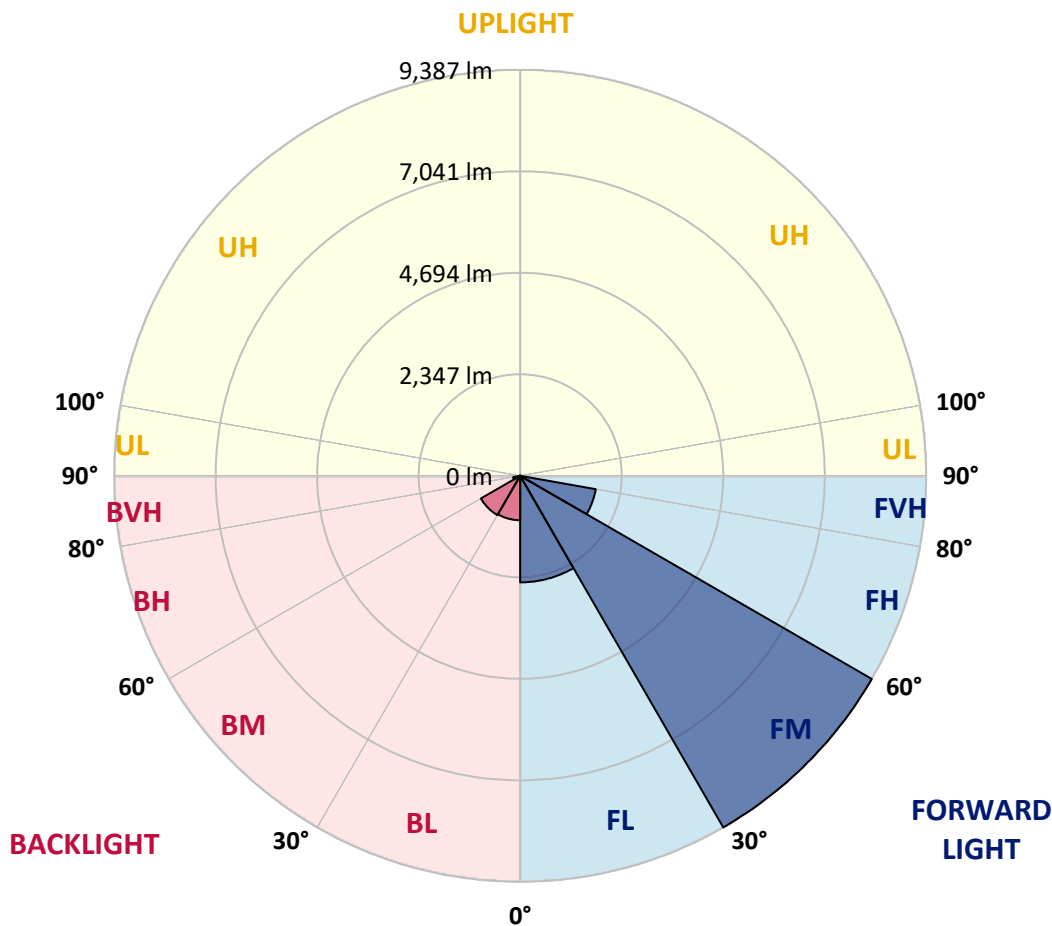
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2464.4	15.5			
FM (30°-60°)	9387.4	59.1			
FH (60°-80°)	1774.4	11.2			G1/1800
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	1026.1	6.5	B3/2500		
BM (30°-60°)	1049.1	6.6	B2/2500		
BH (60°-80°)	160.9	1.0	B1/500		G1/500
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6
2.5°	7401.0	7324.2	7330.1	7303.6	7268.1	7294.7	7179.6	7206.1	7203.2	7046.7	6943.4
5°	7215.0	7297.7	7212.0	7282.9	7215.0	7288.8	7218.0	7164.8	7079.2	6964.1	6772.2
7.5°	6899.1	6819.4	6843.0	6931.6	6946.4	7111.7	7023.1	7091.0	7055.6	6828.3	6565.5
10°	6264.4	6246.7	6364.8	6482.9	6627.5	6804.7	6872.6	6834.2	6807.6	6722.0	6370.7
12.5°	5777.3	5827.5	5824.5	6019.4	6264.4	6364.8	6541.9	6536.0	6683.6	6524.2	6187.7
15°	5313.8	5340.4	5464.4	5585.4	5857.0	6143.4	6361.8	6391.4	6568.5	6456.3	6046.0
17.5°	5030.4	4992.0	5089.5	5234.1	5511.6	5886.5	6128.6	6199.5	6441.5	6417.9	5883.6
20°	4750.0	4750.0	4829.7	5000.9	5254.8	5676.9	6108.0	6087.3	6441.5	6373.6	5709.4
22.5°	4655.5	4702.7	4723.4	4853.3	5154.4	5517.5	6019.4	6057.8	6491.7	6353.0	5632.7
25°	4785.4	4723.4	4729.3	4832.6	5116.0	5440.8	5954.4	6040.1	6583.2	6456.3	5570.7
27.5°	4806.1	4868.1	4885.8	4956.6	5145.6	5464.4	6116.8	6291.0	6810.6	6698.4	5588.4
30°	4986.1	5048.1	5045.2	5166.2	5296.1	5656.3	6479.9	6515.3	7279.9	7002.4	5697.6
32.5°	5204.6	5269.5	5290.2	5431.9	5535.2	6007.6	6922.7	7014.3	7731.6	7480.7	5984.0
35°	5476.2	5452.6	5547.0	5688.8	5910.2	6521.3	7463.0	7616.5	8218.7	8100.6	6279.2
37.5°	5815.7	5786.2	5877.7	6108.0	6409.1	7129.4	7961.9	8062.3	8573.0	8676.3	6825.3
40°	6054.8	6066.6	6344.1	6654.1	6972.9	7708.0	8277.8	8375.2	8821.0	9213.6	7238.6
42.5°	6453.4	6527.2	6860.7	7238.6	7572.2	8142.0	8534.6	8629.1	8936.1	9644.6	7796.6
45°	7032.0	6999.5	7368.5	7790.7	8159.7	8593.6	8838.7	8806.2	9004.0	10072.7	8147.9
47.5°	7775.9	7781.8	8026.8	8387.0	8770.8	8986.3	9178.2	9063.0	9145.7	10524.3	8617.3
50°	8283.7	8328.0	8525.7	8894.8	9086.7	9417.3	9662.3	9591.5	9564.9	10795.9	8912.5
52.5°	8413.6	8546.4	8652.7	9113.2	9561.9	10084.5	10397.4	10548.0	10075.6	10887.4	9287.4
55°	7433.5	7551.5	7926.5	8558.2	9742.0	11141.3	11572.3	11575.3	10742.8	11294.8	9550.1
57.5°	5942.6	5703.5	5933.8	6603.9	8236.4	11097.0	12145.1	12006.3	11076.4	11055.7	9322.8
60°	4109.4	4050.3	4065.1	4330.8	5700.6	8826.9	10822.5	11002.6	10199.6	9582.6	7380.3
62.5°	3256.2	3206.0	3141.1	3111.5	3539.6	5499.8	7634.2	7888.1	7132.3	6214.2	4375.1
65°	2550.6	2521.1	2530.0	2648.1	2645.1	3120.4	4174.3	4071.0	3259.1	2408.9	1375.7
67.5°	1721.1	1765.4	1800.8	2158.0	2341.0	2172.8	2016.3	1957.3	1059.8	445.8	304.1
70°	968.3	974.2	1012.6	1349.1	1777.2	1685.7	1390.5	1390.5	528.4	162.4	174.2
72.5°	528.4	510.7	475.3	581.6	791.2	803.0	619.9	540.2	156.5	106.3	97.4
75°	256.8	253.9	218.5	180.1	171.2	141.7	109.2	100.4	70.9	67.9	59.0
77.5°	53.1	50.2	26.6	26.6	29.5	32.5	41.3	41.3	50.2	50.2	41.3
80°	0.0	0.0	3.0	11.8	20.7	29.5	35.4	35.4	41.3	41.3	32.5
82.5°	0.0	0.0	3.0	8.9	17.7	26.6	32.5	35.4	41.3	44.3	35.4
85°	0.0	0.0	0.0	5.9	14.8	20.7	17.7	17.7	14.8	11.8	5.9
87.5°	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6
2.5°	6890.3	6884.4	6748.6	6671.8	6533.1	6412.0	6314.6	6243.8	6243.8	6199.5	6158.1
5°	6695.4	6645.2	6355.9	6169.9	5907.2	5712.4	5579.5	5476.2	5313.8	5358.1	5183.9
7.5°	6453.4	6326.4	5942.6	5659.2	5296.1	5018.6	4735.2	4484.3	4242.2	4133.0	4192.0
10°	6193.6	5972.2	5455.5	5006.8	4555.1	4047.4	3716.7	3315.2	3067.3	3052.5	2987.6
12.5°	5919.0	5668.1	5039.3	4419.3	3826.0	3214.9	2710.1	2335.1	2166.9	1980.9	2016.3
15°	5712.4	5340.4	4575.8	3828.9	3040.7	2423.7	1915.9	1626.6	1467.2	1422.9	1408.2
17.5°	5488.0	5089.5	4103.5	3200.1	2385.3	1744.7	1378.6	1239.9	1177.9	1177.9	1169.0
20°	5254.8	4806.1	3634.1	2615.6	1789.0	1301.9	1104.1	1059.8	1056.9	1053.9	1053.9
22.5°	5101.3	4481.3	3209.0	2078.3	1349.1	1042.1	959.4	941.7	953.5	989.0	989.0
25°	4938.9	4168.4	2739.6	1603.0	1045.1	894.5	847.3	859.1	888.6	921.1	909.3
27.5°	4773.6	3964.7	2296.8	1257.6	856.1	782.3	764.6	791.2	823.6	853.2	844.3
30°	4735.2	3746.3	1877.6	953.5	735.1	681.9	693.8	717.4	749.8	761.6	773.5
32.5°	4794.3	3575.0	1538.1	782.3	640.6	625.9	625.9	637.7	658.3	684.9	676.0
35°	4962.5	3477.6	1216.3	679.0	587.5	572.7	569.8	581.6	593.4	602.2	593.4
37.5°	5219.4	3400.9	994.9	602.2	552.0	528.4	522.5	519.6	531.4	534.3	540.2
40°	5547.0	3442.2	844.3	555.0	516.6	490.1	472.3	472.3	472.3	481.2	484.1
42.5°	5901.3	3498.3	729.2	528.4	484.1	451.7	434.0	428.1	434.0	445.8	442.8
45°	6273.3	3607.5	655.4	487.1	454.6	413.3	389.7	383.8	398.5	422.2	419.2
47.5°	6621.6	3764.0	599.3	460.5	425.1	386.7	357.2	351.3	377.9	410.3	413.3
50°	6970.0	4035.6	578.6	439.9	404.4	360.2	333.6	327.7	357.2	398.5	407.4
52.5°	7371.5	4327.8	563.9	413.3	380.8	339.5	310.0	304.1	336.5	389.7	392.6
55°	7634.2	4575.8	552.0	366.1	336.5	307.0	283.4	280.5	315.9	363.1	374.9
57.5°	7327.2	4230.4	510.7	318.8	286.4	271.6	250.9	250.9	280.5	324.7	333.6
60°	5555.9	2783.9	363.1	256.8	242.1	233.2	224.4	224.4	248.0	280.5	283.4
62.5°	3253.2	1499.7	233.2	206.6	206.6	197.8	183.0	183.0	206.6	224.4	227.3
65°	965.3	481.2	188.9	177.1	174.2	159.4	144.7	141.7	159.4	168.3	165.3
67.5°	277.5	221.4	156.5	147.6	144.7	121.0	112.2	109.2	112.2	106.3	103.3
70°	165.3	150.6	121.0	124.0	109.2	88.6	79.7	76.8	70.9	62.0	56.1
72.5°	91.5	91.5	88.6	94.5	76.8	59.0	50.2	41.3	32.5	26.6	23.6
75°	56.1	59.0	62.0	64.9	50.2	38.4	32.5	20.7	11.8	5.9	5.9
77.5°	38.4	41.3	44.3	47.2	41.3	35.4	26.6	14.8	3.0	0.0	0.0
80°	29.5	32.5	38.4	41.3	44.3	47.2	35.4	14.8	3.0	0.0	0.0
82.5°	32.5	35.4	44.3	41.3	41.3	41.3	32.5	14.8	3.0	0.0	0.0
85°	5.9	8.9	14.8	14.8	20.7	26.6	20.7	5.9	0.0	0.0	0.0
87.5°	0.0	0.0	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)