

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: P530885

Luminaire Tested: **GALN-SA6A-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530885  
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-SA6A-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 11658 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

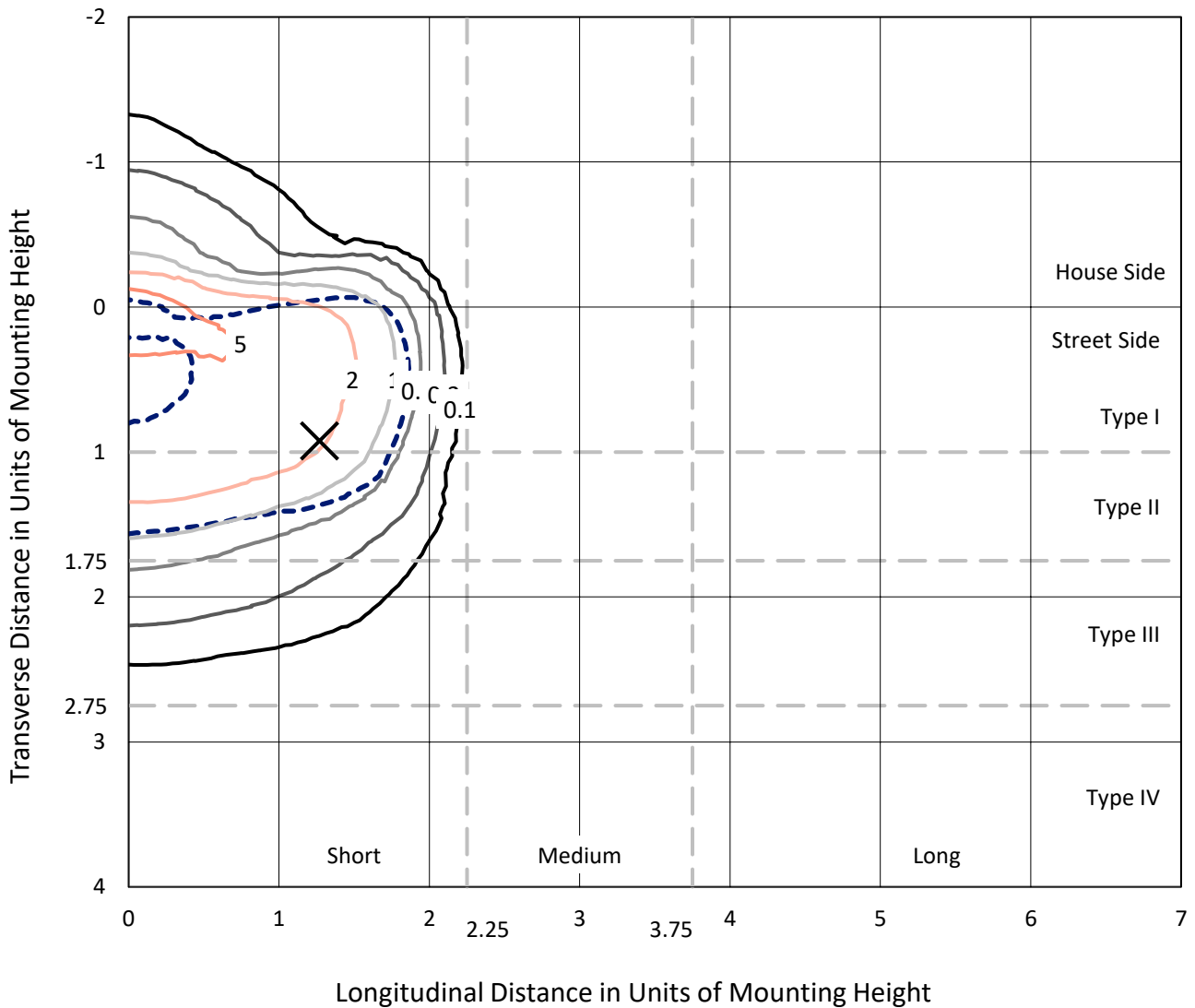
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

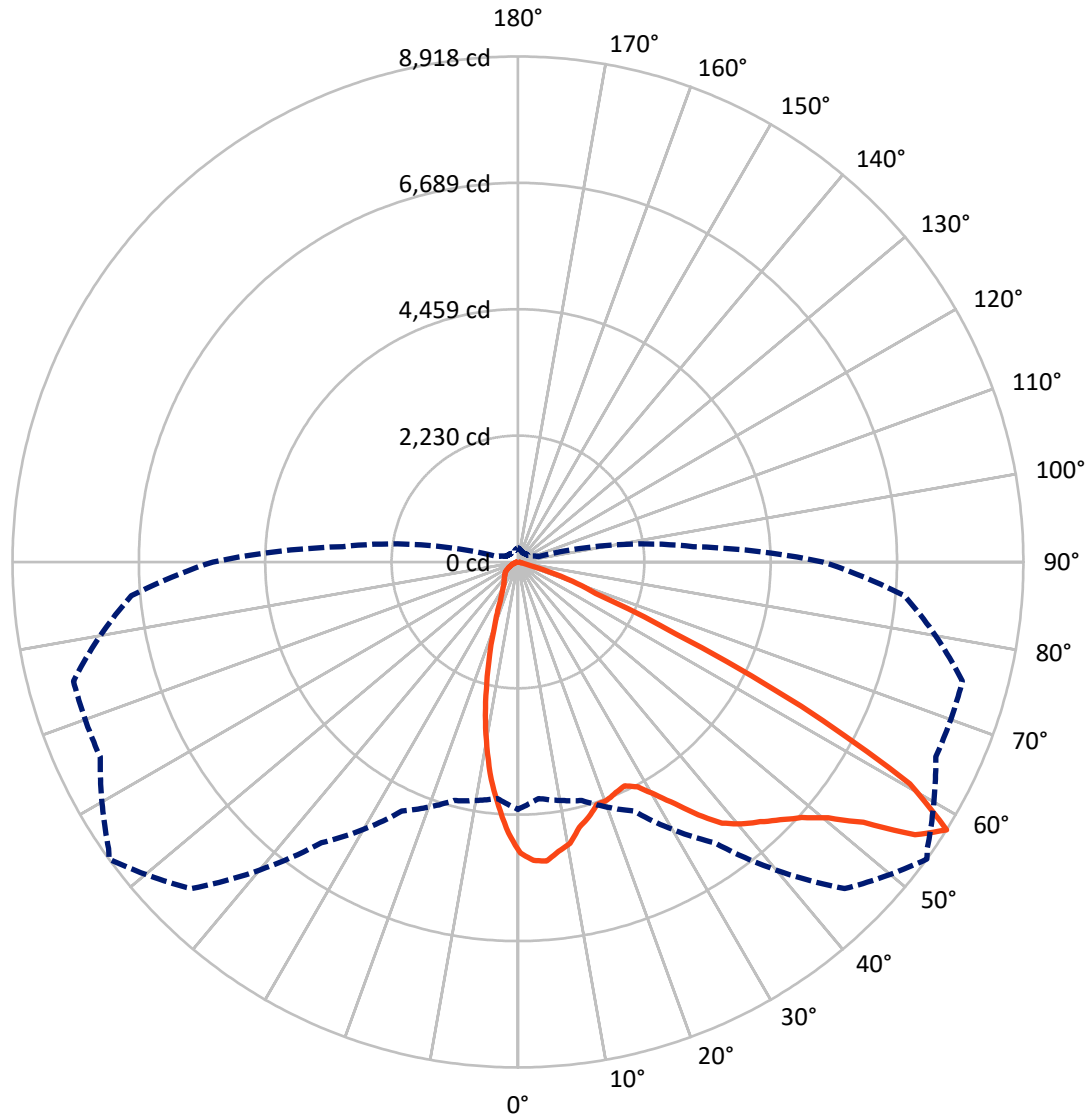
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type 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	1647.5	0.0	1647.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	10010.5	0.0	10010.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	11658.0	0.0	11658.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.8	3.7
10°-20°	917.5	7.9
20°-30°	1215.9	10.4
30°-40°	1767.0	15.2
40°-50°	2620.2	22.5
50°-60°	3276.5	28.1
60°-70°	1292.4	11.1
70°-80°	128.7	1.1
80°-90°	10.0	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°	11658.0	100.0
0°-180°	11658.0	100.0

**Coefficient of Utilization**



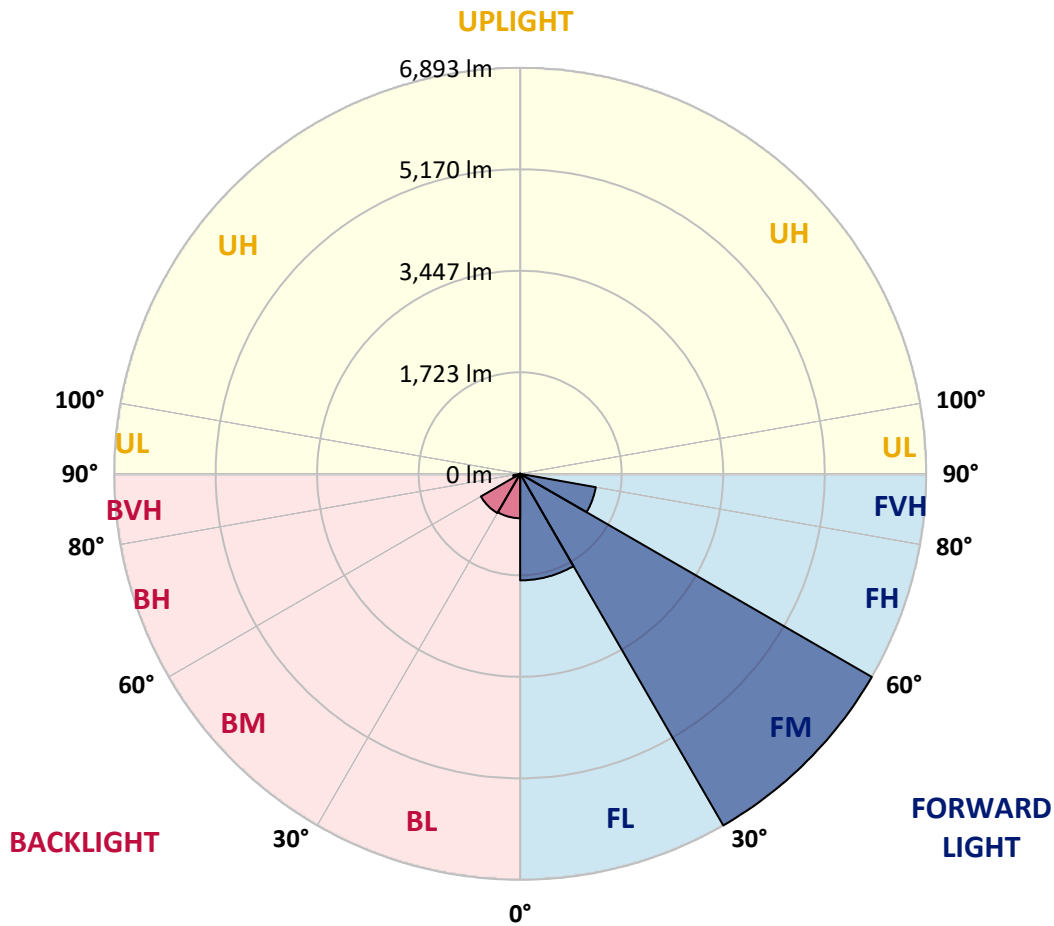
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1809.7	15.5			
FM (30°-60°)	6893.4	59.1			
FH (60°-80°)	1303.0	11.2			G1/1800
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	753.5	6.5	B2/1000		
BM (30°-60°)	770.4	6.6	B1/1000		
BH (60°-80°)	118.1	1.0	B1/500		G1/500
BVH (80°-90°)	5.5	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5
2.5°	5434.7	5378.3	5382.6	5363.1	5337.1	5356.6	5272.1	5291.6	5289.4	5174.5	5098.7
5°	5298.1	5358.8	5295.9	5347.9	5298.1	5352.3	5300.3	5261.2	5198.4	5113.8	4972.9
7.5°	5066.1	5007.6	5024.9	5090.0	5100.8	5222.2	5157.2	5207.0	5181.0	5014.1	4821.2
10°	4600.1	4587.1	4673.8	4760.5	4866.7	4996.8	5046.6	5018.4	4998.9	4936.1	4678.1
12.5°	4242.4	4279.2	4277.1	4420.1	4600.1	4673.8	4803.8	4799.5	4907.9	4790.8	4543.7
15°	3902.0	3921.5	4012.6	4101.5	4300.9	4511.2	4671.6	4693.3	4823.3	4741.0	4439.6
17.5°	3693.9	3665.7	3737.3	3843.5	4047.3	4322.6	4500.3	4552.4	4730.1	4712.8	4320.4
20°	3488.0	3488.0	3546.5	3672.2	3858.7	4168.7	4485.2	4470.0	4730.1	4680.3	4192.5
22.5°	3418.6	3453.3	3468.5	3563.9	3785.0	4051.6	4420.1	4448.3	4767.0	4665.1	4136.2
25°	3514.0	3468.5	3472.8	3548.7	3756.8	3995.2	4372.4	4435.3	4834.2	4741.0	4090.6
27.5°	3529.2	3574.7	3587.7	3639.7	3778.5	4012.6	4491.7	4619.6	5001.1	4918.7	4103.6
30°	3661.4	3706.9	3704.8	3793.6	3889.0	4153.5	4758.3	4784.3	5345.8	5142.0	4183.8
32.5°	3821.8	3869.5	3884.7	3988.7	4064.6	4411.5	5083.5	5150.7	5677.5	5493.2	4394.1
35°	4021.3	4003.9	4073.3	4177.3	4339.9	4788.7	5480.2	5592.9	6035.1	5948.4	4610.9
37.5°	4270.6	4248.9	4316.1	4485.2	4706.3	5235.2	5846.5	5920.2	6295.3	6371.1	5011.9
40°	4446.1	4454.8	4658.6	4886.2	5120.3	5660.1	6078.5	6150.0	6477.4	6765.7	5315.4
42.5°	4738.8	4793.0	5038.0	5315.4	5560.4	5978.8	6267.1	6336.5	6561.9	7082.2	5725.1
45°	5163.7	5139.8	5410.8	5720.8	5991.8	6310.5	6490.4	6466.5	6611.8	7396.5	5983.1
47.5°	5710.0	5714.3	5894.2	6158.7	6440.5	6598.8	6739.7	6655.1	6715.8	7728.2	6327.8
50°	6082.8	6115.3	6260.6	6531.6	6672.5	6915.3	7095.2	7043.2	7023.7	7927.6	6544.6
52.5°	6178.2	6275.8	6353.8	6692.0	7021.5	7405.2	7635.0	7745.5	7398.7	7994.8	6819.9
55°	5458.5	5545.2	5820.5	6284.4	7153.7	8181.3	8497.8	8499.9	7888.6	8294.0	7012.8
57.5°	4363.8	4188.2	4357.3	4849.4	6048.1	8148.7	8918.3	8816.4	8133.6	8118.4	6845.9
60°	3017.6	2974.2	2985.1	3180.2	4186.0	6481.7	7947.1	8079.4	7489.7	7036.7	5419.5
62.5°	2391.1	2354.2	2306.5	2284.9	2599.2	4038.6	5605.9	5792.3	5237.4	4563.2	3212.7
65°	1873.0	1851.3	1857.8	1944.5	1942.3	2291.4	3065.3	2989.4	2393.2	1768.9	1010.2
67.5°	1263.8	1296.3	1322.4	1584.7	1719.1	1595.5	1480.6	1437.2	778.2	327.3	223.3
70°	711.0	715.4	743.6	990.7	1305.0	1237.8	1021.0	1021.0	388.0	119.2	127.9
72.5°	388.0	375.0	349.0	427.1	581.0	589.6	455.2	396.7	114.9	78.0	71.5
75°	188.6	186.4	160.4	132.2	125.7	104.1	80.2	73.7	52.0	49.9	43.4
77.5°	39.0	36.9	19.5	19.5	21.7	23.8	30.3	30.3	36.9	36.9	30.3
80°	0.0	0.0	2.2	8.7	15.2	21.7	26.0	26.0	30.3	30.3	23.8
82.5°	0.0	0.0	2.2	6.5	13.0	19.5	23.8	26.0	30.3	32.5	26.0
85°	0.0	0.0	0.0	4.3	10.8	15.2	13.0	13.0	10.8	8.7	4.3
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°	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5
2.5°	5059.6	5055.3	4955.6	4899.2	4797.3	4708.5	4636.9	4584.9	4584.9	4552.4	4522.0
5°	4916.6	4879.7	4667.3	4530.7	4337.8	4194.7	4097.1	4021.3	3902.0	3934.5	3806.6
7.5°	4738.8	4645.6	4363.8	4155.7	3889.0	3685.3	3477.1	3292.9	3115.1	3034.9	3078.3
10°	4548.0	4385.4	4006.1	3676.6	3344.9	2972.0	2729.3	2434.4	2252.3	2241.5	2193.8
12.5°	4346.4	4162.2	3700.4	3245.2	2809.5	2360.7	1990.0	1714.7	1591.2	1454.6	1480.6
15°	4194.7	3921.5	3360.1	2811.6	2232.8	1779.8	1406.9	1194.5	1077.4	1044.9	1034.0
17.5°	4029.9	3737.3	3013.2	2349.9	1751.6	1281.2	1012.4	910.5	865.0	865.0	858.4
20°	3858.7	3529.2	2668.6	1920.7	1313.7	956.0	810.8	778.2	776.1	773.9	773.9
22.5°	3745.9	3290.7	2356.4	1526.1	990.7	765.2	704.5	691.5	700.2	726.2	726.2
25°	3626.7	3060.9	2011.7	1177.1	767.4	656.8	622.2	630.8	652.5	676.4	667.7
27.5°	3505.3	2911.3	1686.5	923.5	628.7	574.5	561.5	581.0	604.8	626.5	620.0
30°	3477.1	2750.9	1378.7	700.2	539.8	500.8	509.4	526.8	550.6	559.3	568.0
32.5°	3520.5	2625.2	1129.4	574.5	470.4	459.6	459.6	468.2	483.4	502.9	496.4
35°	3644.1	2553.7	893.1	498.6	431.4	420.6	418.4	427.1	435.7	442.2	435.7
37.5°	3832.7	2497.3	730.5	442.2	405.4	388.0	383.7	381.5	390.2	392.4	396.7
40°	4073.3	2527.6	620.0	407.5	379.4	359.9	346.8	346.8	346.8	353.4	355.5
42.5°	4333.4	2568.8	535.4	388.0	355.5	331.7	318.7	314.3	318.7	327.3	325.2
45°	4606.6	2649.0	481.3	357.7	333.8	303.5	286.1	281.8	292.7	310.0	307.8
47.5°	4862.4	2763.9	440.1	338.2	312.2	284.0	262.3	258.0	277.5	301.3	303.5
50°	5118.2	2963.4	424.9	323.0	297.0	264.5	245.0	240.6	262.3	292.7	299.2
52.5°	5413.0	3178.0	414.0	303.5	279.6	249.3	227.6	223.3	247.1	286.1	288.3
55°	5605.9	3360.1	405.4	268.8	247.1	225.5	208.1	205.9	232.0	266.6	275.3
57.5°	5380.5	3106.4	375.0	234.1	210.3	199.4	184.3	184.3	205.9	238.5	245.0
60°	4079.8	2044.2	266.6	188.6	177.8	171.3	164.8	164.8	182.1	205.9	208.1
62.5°	2388.9	1101.2	171.3	151.7	151.7	145.2	134.4	134.4	151.7	164.8	166.9
65°	708.9	353.4	138.7	130.1	127.9	117.1	106.2	104.1	117.1	123.6	121.4
67.5°	203.8	162.6	114.9	108.4	106.2	88.9	82.4	80.2	82.4	78.0	75.9
70°	121.4	110.6	88.9	91.0	80.2	65.0	58.5	56.4	52.0	45.5	41.2
72.5°	67.2	67.2	65.0	69.4	56.4	43.4	36.9	30.3	23.8	19.5	17.3
75°	41.2	43.4	45.5	47.7	36.9	28.2	23.8	15.2	8.7	4.3	4.3
77.5°	28.2	30.3	32.5	34.7	30.3	26.0	19.5	10.8	2.2	0.0	0.0
80°	21.7	23.8	28.2	30.3	32.5	34.7	26.0	10.8	2.2	0.0	0.0
82.5°	23.8	26.0	32.5	30.3	30.3	30.3	23.8	10.8	2.2	0.0	0.0
85°	4.3	6.5	10.8	10.8	15.2	19.5	15.2	4.3	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)