

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: P531013

Luminaire Tested: **GALN-SA6B-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18347 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

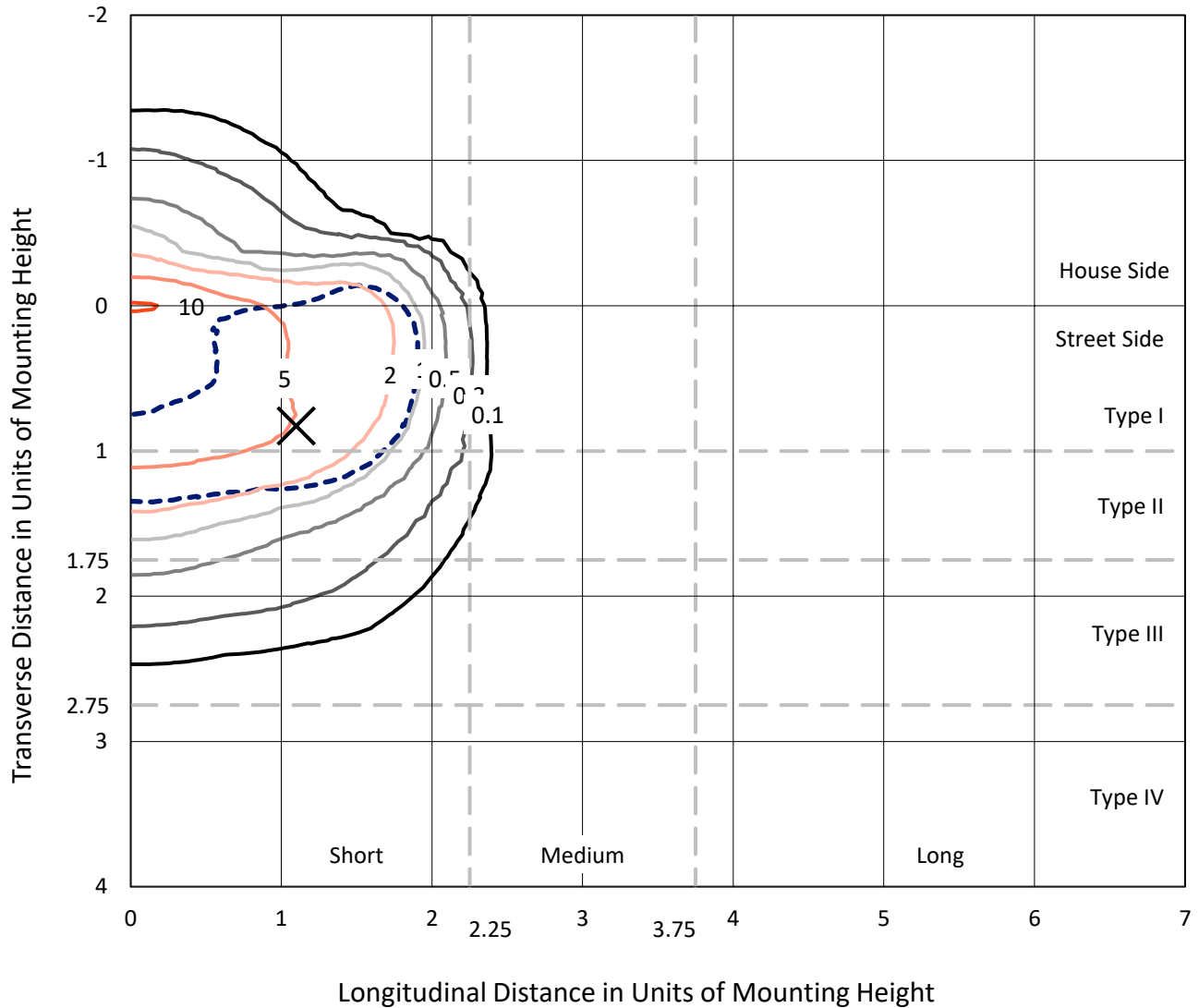
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

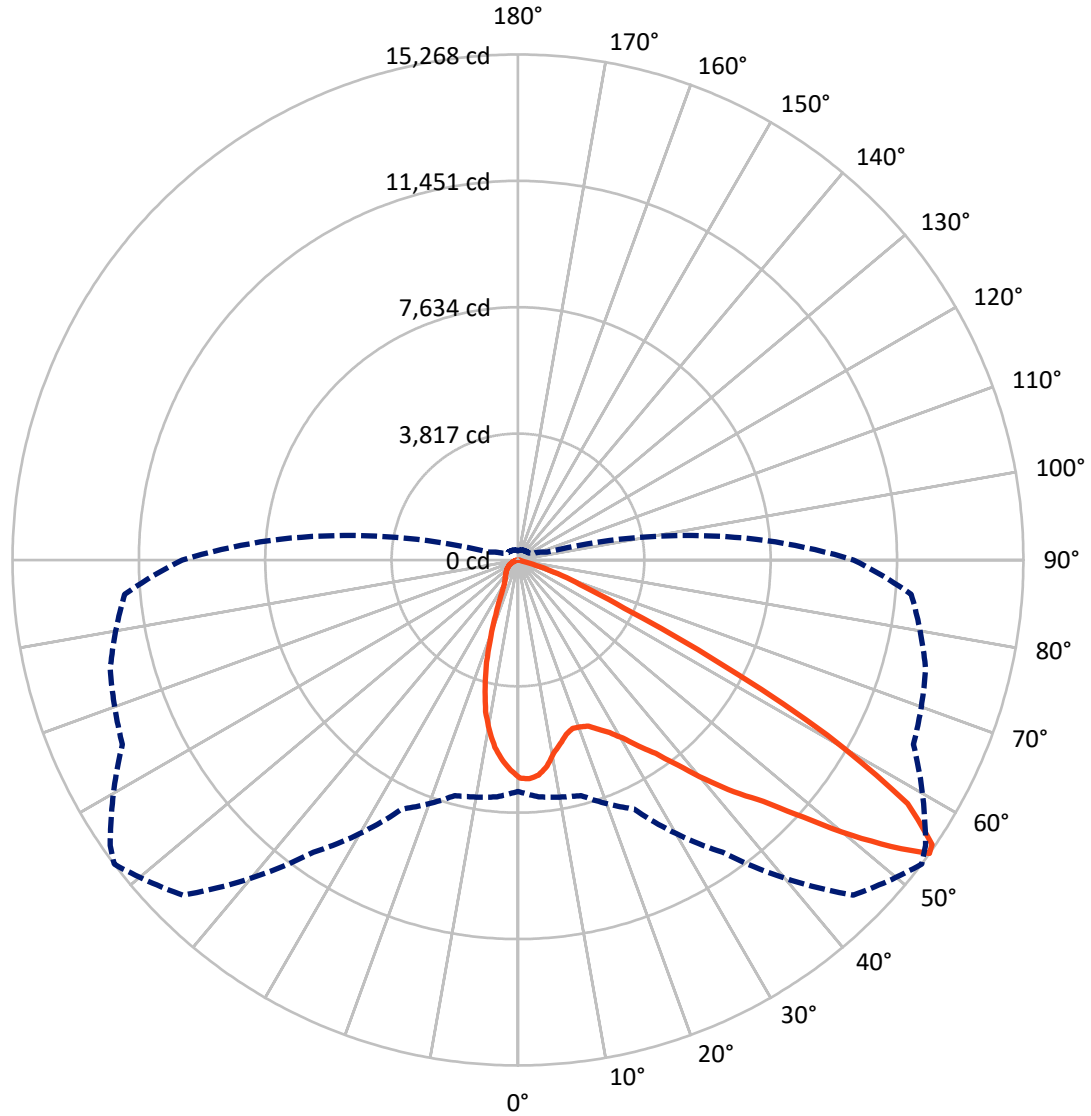
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3035.6	0.0	3035.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	15311.4	0.0	15311.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	18347.0	0.0	18347.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.4	3.1
10°-20°	1296.3	7.1
20°-30°	1842.3	10.0
30°-40°	2843.2	15.5
40°-50°	4457.8	24.3
50°-60°	5178.4	28.2
60°-70°	1956.7	10.7
70°-80°	186.1	1.0
80°-90°	20.9	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°	18347.0	100.0
0°-180°	18347.0	100.0

**Coefficient of Utilization**



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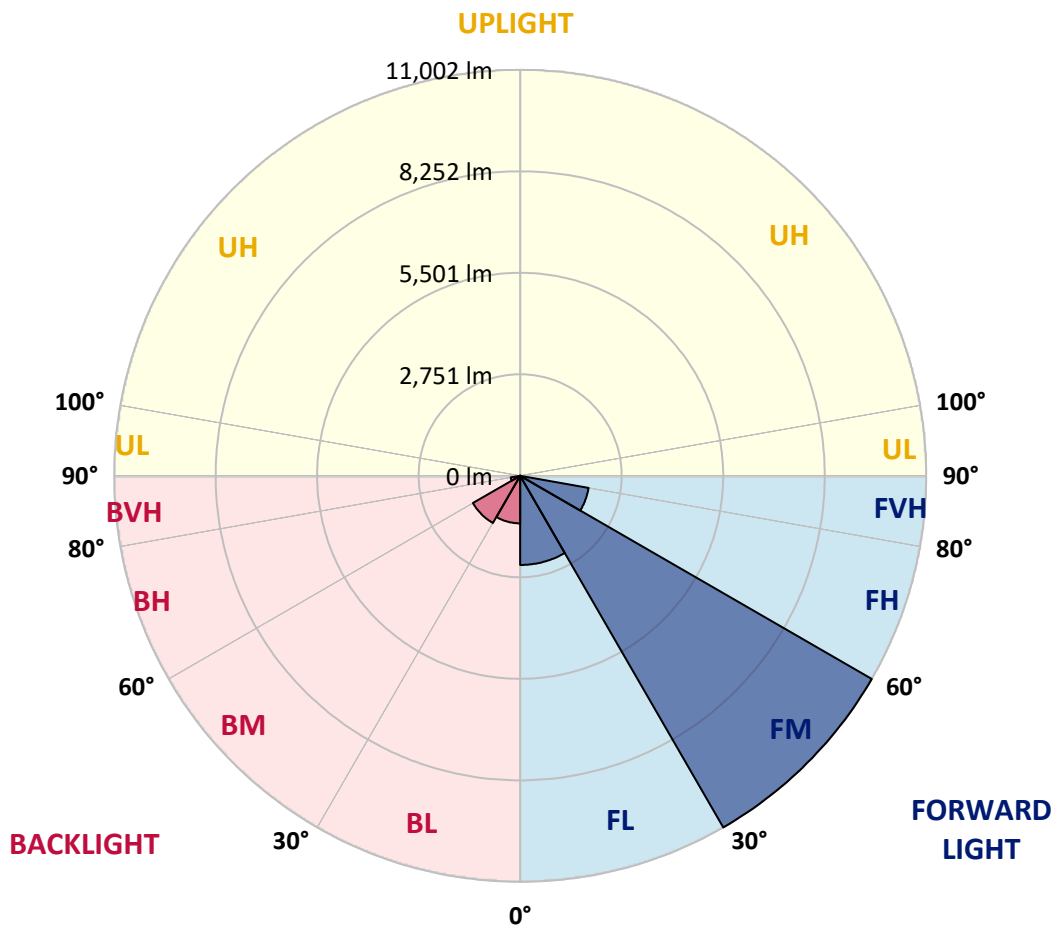
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2415.8	13.2			
FM (30°-60°)	11002.1	60.0			
FH (60°-80°)	1882.7	10.3			G2/5000
FVH (80°-90°)	10.8	0.1			G1/100
BL (0°-30°)	1288.2	7.0	B3/2500		
BM (30°-60°)	1477.2	8.1	B2/2500		
BH (60°-80°)	260.1	1.4	B1/500		G1/500
BVH (80°-90°)	10.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9
2.5°	6555.8	6497.6	6555.8	6562.6	6603.6	6641.2	6617.3	6672.0	6641.2	6607.0	6596.8
5°	6026.0	6104.6	6108.0	6231.0	6203.7	6429.3	6528.4	6501.1	6668.5	6658.3	6634.4
7.5°	5550.9	5520.1	5561.1	5704.7	5885.8	6145.6	6289.1	6285.7	6525.0	6695.9	6678.8
10°	5109.9	5106.5	5192.0	5304.8	5458.6	5732.0	5930.3	6029.4	6401.9	6661.7	6699.3
12.5°	4812.6	4798.9	4891.2	4983.5	5226.1	5438.1	5691.0	5738.8	6166.1	6542.1	6603.6
15°	4617.7	4648.5	4655.3	4833.1	4986.9	5267.2	5465.4	5564.5	6056.7	6446.4	6682.2
17.5°	4583.6	4624.6	4628.0	4775.0	4939.0	5174.9	5349.2	5482.5	5964.4	6494.2	6685.6
20°	4651.9	4628.0	4648.5	4740.8	4901.4	5127.0	5380.0	5424.4	5933.7	6518.2	6723.2
22.5°	4846.7	4839.9	4788.6	4863.8	4976.6	5212.5	5451.7	5520.1	6022.5	6641.2	6754.0
25°	5062.1	5099.7	5051.8	5041.6	5120.2	5352.6	5670.5	5759.4	6319.9	6863.4	6849.7
27.5°	5465.4	5427.8	5427.8	5380.0	5359.4	5472.2	5906.3	6053.3	6651.5	7150.5	6959.1
30°	5851.6	5892.7	5861.9	5879.0	5742.3	5732.0	6241.3	6422.5	7239.4	7588.0	7191.5
32.5°	6463.5	6408.8	6460.0	6415.6	6234.5	6049.9	6695.9	6883.9	7950.3	8090.4	7540.1
35°	6972.8	6948.8	7167.6	7160.7	6866.8	6685.6	7177.8	7458.1	8445.9	8692.0	7950.3
37.5°	7697.4	7652.9	7902.5	8022.1	7758.9	7488.9	7868.3	8193.0	8907.3	9174.0	8370.7
40°	8442.5	8555.3	8890.3	9088.5	8808.2	8449.3	8712.5	8811.6	9215.0	9488.4	8657.8
42.5°	9385.9	9549.9	9891.7	10062.6	10038.7	9649.1	9570.4	9567.0	9437.1	9399.5	8869.7
45°	10291.6	10230.1	10756.5	11129.1	11429.8	11317.0	10397.6	10295.1	9789.2	9532.8	8924.4
47.5°	10688.1	10667.6	11026.5	11689.6	12715.0	12855.2	11600.7	11204.3	10383.9	10093.4	9221.8
50°	10175.4	10281.4	10636.9	11371.7	12944.0	14013.9	13077.3	12544.1	11077.8	10777.0	9925.9
52.5°	8500.6	8572.4	8910.8	9843.9	12164.7	14697.5	14492.4	14184.8	12352.7	11853.7	11153.0
54°	6989.8	7181.2	7365.8	8302.4	10777.0	14318.1	15268.3	15032.4	13183.3	12749.2	11925.5
55°	6087.5	6200.3	6333.6	7266.7	9816.5	13675.5	15179.4	15199.9	13740.4	13029.5	12445.0
57.5°	4446.8	4525.5	4388.7	4802.3	6740.3	11105.1	13884.0	14437.7	14492.4	13449.9	12762.9
60°	3397.5	3431.7	3277.9	3342.8	4190.5	7622.2	10739.4	11405.9	13073.9	11754.6	10811.2
62.5°	2635.3	2642.1	2638.7	2751.5	2888.2	4484.4	6716.4	7307.7	9013.3	8346.8	7341.9
65°	1941.4	1910.7	1965.4	2307.2	2464.4	2819.9	3537.6	3968.3	4898.0	4135.8	2956.6
67.5°	1257.8	1268.1	1322.8	1715.8	2112.3	2163.6	2177.3	2143.1	2146.5	1182.6	741.7
70°	755.4	772.5	755.4	970.7	1510.8	1551.8	1418.5	1384.3	1080.1	280.3	276.9
72.5°	447.8	423.8	379.4	417.0	628.9	752.0	676.8	673.3	423.8	164.1	164.1
75°	188.0	170.9	140.1	126.5	167.5	160.6	160.6	143.6	112.8	109.4	102.5
77.5°	37.6	37.6	27.3	30.8	41.0	47.9	58.1	58.1	68.4	68.4	64.9
80°	0.0	3.4	10.3	20.5	30.8	44.4	51.3	51.3	58.1	58.1	47.9
82.5°	0.0	3.4	10.3	20.5	27.3	41.0	51.3	51.3	58.1	61.5	51.3
85°	0.0	3.4	10.3	17.1	27.3	34.2	34.2	30.8	23.9	20.5	13.7
87.5°	0.0	0.0	3.4	6.8	3.4	6.8	6.8	6.8	6.8	6.8	6.8
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°	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9
2.5°	6620.7	6617.3	6535.2	6401.9	6371.2	6258.4	6244.7	6176.4	6214.0	6087.5	6073.8
5°	6566.0	6525.0	6425.9	6340.4	6090.9	5913.2	5773.0	5602.1	5503.0	5520.1	5455.2
7.5°	6644.6	6538.7	6364.3	6067.0	5762.8	5451.7	5284.3	4935.6	4809.1	4621.2	4593.8
10°	6562.6	6484.0	6214.0	5721.8	5301.3	4853.6	4460.5	4074.3	3780.3	3653.9	3626.5
12.5°	6555.8	6419.0	5967.9	5421.0	4812.6	4170.0	3599.2	3117.2	2826.7	2662.6	2625.0
15°	6449.8	6285.7	5691.0	4956.1	4115.3	3315.5	2693.4	2228.5	2006.4	1910.7	1938.0
17.5°	6460.0	6214.0	5414.1	4463.9	3428.3	2433.6	1838.9	1599.6	1541.5	1565.5	1565.5
20°	6449.8	6053.3	5079.2	3896.5	2625.0	1688.5	1350.1	1264.7	1302.3	1377.5	1360.4
22.5°	6395.1	5978.1	4771.5	3298.4	1931.2	1251.0	1083.5	1086.9	1145.0	1237.3	1257.8
25°	6436.1	5810.6	4381.9	2693.4	1408.2	998.1	940.0	963.9	1025.4	1093.8	1107.4
27.5°	6405.4	5691.0	3975.2	2091.8	1028.8	857.9	854.5	881.8	909.2	960.5	960.5
30°	6439.5	5581.6	3575.2	1555.2	847.7	786.1	772.5	793.0	820.3	830.6	827.2
32.5°	6566.0	5499.6	3113.8	1162.1	748.5	717.8	717.8	717.8	714.4	728.0	731.5
35°	6842.9	5513.3	2707.1	898.9	683.6	659.7	649.4	635.8	628.9	635.8	639.2
37.5°	7143.7	5506.4	2286.7	765.6	635.8	615.2	591.3	570.8	567.4	574.2	564.0
40°	7277.0	5571.4	1897.0	687.0	591.3	567.4	529.8	512.7	516.1	523.0	516.1
42.5°	7458.1	5591.9	1644.1	625.5	550.3	512.7	488.8	468.3	464.9	475.1	471.7
45°	7454.7	5475.7	1377.5	591.3	512.7	471.7	440.9	423.8	423.8	430.7	434.1
47.5°	7673.4	5458.6	1182.6	560.6	485.4	444.3	406.7	393.1	389.7	389.7	382.8
50°	8182.7	5697.8	1032.2	526.4	451.2	413.6	382.8	365.7	352.1	345.2	341.8
52.5°	9177.4	6443.0	916.0	485.4	413.6	382.8	355.5	341.8	324.7	307.6	304.2
54°	10141.3	7212.0	909.2	451.2	382.8	362.3	338.4	331.5	311.0	287.1	280.3
55°	10575.3	7659.8	933.1	423.8	362.3	348.6	328.1	321.3	300.8	273.4	270.0
57.5°	10934.2	7834.1	919.4	352.1	328.1	324.7	307.6	297.4	273.4	235.8	229.0
60°	8801.4	5923.4	659.7	311.0	300.8	293.9	280.3	273.4	242.7	201.7	198.2
62.5°	5561.1	3407.8	420.4	273.4	263.2	252.9	235.8	229.0	201.7	160.6	150.4
65°	2368.7	1411.6	283.7	242.7	225.6	208.5	194.8	184.6	160.6	119.6	116.2
67.5°	615.2	502.4	235.8	211.9	188.0	164.1	153.8	136.7	109.4	82.0	78.6
70°	276.9	252.9	198.2	177.7	150.4	126.5	112.8	95.7	71.8	54.7	51.3
72.5°	164.1	160.6	150.4	133.3	112.8	95.7	82.0	64.9	47.9	30.8	30.8
75°	102.5	99.1	102.5	92.3	78.6	71.8	61.5	44.4	27.3	13.7	13.7
77.5°	61.5	61.5	61.5	58.1	54.7	54.7	44.4	27.3	13.7	3.4	3.4
80°	47.9	47.9	51.3	47.9	47.9	47.9	37.6	20.5	6.8	0.0	0.0
82.5°	47.9	51.3	58.1	54.7	47.9	41.0	34.2	20.5	6.8	0.0	0.0
85°	13.7	10.3	17.1	23.9	34.2	30.8	23.9	17.1	6.8	0.0	0.0
87.5°	6.8	6.8	6.8	6.8	3.4	3.4	3.4	3.4	3.4	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)