

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: P531275

Luminaire Tested: **GALN-SA6C-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531275  
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-SA6C-740-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1050mA 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: 24380 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

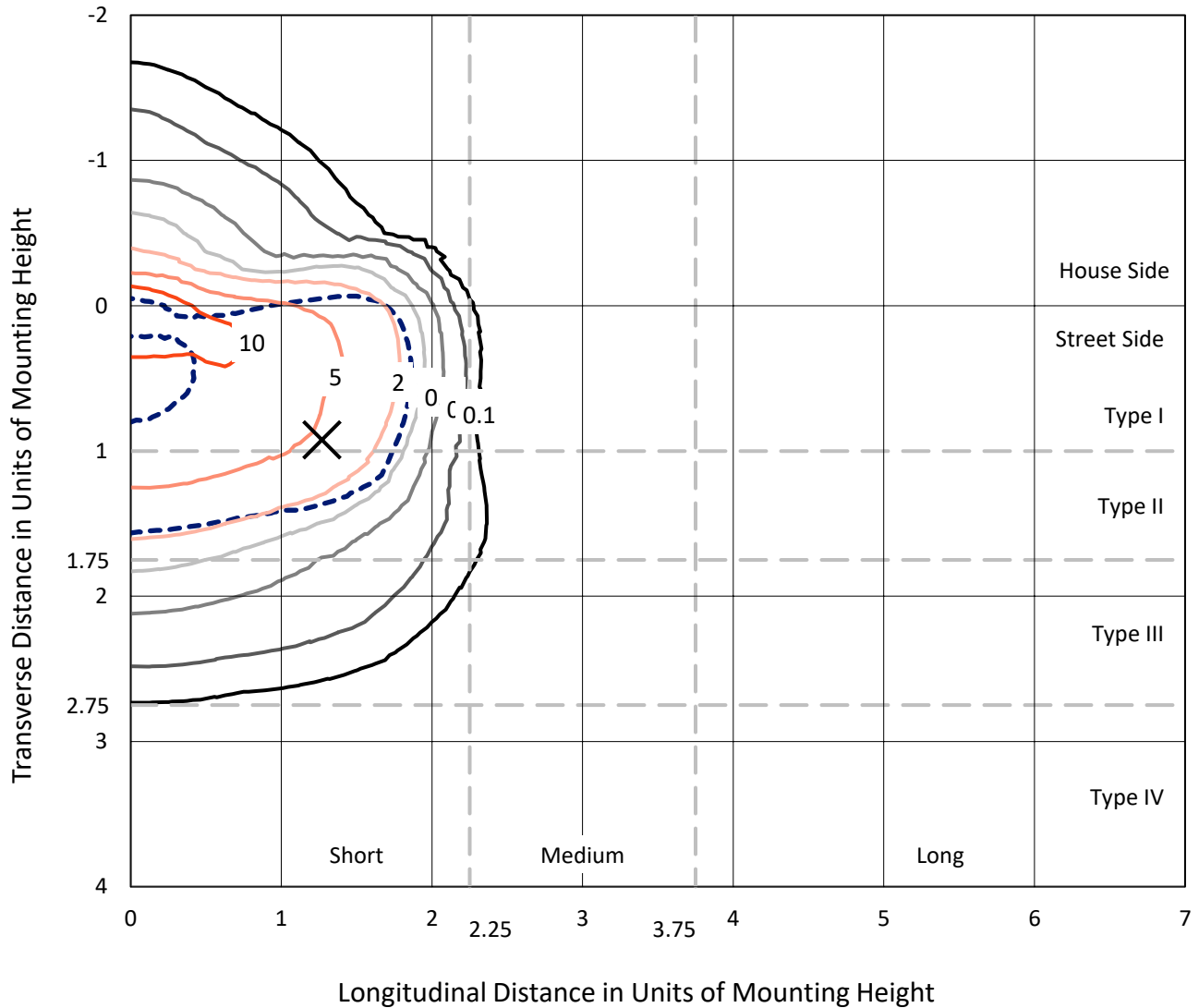
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

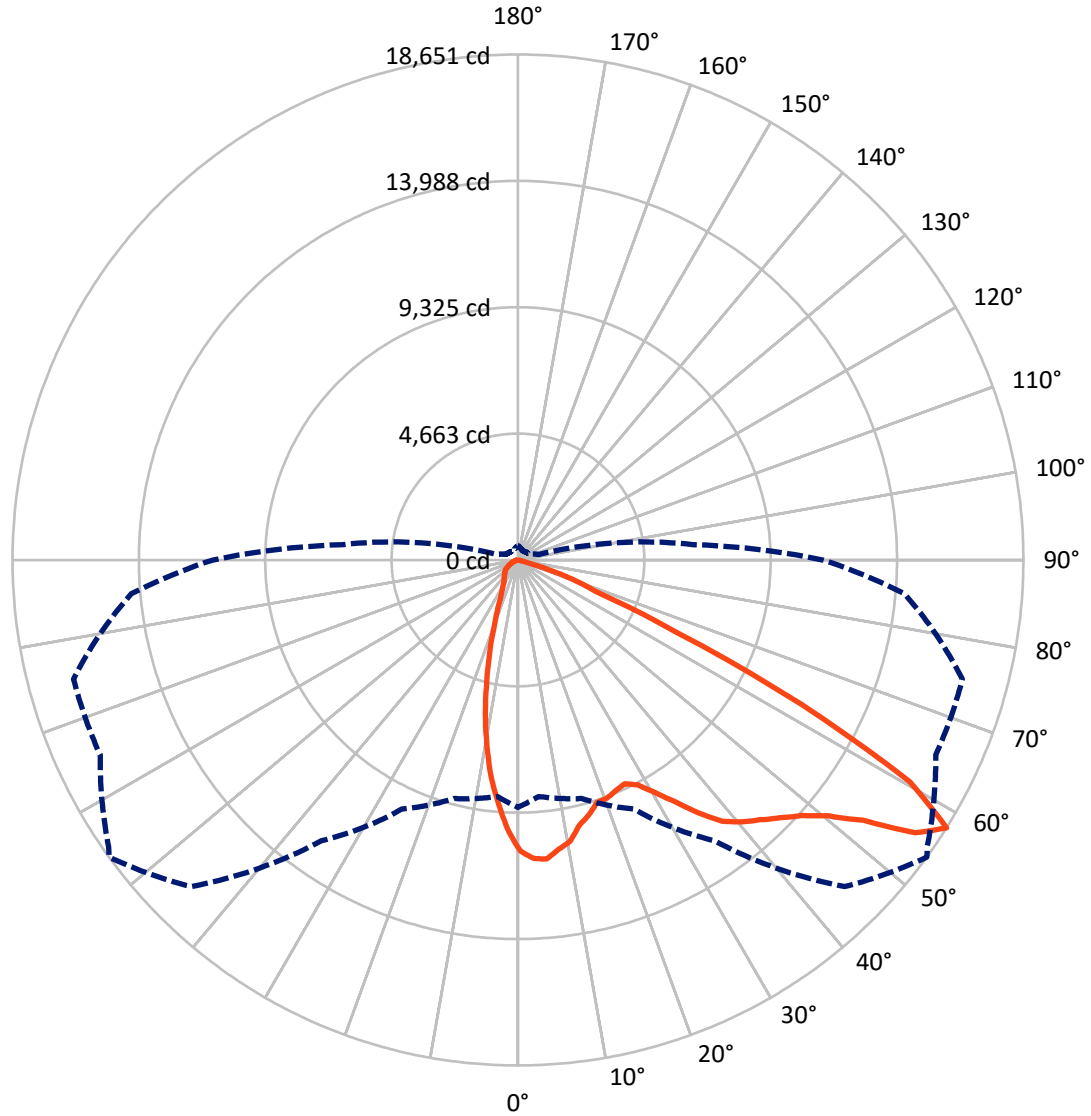
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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	3445.3	0.0	3445.3
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	20934.7	0.0	20934.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	24380.0	0.0	24380.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	898.7	3.7
10°-20°	1918.7	7.9
20°-30°	2542.7	10.4
30°-40°	3695.3	15.2
40°-50°	5479.6	22.5
50°-60°	6852.0	28.1
60°-70°	2702.8	11.1
70°-80°	269.1	1.1
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°	24380.0	100.0
0°-180°	24380.0	100.0

**Coefficient of Utilization**

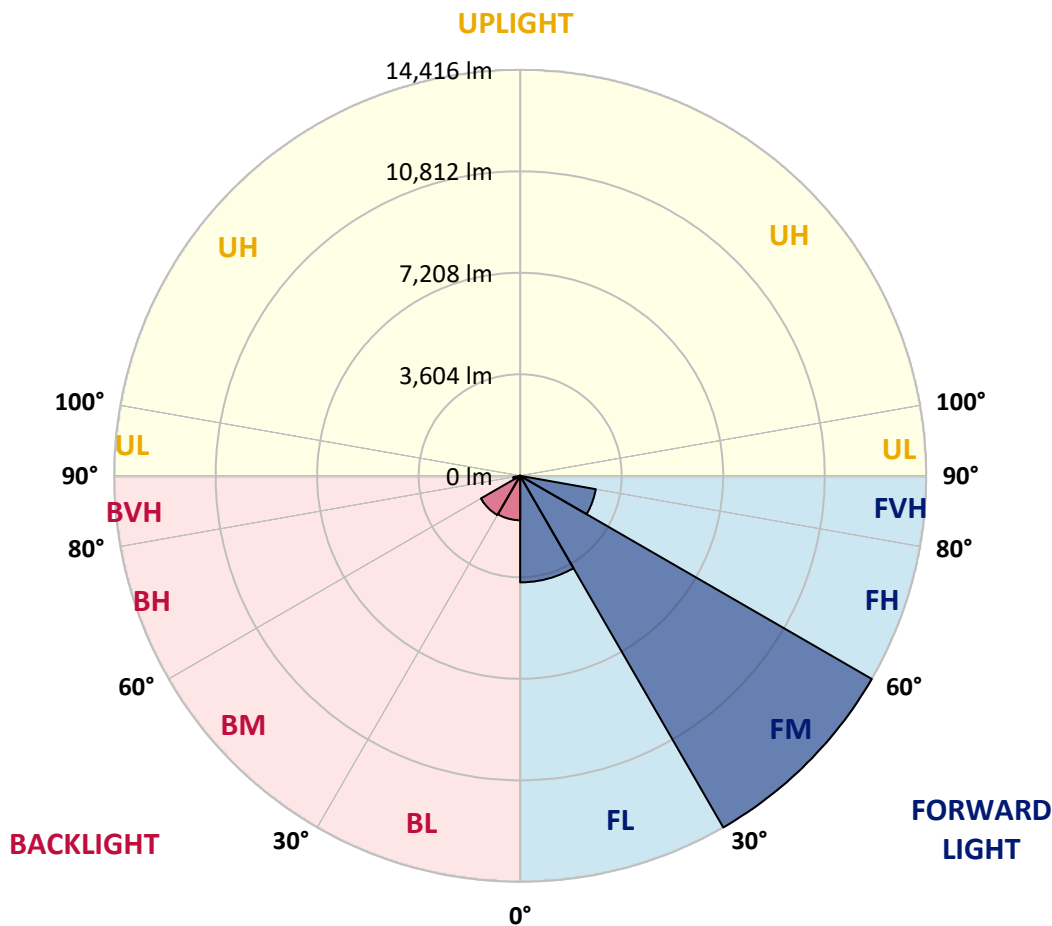


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3784.5	15.5			
FM (30°-60°)	14415.8	59.1			
FH (60°-80°)	2724.9	11.2			G2/5000
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	1575.7	6.5	B3/2500		
BM (30°-60°)	1611.1	6.6	B2/2500		
BH (60°-80°)	247.1	1.0	B1/500		G1/500
BVH (80°-90°)	11.4	0.0			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°	54°	55°	65°	75°	85°
0°	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7
2.5°	11365.3	11247.5	11256.5	11215.7	11161.3	11202.1	11025.3	11066.1	11061.6	10821.3	10662.6
5°	11079.7	11206.7	11075.2	11184.0	11079.7	11193.1	11084.3	11002.7	10871.2	10694.4	10399.7
7.5°	10594.6	10472.2	10508.5	10644.5	10667.2	10921.1	10785.1	10889.3	10834.9	10485.8	10082.4
10°	9620.0	9592.8	9774.1	9955.4	10177.6	10449.6	10553.8	10494.9	10454.1	10322.6	9783.2
12.5°	8871.9	8949.0	8944.5	9243.7	9620.0	9774.1	10046.1	10037.0	10263.7	10018.9	9502.1
15°	8160.2	8201.0	8391.4	8577.3	8994.3	9434.1	9769.6	9814.9	10086.9	9914.6	9284.5
17.5°	7725.0	7666.0	7815.6	8037.8	8463.9	9039.7	9411.4	9520.2	9892.0	9855.7	9035.1
20°	7294.3	7294.3	7416.7	7679.6	8069.5	8717.8	9379.7	9348.0	9892.0	9787.7	8767.7
22.5°	7149.2	7221.8	7253.5	7453.0	7915.4	8473.0	9243.7	9302.6	9969.0	9756.0	8649.8
25°	7348.7	7253.5	7262.6	7421.2	7856.5	8355.1	9143.9	9275.4	10109.6	9914.6	8554.6
27.5°	7380.4	7475.6	7502.8	7611.6	7901.8	8391.4	9393.3	9660.8	10458.6	10286.4	8581.8
30°	7657.0	7752.2	7747.6	7933.5	8133.0	8686.1	9950.9	10005.3	11179.5	10753.3	8749.5
32.5°	7992.5	8092.2	8123.9	8341.5	8500.2	9225.5	10630.9	10771.5	11873.1	11487.7	9189.3
35°	8409.5	8373.3	8518.3	8735.9	9075.9	10014.4	11460.5	11696.3	12621.1	12439.8	9642.6
37.5°	8930.9	8885.5	9026.1	9379.7	9842.1	10948.3	12226.7	12380.8	13165.1	13323.8	10481.3
40°	9298.1	9316.2	9742.4	10218.4	10708.0	11836.8	12711.8	12861.4	13545.9	14148.9	11116.0
42.5°	9910.1	10023.4	10535.7	11116.0	11628.3	12503.2	13106.2	13251.2	13722.7	14810.7	11972.8
45°	10798.7	10748.8	11315.5	11963.7	12530.4	13196.8	13573.1	13523.3	13827.0	15468.1	12512.3
47.5°	11941.1	11950.1	12326.4	12879.5	13468.8	13799.8	14094.5	13917.7	14044.6	16161.7	13233.1
50°	12720.8	12788.8	13092.6	13659.3	13953.9	14461.7	14837.9	14729.1	14688.3	16578.8	13686.5
52.5°	12920.3	13124.3	13287.5	13994.7	14683.8	15486.2	15966.8	16198.0	15472.6	16719.3	14262.2
55°	11415.2	11596.5	12172.3	13142.4	14960.4	17109.2	17771.1	17775.6	16497.2	17344.9	14665.7
57.5°	9125.8	8758.6	9112.2	10141.3	12648.3	17041.2	18650.6	18437.5	17009.5	16977.7	14316.6
60°	6310.5	6219.9	6242.5	6650.6	8754.1	13555.0	16619.6	16896.1	15663.0	14715.5	11333.6
62.5°	5000.4	4923.3	4823.6	4778.2	5435.6	8445.8	11723.5	12113.4	10952.8	9542.9	6718.6
65°	3916.9	3871.6	3885.2	4066.5	4062.0	4791.8	6410.3	6251.6	5004.9	3699.3	2112.6
67.5°	2643.0	2711.0	2765.4	3313.9	3595.0	3336.6	3096.3	3005.7	1627.5	684.5	466.9
70°	1487.0	1496.0	1555.0	2071.8	2729.1	2588.6	2135.3	2135.3	811.5	249.3	267.5
72.5°	811.5	784.3	729.9	893.1	1215.0	1233.1	952.0	829.6	240.3	163.2	149.6
75°	394.4	389.9	335.5	276.5	262.9	217.6	167.7	154.1	108.8	104.3	90.7
77.5°	81.6	77.1	40.8	40.8	45.3	49.9	63.5	63.5	77.1	77.1	63.5
80°	0.0	0.0	4.5	18.1	31.7	45.3	54.4	54.4	63.5	63.5	49.9
82.5°	0.0	0.0	4.5	13.6	27.2	40.8	49.9	54.4	63.5	68.0	54.4
85°	0.0	0.0	0.0	9.1	22.7	31.7	27.2	27.2	22.7	18.1	9.1
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°	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7	10739.7
2.5°	10581.0	10572.0	10363.4	10245.6	10032.5	9846.6	9697.0	9588.2	9588.2	9520.2	9456.8
5°	10281.8	10204.8	9760.5	9474.9	9071.4	8772.2	8568.2	8409.5	8160.2	8228.2	7960.7
7.5°	9910.1	9715.2	9125.8	8690.6	8133.0	7706.8	7271.6	6886.3	6514.6	6346.8	6437.5
10°	9511.2	9171.1	8377.8	7688.7	6995.1	6215.3	5707.6	5091.1	4710.2	4687.6	4587.8
12.5°	9089.5	8704.2	7738.6	6786.6	5875.3	4936.9	4161.7	3586.0	3327.5	3041.9	3096.3
15°	8772.2	8201.0	7026.8	5879.9	4669.4	3722.0	2942.2	2497.9	2253.1	2185.1	2162.5
17.5°	8427.7	7815.6	6301.5	4914.2	3663.0	2679.3	2117.1	1904.0	1808.8	1808.8	1795.2
20°	8069.5	7380.4	5580.7	4016.6	2747.3	1999.2	1695.5	1627.5	1623.0	1618.4	1618.4
22.5°	7833.8	6881.8	4927.8	3191.5	2071.8	1600.3	1473.4	1446.2	1464.3	1518.7	1518.7
25°	7584.4	6401.2	4207.0	2461.7	1604.8	1373.6	1301.1	1319.2	1364.6	1414.4	1396.3
27.5°	7330.6	6088.4	3527.0	1931.2	1314.7	1201.4	1174.2	1215.0	1264.8	1310.2	1296.6
30°	7271.6	5752.9	2883.3	1464.3	1128.8	1047.2	1065.4	1101.6	1151.5	1169.6	1187.8
32.5°	7362.3	5490.0	2361.9	1201.4	983.8	961.1	961.1	979.2	1011.0	1051.8	1038.2
35°	7620.7	5340.4	1867.8	1042.7	902.2	879.5	875.0	893.1	911.2	924.8	911.2
37.5°	8015.1	5222.5	1527.8	924.8	847.8	811.5	802.4	797.9	816.0	820.6	829.6
40°	8518.3	5286.0	1296.6	852.3	793.4	752.6	725.4	725.4	725.4	739.0	743.5
42.5°	9062.3	5372.1	1119.8	811.5	743.5	693.6	666.4	657.3	666.4	684.5	680.0
45°	9633.6	5539.9	1006.4	748.0	698.1	634.7	598.4	589.3	612.0	648.3	643.7
47.5°	10168.5	5780.1	920.3	707.2	652.8	593.9	548.5	539.5	580.3	630.1	634.7
50°	10703.5	6197.2	888.6	675.5	621.1	553.1	512.3	503.2	548.5	612.0	625.6
52.5°	11320.0	6646.0	865.9	634.7	584.8	521.3	476.0	466.9	516.8	598.4	602.9
55°	11723.5	7026.8	847.8	562.1	516.8	471.5	435.2	430.7	485.1	557.6	575.7
57.5°	11252.0	6496.4	784.3	489.6	439.7	417.1	385.3	385.3	430.7	498.7	512.3
60°	8531.9	4275.0	557.6	394.4	371.7	358.1	344.5	344.5	380.8	430.7	435.2
62.5°	4995.9	2303.0	358.1	317.3	317.3	303.7	281.1	281.1	317.3	344.5	349.1
65°	1482.4	739.0	290.1	272.0	267.5	244.8	222.1	217.6	244.8	258.4	253.9
67.5°	426.1	340.0	240.3	226.7	222.1	185.9	172.3	167.7	172.3	163.2	158.7
70°	253.9	231.2	185.9	190.4	167.7	136.0	122.4	117.9	108.8	95.2	86.1
72.5°	140.5	140.5	136.0	145.1	117.9	90.7	77.1	63.5	49.9	40.8	36.3
75°	86.1	90.7	95.2	99.7	77.1	58.9	49.9	31.7	18.1	9.1	9.1
77.5°	58.9	63.5	68.0	72.5	63.5	54.4	40.8	22.7	4.5	0.0	0.0
80°	45.3	49.9	58.9	63.5	68.0	72.5	54.4	22.7	4.5	0.0	0.0
82.5°	49.9	54.4	68.0	63.5	63.5	63.5	49.9	22.7	4.5	0.0	0.0
85°	9.1	13.6	22.7	22.7	31.7	40.8	31.7	9.1	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)