

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: P457327

Luminaire Tested: **GALN-SA8C-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36961 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

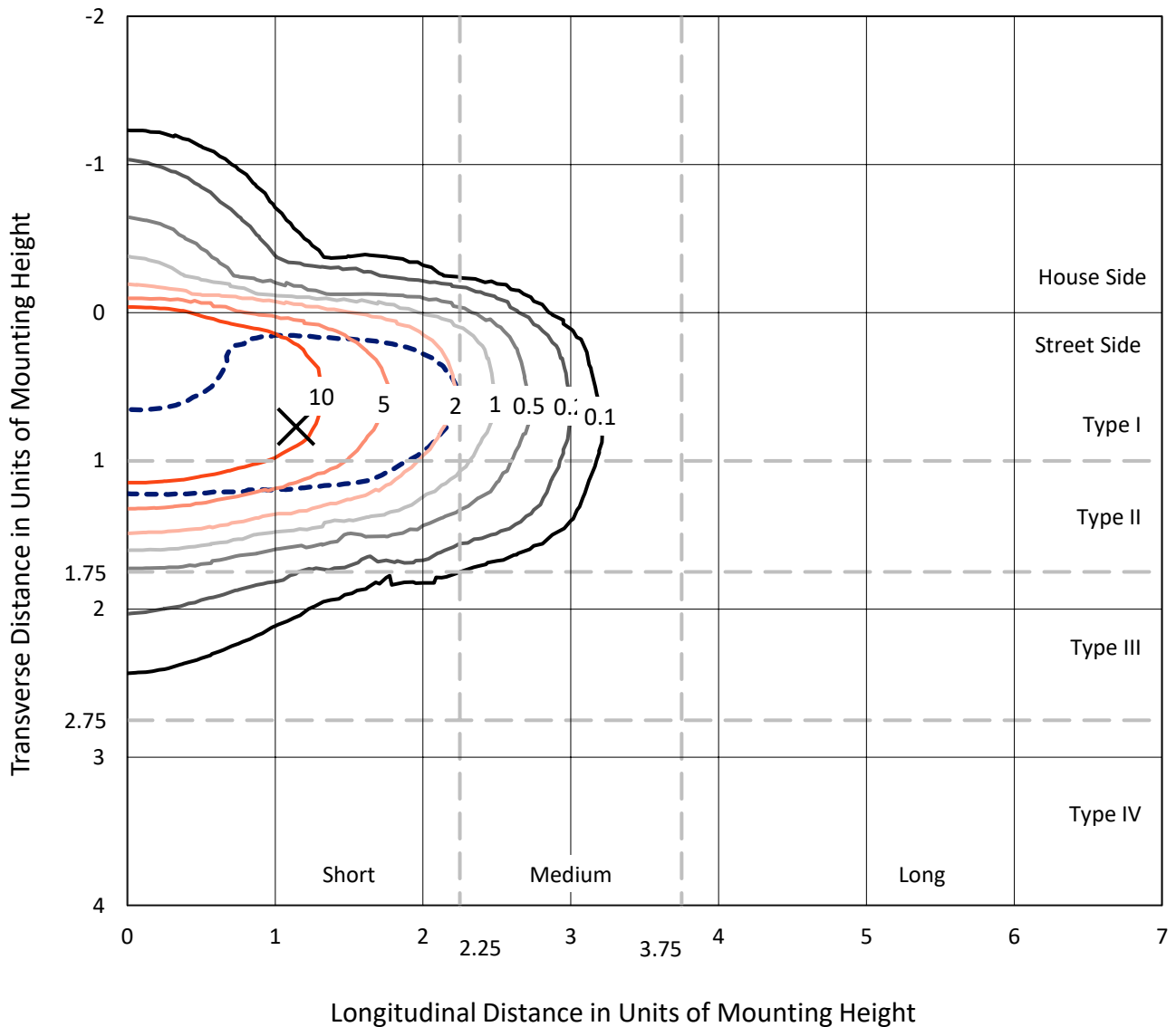
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

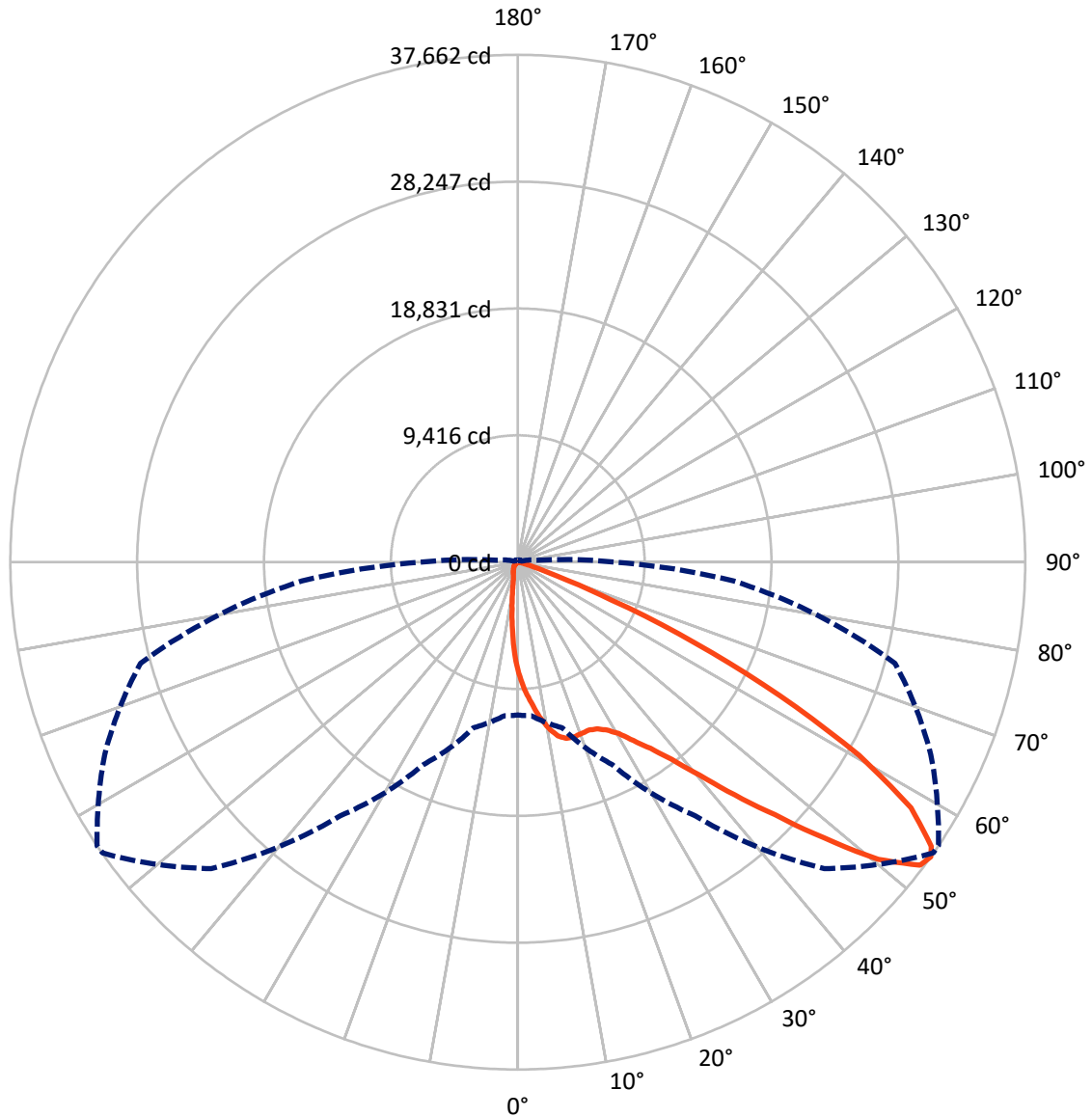
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1747.8	0.0	1747.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	35213.2	0.0	35213.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	36961.0	0.0	36961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.6	2.0
10°-20°	1961.6	5.3
20°-30°	3397.4	9.2
30°-40°	5864.4	15.9
40°-50°	9981.4	27.0
50°-60°	9877.9	26.7
60°-70°	4508.5	12.2
70°-80°	579.0	1.6
80°-90°	65.2	0.2
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°	36961.0	100.0
0°-180°	36961.0	100.0

Coefficient of Utilization



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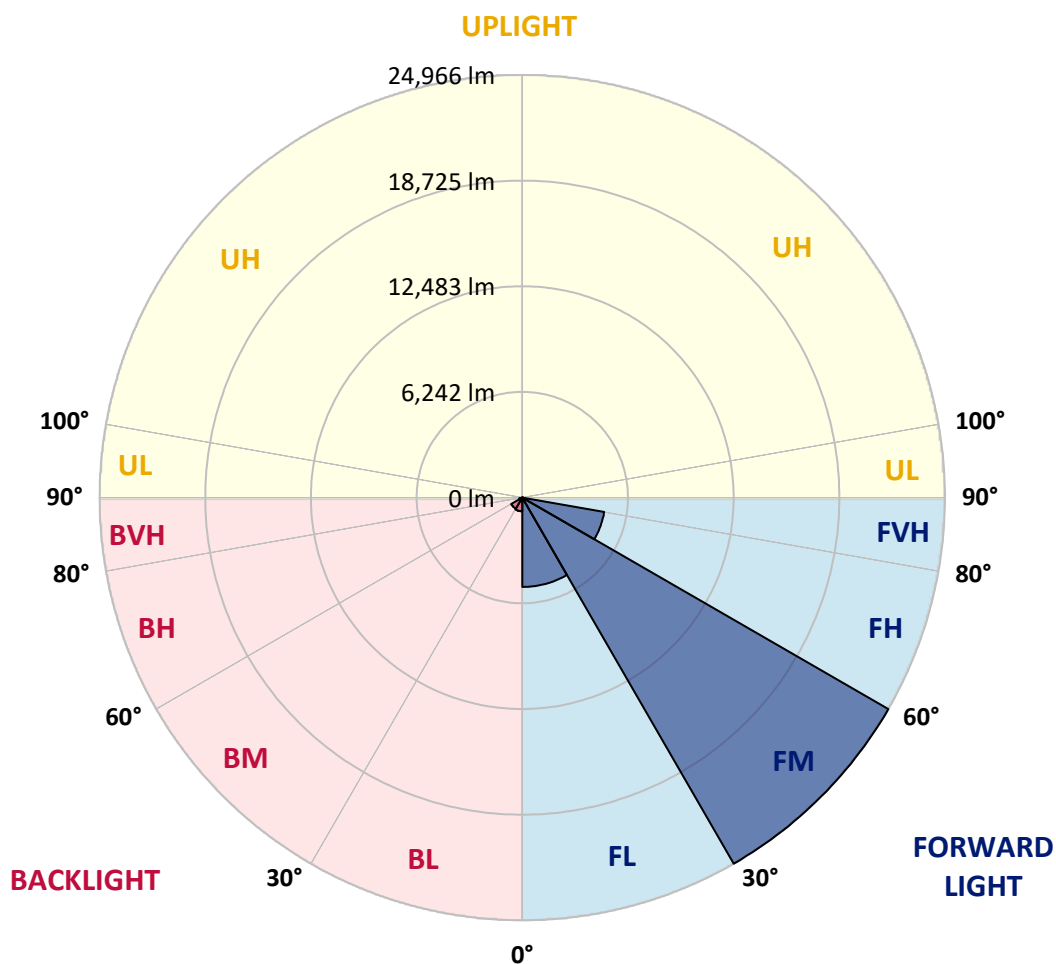
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5276.3	14.3			
FM	(30°-60°)	24966.2	67.5			
FH	(60°-80°)	4912.4	13.3			G2/5000
FVH	(80°-90°)	58.2	0.2			G1/100
BL	(0°-30°)	808.3	2.2	B2/1000		
BM	(30°-60°)	757.5	2.0	B1/1000		
BH	(60°-80°)	175.0	0.5	B1/500		G1/500
BVH	(80°-90°)	7.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7
2.5°	10436.0	10363.7	10264.0	10186.7	10004.6	9742.8	9466.0	9466.0	9199.2	8827.6	8448.6
5°	12037.0	11989.6	11892.3	11692.8	11488.4	11121.8	10565.7	10468.4	9992.2	9318.9	8610.7
7.5°	12687.8	12710.3	12715.2	12662.9	12565.6	12204.0	11652.9	11585.6	10825.0	9922.3	8822.6
10°	12064.4	12174.1	12281.3	12498.3	12805.0	12892.3	12580.6	12510.8	11762.7	10533.3	9052.0
12.5°	11136.8	11196.6	11256.4	11598.1	12214.0	12919.7	13246.4	13243.9	12610.5	11141.7	9343.8
15°	10705.3	10757.7	10762.7	10914.8	11448.5	12475.9	13530.7	13568.1	13438.4	11892.3	9658.0
17.5°	10795.1	10837.5	10802.6	10840.0	11119.3	11987.1	13498.3	13622.9	14109.2	12613.0	9942.3
20°	11381.1	11463.4	11328.8	11224.0	11308.8	11857.4	13388.5	13563.1	14583.0	13316.2	10201.6
22.5°	12433.5	12478.3	12308.8	12022.0	11872.4	12129.2	13358.6	13530.7	14987.0	13892.3	10351.2
25°	13603.0	13588.0	13401.0	13079.3	12765.1	12677.8	13555.6	13710.2	15321.1	14410.9	10396.1
27.5°	14772.5	14817.4	14503.2	14104.2	13727.7	13500.8	13997.0	14111.7	15697.7	15001.9	10451.0
30°	16131.6	16059.3	15750.1	15293.7	14862.3	14545.6	14707.7	14740.1	16216.4	15785.0	10595.6
32.5°	17899.6	17700.1	17353.5	16555.5	16246.3	15710.2	15750.1	15789.9	16847.3	16560.5	10770.2
35°	20298.5	20288.5	19610.3	18535.5	17782.4	17116.6	16942.0	16974.4	17802.3	17712.6	11156.7
37.5°	23186.2	23226.1	22453.0	21370.8	19984.3	18927.0	18567.9	18572.9	19253.7	19303.5	11745.2
40°	25537.7	25642.5	25181.1	24450.5	23081.5	21428.1	20824.7	20769.8	21293.5	21231.1	12585.6
42.5°	26550.2	26647.4	26819.5	27073.8	26320.7	24956.7	23532.8	23607.6	23767.2	23330.8	13528.2
45°	26053.9	26208.5	26884.3	28455.3	29163.5	28704.7	27006.5	26744.7	26068.9	25612.5	14475.8
47.5°	23986.7	24363.2	25492.8	28108.7	30587.4	32138.5	30926.6	30579.9	28373.0	27278.3	15079.3
50°	20587.8	20610.2	22183.7	25527.8	29849.3	34305.5	34928.9	34669.6	30520.1	28213.4	15383.5
52.5°	14924.6	15415.9	16857.2	20729.9	26652.4	33976.3	37479.9	37372.7	32734.5	28692.2	15822.4
54°	11346.2	11441.0	12722.7	16565.5	22979.2	32168.4	37637.0	37662.0	33834.2	28981.5	16081.7
55°	9301.4	9074.5	10421.1	14111.7	20473.1	30570.0	37123.3	37243.0	34327.9	29131.1	16273.7
57.5°	4408.8	4411.3	5441.2	7443.6	12822.5	23737.3	33983.8	34407.7	34382.8	29388.0	16864.7
60°	2231.8	2246.8	2473.7	3436.3	6333.9	15780.0	28098.7	29108.7	31737.0	29425.4	17059.2
62.5°	1561.0	1543.6	1506.2	1653.3	2665.7	8019.7	20919.4	21797.2	26964.1	28001.5	16440.8
65°	1336.6	1299.2	1194.5	1172.0	1346.6	3194.4	13029.5	14460.8	20587.8	24246.0	14680.3
67.5°	1142.1	1127.1	1032.4	975.0	952.6	1391.5	6722.9	7476.0	14071.8	17428.3	11119.3
70°	970.0	962.6	905.2	832.9	770.5	832.9	2493.7	3089.7	7842.6	9383.7	5246.7
72.5°	788.0	795.5	805.5	713.2	648.4	591.0	1064.8	1239.4	3281.7	3354.0	1835.3
75°	690.7	683.3	683.3	620.9	541.1	438.9	586.0	630.9	1005.0	932.6	426.4
77.5°	486.3	468.8	548.6	511.2	451.4	311.7	334.2	354.1	416.4	356.6	199.5
80°	336.6	336.6	351.6	458.8	406.5	226.9	204.5	219.4	246.9	212.0	114.7
82.5°	189.5	194.5	229.4	244.4	236.9	152.1	134.7	137.2	164.6	144.6	72.3
85°	22.4	37.4	132.2	129.7	97.3	67.3	74.8	77.3	102.2	89.8	42.4
87.5°	2.5	5.0	27.4	34.9	24.9	27.4	27.4	27.4	34.9	39.9	29.9
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°	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7	8211.7
2.5°	8244.1	8054.6	7603.2	7079.5	6745.4	6201.8	5742.9	5411.3	5329.0	5169.4	5216.8
5°	8234.1	7840.1	6919.9	5947.4	4910.0	4137.0	3561.0	3107.1	2907.6	2775.5	2683.2
7.5°	8239.1	7623.2	6146.9	4598.3	3359.0	2600.9	2067.3	1790.5	1605.9	1528.6	1538.6
10°	8254.1	7378.8	5249.2	3406.4	2266.8	1680.7	1354.1	1221.9	1159.6	1149.6	1147.1
12.5°	8289.0	7112.0	4391.4	2528.6	1586.0	1221.9	1097.2	1052.3	1032.4	1032.4	1024.9
15°	8326.4	6817.7	3678.2	1880.2	1221.9	1049.8	992.5	970.0	957.6	957.6	955.1
17.5°	8326.4	6478.6	3012.4	1458.8	1052.3	965.1	920.2	890.2	880.3	880.3	877.8
20°	8274.0	6084.6	2421.4	1174.5	955.1	885.3	840.4	808.0	795.5	790.5	788.0
22.5°	8092.0	5558.4	1927.6	1009.9	875.3	815.4	758.1	720.7	710.7	705.7	708.2
25°	7767.8	4964.9	1526.1	887.7	803.0	730.6	680.8	653.3	643.4	643.4	645.9
27.5°	7433.6	4344.0	1209.4	795.5	715.7	650.8	611.0	593.5	591.0	598.5	601.0
30°	7124.4	3720.6	980.0	720.7	638.4	583.5	556.1	551.1	551.1	553.6	556.1
32.5°	6780.3	3174.4	820.4	655.8	576.0	528.7	513.7	513.7	518.7	518.7	523.7
35°	6563.4	2705.6	720.7	593.5	528.7	488.8	478.8	481.3	488.8	498.7	503.7
37.5°	6446.1	2331.6	655.8	543.6	483.8	456.3	446.4	451.4	468.8	486.3	488.8
40°	6456.1	2049.8	603.5	501.2	448.9	418.9	411.5	426.4	443.9	461.3	463.8
42.5°	6565.8	1840.3	553.6	451.4	418.9	376.5	374.1	389.0	396.5	414.0	416.4
45°	6695.5	1688.2	501.2	399.0	364.1	326.7	329.2	341.6	351.6	379.0	384.0
47.5°	6735.4	1583.5	441.4	339.1	299.2	286.8	289.3	296.7	316.7	341.6	344.1
50°	6780.3	1518.6	384.0	286.8	254.4	251.9	254.4	259.3	271.8	281.8	279.3
52.5°	6972.3	1516.2	336.6	249.4	216.9	221.9	224.4	221.9	212.0	197.0	192.0
54°	7151.9	1523.6	314.2	231.9	199.5	207.0	204.5	192.0	167.1	152.1	144.6
55°	7296.5	1531.1	301.7	219.4	189.5	192.0	194.5	169.6	137.2	122.2	117.2
57.5°	7580.8	1513.7	271.8	192.0	167.1	157.1	154.6	112.2	74.8	64.8	59.8
60°	7438.6	1366.5	246.9	164.6	142.1	127.2	104.7	62.3	37.4	27.4	27.4
62.5°	6880.0	1159.6	219.4	134.7	117.2	97.3	54.9	34.9	17.5	10.0	7.5
65°	6154.4	975.0	197.0	107.2	92.3	62.3	29.9	22.4	7.5	0.0	0.0
67.5°	4575.9	723.2	167.1	84.8	69.8	39.9	19.9	12.5	2.5	0.0	0.0
70°	2119.6	441.4	142.1	64.8	49.9	29.9	15.0	7.5	0.0	0.0	0.0
72.5°	608.5	276.8	117.2	47.4	34.9	24.9	12.5	5.0	2.5	0.0	0.0
75°	212.0	221.9	87.3	34.9	27.4	17.5	10.0	5.0	2.5	0.0	0.0
77.5°	127.2	179.5	54.9	29.9	22.4	15.0	10.0	5.0	2.5	2.5	0.0
80°	72.3	119.7	34.9	24.9	19.9	12.5	7.5	5.0	2.5	2.5	0.0
82.5°	39.9	57.4	27.4	22.4	17.5	12.5	7.5	5.0	2.5	2.5	2.5
85°	32.4	29.9	22.4	19.9	15.0	10.0	7.5	2.5	0.0	0.0	0.0
87.5°	24.9	19.9	19.9	19.9	15.0	10.0	7.5	2.5	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)