

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: P455097

Luminaire Tested: **GALN-SA6B-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25150 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

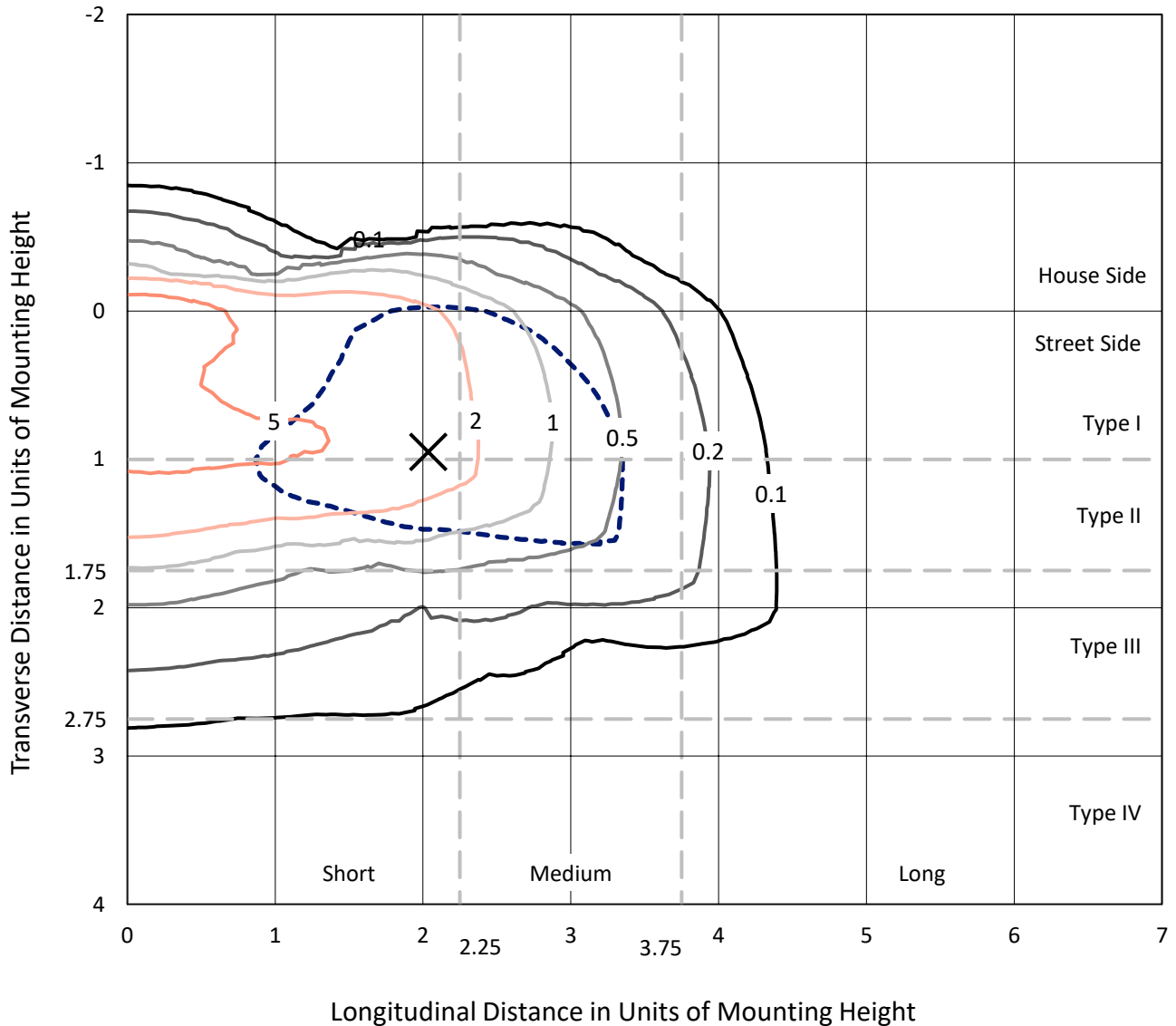
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

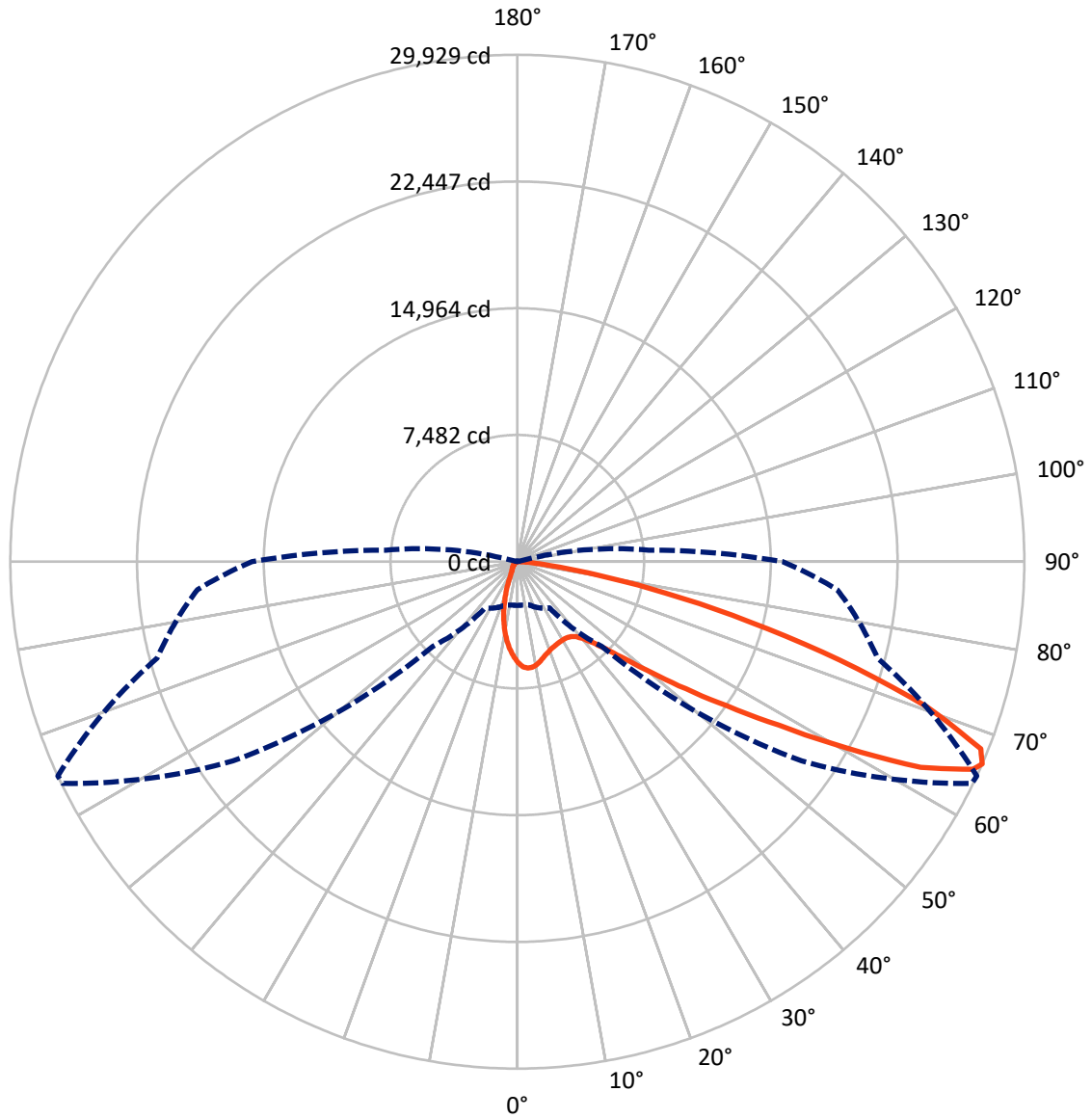
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2600.9	0.0	2600.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22549.1	0.0	22549.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	25150.0	0.0	25150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.8	1.9
10°-20°	1062.8	4.2
20°-30°	1522.4	6.1
30°-40°	2223.6	8.8
40°-50°	3728.6	14.8
50°-60°	6222.5	24.7
60°-70°	6604.9	26.3
70°-80°	2991.4	11.9
80°-90°	306.1	1.2
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°	25150.0	100.0
0°-180°	25150.0	100.0

Coefficient of Utilization



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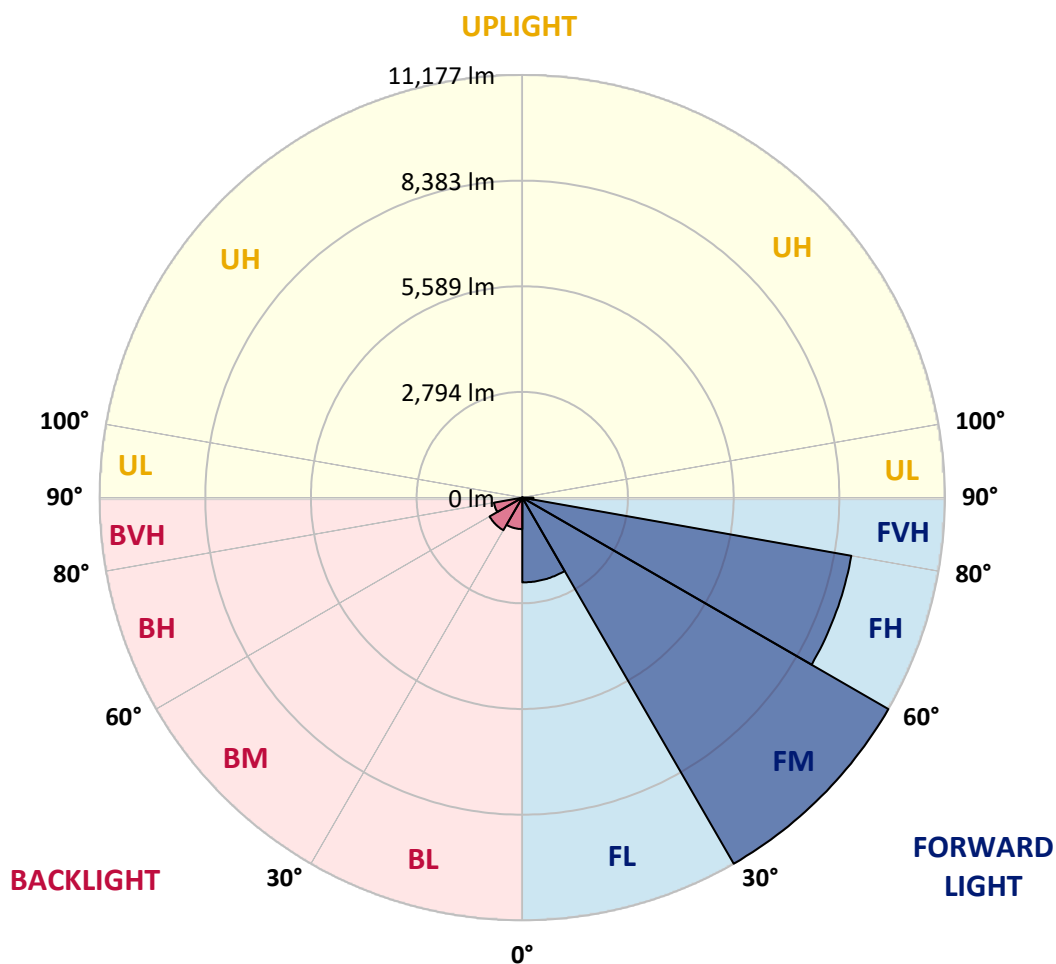
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2241.0	8.9			
FM (30°-60°)	11177.2	44.4			
FH (60°-80°)	8834.6	35.1			G4/12000
FVH (80°-90°)	296.3	1.2			G3/500
BL (0°-30°)	832.0	3.3	B2/1000		
BM (30°-60°)	997.5	4.0	B1/1000		
BH (60°-80°)	761.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.8	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0
2.5°	6285.0	6291.8	6300.3	6312.2	6320.7	6295.2	6259.6	6218.8	6210.3	6123.7	6018.3
5°	5948.7	5958.9	6033.6	6074.4	6166.1	6249.4	6302.0	6308.8	6305.4	6223.9	6055.7
7.5°	5469.7	5498.6	5571.6	5642.9	5814.5	5972.5	6159.3	6290.1	6298.6	6276.5	6067.6
10°	5080.7	5099.4	5136.7	5277.7	5420.4	5661.6	5923.2	6169.5	6189.9	6278.2	6057.4
12.5°	4776.6	4803.8	4849.7	4958.4	5130.0	5357.6	5654.8	5986.1	6028.5	6246.0	6028.5
15°	4564.3	4577.9	4623.8	4730.8	4897.2	5107.9	5408.5	5794.1	5831.5	6203.5	6023.4
17.5°	4464.1	4479.4	4511.6	4596.6	4734.2	4929.5	5223.4	5639.5	5687.1	6176.3	6042.1
20°	4491.3	4504.8	4506.5	4550.7	4644.1	4808.9	5087.5	5495.2	5556.3	6159.3	6072.7
22.5°	4645.8	4647.5	4627.1	4606.8	4639.0	4757.9	5004.3	5403.4	5466.3	6155.9	6108.4
25°	4876.9	4881.9	4848.0	4776.6	4712.1	4773.2	4985.6	5344.0	5400.0	6147.4	6130.5
27.5°	5196.2	5194.5	5184.3	5065.4	4881.9	4841.2	5000.9	5311.7	5359.3	6123.7	6139.0
30°	5642.9	5629.4	5607.3	5473.1	5192.8	5005.9	5065.4	5291.3	5335.5	6089.7	6116.9
32.5°	6082.9	6133.9	6130.5	6003.1	5653.1	5299.8	5199.6	5318.5	5350.8	6067.6	6084.6
35°	6595.9	6594.2	6725.0	6677.4	6268.1	5675.2	5428.9	5408.5	5434.0	6082.9	6069.3
37.5°	7071.5	7115.7	7319.5	7368.8	6995.1	6205.2	5753.4	5602.2	5610.7	6186.5	6106.7
40°	7664.4	7749.3	8053.3	8218.1	7888.6	6991.7	6232.4	5957.2	5958.9	6441.3	6247.7
42.5°	8428.7	8562.9	8846.6	9121.8	8945.1	7922.5	6950.9	6519.5	6516.1	6889.8	6570.4
45°	9357.9	9451.3	9774.1	10210.6	10098.5	9222.0	7997.3	7390.9	7346.7	7625.3	7142.9
47.5°	10159.7	10287.1	10614.9	11112.6	11622.2	10808.6	9247.5	8588.4	8559.5	8795.7	8124.7
50°	10509.6	10621.7	10966.5	11664.7	12899.6	12891.1	11109.2	10336.3	10287.1	10414.5	9643.3
52.5°	10125.7	10231.0	10579.2	11449.0	13500.9	15428.9	13806.7	12529.3	12469.9	12306.8	11457.5
55°	8810.9	8897.6	9412.3	10411.1	13269.9	17120.8	17523.4	15238.7	15007.7	14374.1	13511.1
57.5°	7015.5	6971.3	7290.6	8450.8	11914.4	17688.1	21338.6	18613.9	18201.1	16161.0	15248.9
60°	4861.6	4997.5	5126.6	5891.0	8958.7	16704.6	23711.6	22857.2	22313.6	17919.2	16913.5
62.5°	3574.0	3664.0	3748.9	4102.3	5632.8	13337.9	24131.2	27215.9	26733.5	19786.0	18501.8
65°	2826.6	2833.4	2867.3	3215.6	3711.6	8673.4	22114.8	29673.9	29549.9	21583.2	19145.6
66°	2575.2	2576.9	2629.5	3003.2	3331.1	7063.0	20499.4	29860.7	29928.7	22014.6	18957.0
67.5°	2250.7	2243.9	2320.4	2699.2	3033.8	5092.6	17608.3	29103.1	29505.7	22345.9	18279.3
70°	1744.5	1736.0	1829.5	2264.3	2794.3	3397.3	11703.8	24989.0	25637.9	21668.1	16172.9
72.5°	1161.9	1168.7	1328.4	1787.0	2666.9	2991.3	7040.9	19009.7	19927.0	17893.7	12723.0
75°	677.8	689.7	871.4	1328.4	2315.3	2852.0	3985.1	13555.3	14141.3	12356.0	7925.9
77.5°	355.0	360.1	487.5	876.5	1775.1	2648.2	2655.0	8659.8	8934.9	6004.8	3137.4
80°	188.6	183.5	261.6	528.3	1221.3	2325.5	2153.9	4584.7	4766.4	1783.6	793.3
82.5°	71.3	78.1	139.3	346.5	721.9	1669.8	1854.9	2026.5	1963.7	392.4	332.9
85°	13.6	17.0	59.5	205.5	363.5	698.1	1367.4	993.7	920.7	147.8	191.9
87.5°	1.7	3.4	17.0	49.3	52.7	236.1	404.3	275.2	237.8	54.4	79.8
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°	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0	5964.0
2.5°	5967.4	5921.5	5768.6	5617.5	5462.9	5323.6	5228.5	5073.9	5034.8	4978.8	4946.5
5°	5955.5	5848.5	5554.6	5233.6	4934.6	4611.9	4365.6	4127.7	4000.3	3935.8	3912.0
7.5°	5921.5	5751.7	5293.0	4790.2	4311.2	3828.8	3409.2	3089.9	2884.3	2743.3	2648.2
10°	5853.6	5619.2	4989.0	4297.6	3574.0	2937.0	2405.3	2001.0	1688.5	1589.9	1593.3
12.5°	5783.9	5471.4	4649.2	3750.6	2853.7	2050.3	1486.3	1167.0	1017.5	968.2	958.0
15°	5719.4	5330.4	4316.3	3220.7	2125.0	1328.4	958.0	845.9	805.2	796.7	795.0
17.5°	5685.4	5199.6	3961.3	2614.2	1482.9	902.0	767.8	737.2	725.3	716.8	713.4
20°	5656.5	5085.8	3621.5	2046.9	1014.1	738.9	688.0	659.1	638.7	630.2	625.1
22.5°	5636.2	4968.6	3269.9	1584.8	776.3	655.7	609.8	572.4	543.6	533.4	526.6
25°	5605.6	4839.5	2914.9	1158.5	654.0	582.6	530.0	485.8	448.4	429.8	426.4
27.5°	5561.4	4693.4	2525.9	857.8	584.3	518.1	453.5	399.2	361.8	341.4	343.1
30°	5490.1	4540.5	2136.9	681.2	528.3	451.8	382.2	329.5	293.9	278.6	276.9
32.5°	5405.1	4355.4	1780.2	584.3	477.3	392.4	319.3	273.5	246.3	234.4	232.7
35°	5325.3	4168.5	1416.7	524.9	424.7	338.0	268.4	229.3	208.9	198.7	200.4
37.5°	5281.1	4002.0	1104.1	477.3	382.2	290.5	231.0	197.0	178.4	169.9	168.2
40°	5310.0	3866.1	878.2	434.9	334.6	249.7	198.7	169.9	151.2	139.3	139.3
42.5°	5445.9	3806.7	708.3	394.1	290.5	215.7	173.3	146.1	125.7	113.8	115.5
45°	5860.4	3869.5	592.8	356.7	249.7	186.9	149.5	120.6	101.9	93.4	91.7
47.5°	6548.3	4105.7	513.0	317.6	214.0	159.7	125.7	100.2	81.5	74.7	73.0
50°	7751.0	4593.2	453.5	278.6	181.8	135.9	103.6	79.8	64.5	57.8	57.8
52.5°	9405.5	5656.5	411.1	234.4	152.9	115.5	84.9	64.5	51.0	45.9	44.2
55°	11134.7	6777.7	389.0	197.0	127.4	95.1	67.9	51.0	39.1	34.0	32.3
57.5°	12797.7	7657.6	363.5	159.7	101.9	73.0	52.7	39.1	27.2	23.8	22.1
60°	14392.7	8369.3	309.2	127.4	79.8	52.7	39.1	27.2	18.7	15.3	15.3
62.5°	15819.6	8783.8	242.9	101.9	61.2	37.4	25.5	20.4	13.6	10.2	10.2
65°	15986.1	8245.3	183.5	78.1	44.2	23.8	15.3	15.3	10.2	6.8	6.8
66°	15651.4	7788.4	161.4	71.3	39.1	20.4	13.6	11.9	8.5	5.1	5.1
67.5°	14904.0	7008.7	139.3	61.2	32.3	15.3	10.2	10.2	6.8	3.4	3.4
70°	12877.5	5724.5	110.4	45.9	23.8	11.9	6.8	6.8	5.1	3.4	3.4
72.5°	9814.9	4273.8	90.0	34.0	17.0	8.5	5.1	5.1	5.1	3.4	3.4
75°	5919.8	2301.7	69.6	25.5	15.3	6.8	3.4	5.1	6.8	5.1	3.4
77.5°	2181.1	783.1	54.4	20.4	11.9	6.8	3.4	3.4	6.8	5.1	5.1
80°	535.1	203.8	39.1	17.0	11.9	6.8	3.4	3.4	6.8	6.8	6.8
82.5°	248.0	86.6	27.2	15.3	11.9	6.8	3.4	3.4	5.1	6.8	6.8
85°	142.7	40.8	22.1	17.0	11.9	6.8	3.4	3.4	5.1	6.8	6.8
87.5°	57.8	20.4	20.4	17.0	13.6	8.5	3.4	3.4	3.4	5.1	5.1
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)