

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: P456721

Luminaire Tested: **GALN-SA8A-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456721
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-SA8A-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 27524 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

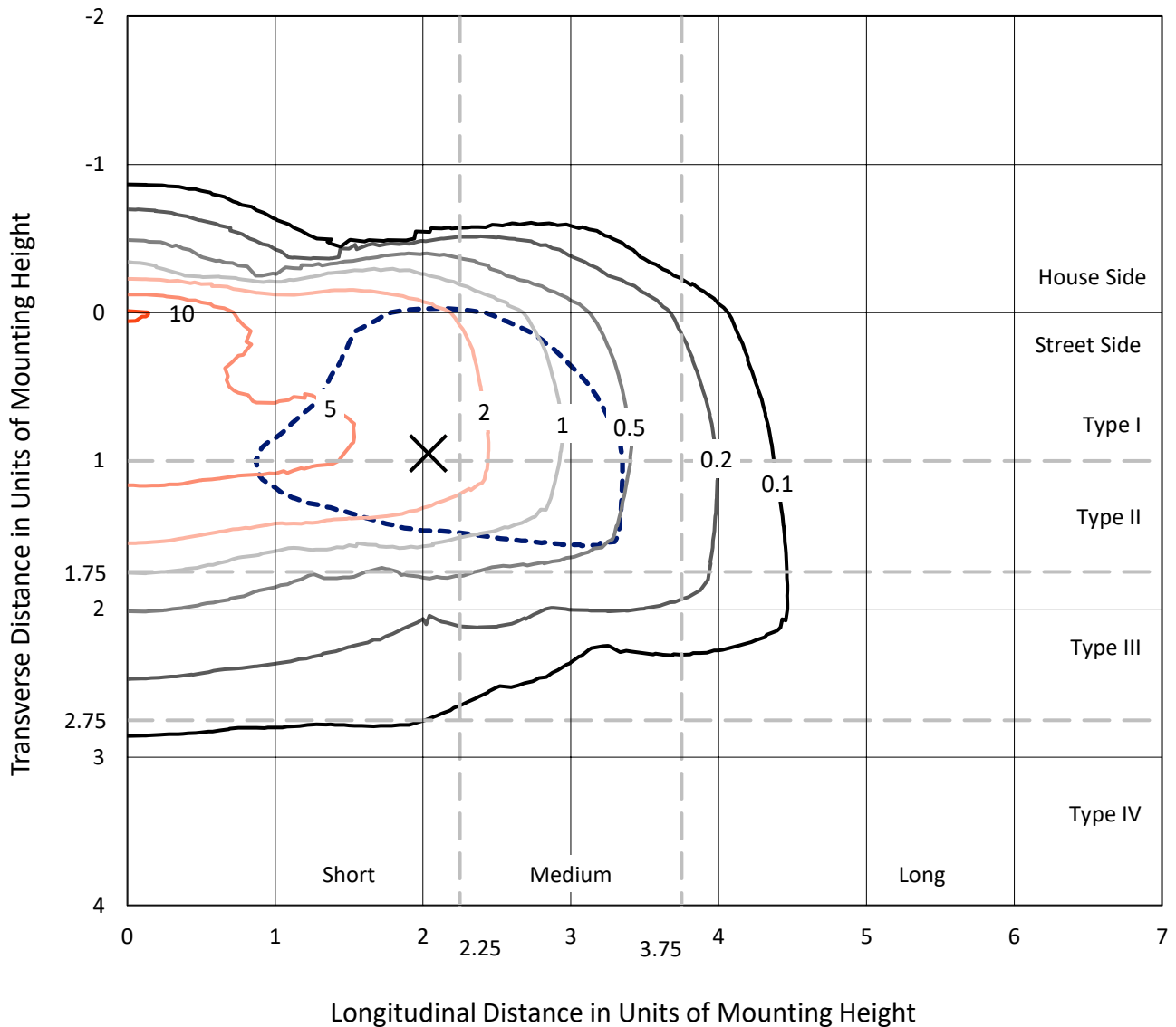
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

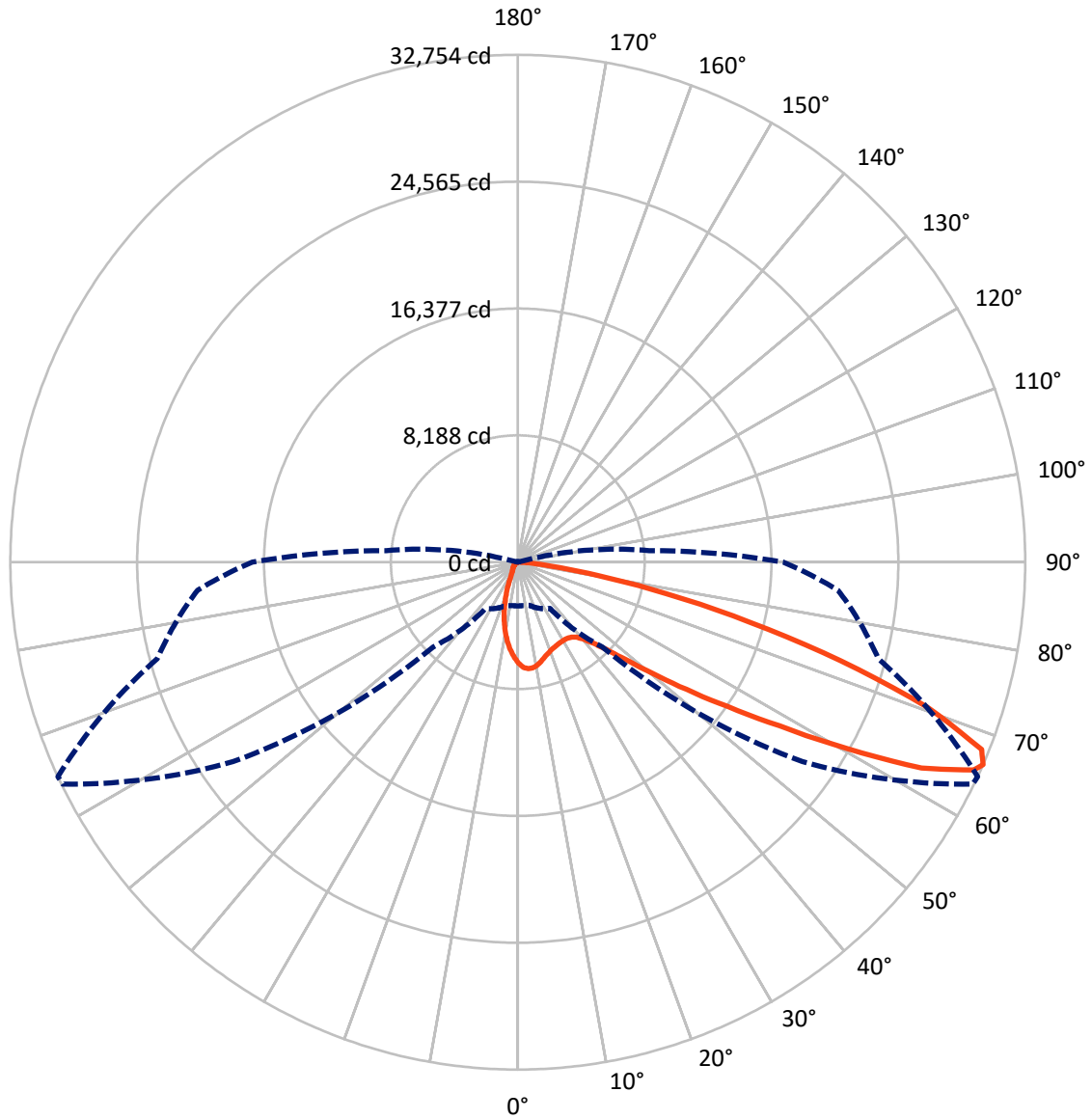
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	2846.4	0.0	2846.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	24677.6	0.0	24677.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	27524.0	0.0	27524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.8	1.9
10°-20°	1163.1	4.2
20°-30°	1666.1	6.1
30°-40°	2433.5	8.8
40°-50°	4080.6	14.8
50°-60°	6809.8	24.7
60°-70°	7228.4	26.3
70°-80°	3273.7	11.9
80°-90°	335.0	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°	27524.0	100.0
0°-180°	27524.0	100.0

Coefficient of Utilization



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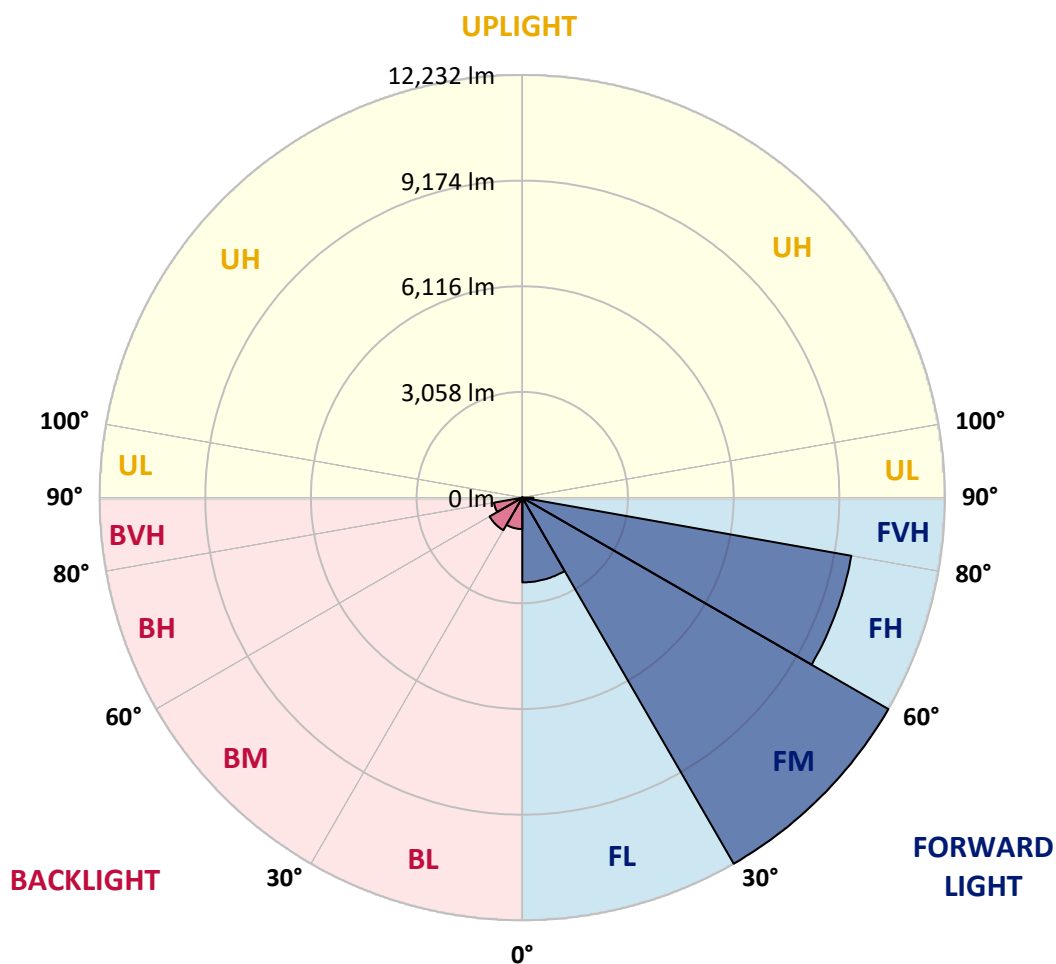
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.5	8.9			
FM (30°-60°)	12232.3	44.4			
FH (60°-80°)	9668.6	35.1			G4/12000
FVH (80°-90°)	324.3	1.2			G3/500
BL (0°-30°)	910.5	3.3	B2/1000		
BM (30°-60°)	1091.6	4.0	B2/2500		
BH (60°-80°)	833.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.7	0.0			G1/100
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°	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0
2.5°	6878.3	6885.7	6895.0	6908.1	6917.3	6889.5	6850.4	6805.8	6796.5	6701.7	6586.4
5°	6510.2	6521.4	6603.2	6647.8	6748.2	6839.3	6896.9	6904.3	6900.6	6811.4	6627.3
7.5°	5986.0	6017.6	6097.5	6175.6	6363.4	6536.3	6740.7	6883.9	6893.2	6869.0	6640.4
10°	5560.3	5580.7	5621.6	5775.9	5932.1	6196.1	6482.3	6751.9	6774.2	6870.9	6629.2
12.5°	5227.5	5257.3	5307.5	5426.4	5614.2	5863.3	6188.6	6551.1	6597.6	6835.5	6597.6
15°	4995.1	5010.0	5060.2	5177.3	5359.5	5590.0	5919.1	6341.1	6382.0	6789.1	6592.0
17.5°	4885.5	4902.2	4937.5	5030.5	5181.0	5394.8	5716.4	6171.9	6223.9	6759.3	6612.5
20°	4915.2	4930.1	4931.9	4980.3	5082.5	5262.8	5567.7	6013.9	6080.8	6740.7	6645.9
22.5°	5084.4	5086.2	5063.9	5041.6	5076.9	5207.1	5476.6	5913.5	5982.3	6737.0	6685.0
25°	5337.2	5342.8	5305.6	5227.5	5156.9	5223.8	5456.2	5848.4	5909.8	6727.7	6709.1
27.5°	5686.7	5684.8	5673.7	5543.5	5342.8	5298.2	5472.9	5813.1	5865.2	6701.7	6718.4
30°	6175.6	6160.7	6136.6	5989.7	5683.0	5478.5	5543.5	5790.8	5839.1	6664.5	6694.3
32.5°	6657.1	6712.9	6709.1	6569.7	6186.8	5800.1	5690.4	5820.5	5855.9	6640.4	6658.9
35°	7218.5	7216.6	7359.8	7307.7	6859.7	6210.9	5941.4	5919.1	5946.9	6657.1	6642.2
37.5°	7739.0	7787.4	8010.4	8064.4	7655.4	6790.9	6296.4	6131.0	6140.3	6770.5	6683.1
40°	8387.8	8480.8	8813.5	8993.9	8633.2	7651.7	6820.7	6519.5	6521.4	7049.3	6837.4
42.5°	9224.4	9371.2	9681.7	9982.8	9789.5	8670.4	7607.0	7134.8	7131.1	7540.1	7190.6
45°	10241.2	10343.5	10696.7	11174.5	11051.8	10092.5	8752.2	8088.5	8040.2	8345.1	7817.1
47.5°	11118.7	11258.1	11616.9	12161.6	12719.3	11828.8	10120.4	9399.1	9367.5	9625.9	8891.6
50°	11501.6	11624.3	12001.7	12765.8	14117.3	14108.0	12157.9	11312.0	11258.1	11397.5	10553.6
52.5°	11081.5	11196.8	11577.9	12529.7	14775.3	16885.3	15110.0	13712.0	13646.9	13468.5	12539.0
55°	9642.6	9737.5	10300.7	11393.8	14522.5	18736.9	19177.5	16677.1	16424.3	15730.9	14786.5
57.5°	7677.7	7629.3	7978.8	9248.5	13039.0	19357.8	23352.8	20370.9	19919.2	17686.5	16688.3
60°	5320.5	5469.2	5610.5	6447.0	9804.4	18281.4	25949.8	25014.7	24419.8	19610.6	18510.1
62.5°	3911.3	4009.9	4102.8	4489.5	6164.5	14596.9	26409.0	29784.9	29257.0	21653.7	20248.2
65°	3093.4	3100.8	3138.0	3519.1	4061.9	9492.1	24202.3	32474.9	32339.2	23620.5	20952.8
66°	2818.2	2820.1	2877.7	3286.7	3645.5	7729.7	22434.4	32679.4	32753.8	24092.7	20746.5
67.5°	2463.2	2455.7	2539.4	2954.0	3320.2	5573.3	19270.4	31850.3	32290.9	24455.2	20004.7
70°	1909.2	1899.9	2002.1	2478.0	3058.1	3718.0	12808.5	27347.8	28057.9	23713.4	17699.6
72.5°	1271.6	1279.0	1453.7	1955.7	2918.6	3273.7	7705.6	20804.1	21808.0	19582.7	13923.9
75°	741.7	754.8	953.7	1453.7	2533.8	3121.3	4361.2	14834.8	15476.2	13522.4	8674.1
77.5°	388.5	394.1	533.5	959.2	1942.7	2898.2	2905.6	9477.2	9778.3	6571.6	3433.6
80°	206.3	200.8	286.3	578.1	1336.6	2545.0	2357.2	5017.4	5216.4	1952.0	868.2
82.5°	78.1	85.5	152.4	379.2	790.1	1827.4	2030.0	2217.8	2149.0	429.4	364.4
85°	14.9	18.6	65.1	224.9	397.8	764.0	1496.5	1087.5	1007.6	161.7	210.1
87.5°	1.9	3.7	18.6	53.9	57.6	258.4	442.4	301.2	260.3	59.5	87.4
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°	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0
2.5°	6530.7	6480.5	6313.2	6147.7	5978.5	5826.1	5722.0	5552.8	5510.1	5448.7	5413.4
5°	6517.7	6400.5	6078.9	5727.6	5400.4	5047.2	4777.6	4517.4	4377.9	4307.3	4281.3
7.5°	6480.5	6294.6	5792.6	5242.4	4718.1	4190.2	3731.0	3381.5	3156.6	3002.3	2898.2
10°	6406.1	6149.6	5459.9	4703.3	3911.3	3214.2	2632.3	2189.9	1847.8	1740.0	1743.7
12.5°	6329.9	5987.8	5088.1	4104.7	3123.1	2243.8	1626.6	1277.1	1113.5	1059.6	1048.5
15°	6259.3	5833.5	4723.7	3524.7	2325.6	1453.7	1048.5	925.8	881.2	871.9	870.0
17.5°	6222.1	5690.4	4335.2	2861.0	1622.9	987.1	840.3	806.8	793.8	784.5	780.8
20°	6190.5	5565.9	3963.4	2240.1	1109.8	808.7	752.9	721.3	699.0	689.7	684.1
22.5°	6168.2	5437.6	3578.6	1734.4	849.6	717.6	667.4	626.5	594.9	583.7	576.3
25°	6134.7	5296.3	3190.0	1267.8	715.7	637.6	580.0	531.7	490.8	470.3	466.6
27.5°	6086.4	5136.4	2764.3	938.8	639.5	567.0	496.4	436.9	396.0	373.7	375.5
30°	6008.3	4969.1	2338.6	745.5	578.1	494.5	418.3	360.6	321.6	304.9	303.0
32.5°	5915.3	4766.5	1948.2	639.5	522.4	429.4	349.5	299.3	269.6	256.5	254.7
35°	5828.0	4562.0	1550.4	574.4	464.8	369.9	293.7	251.0	228.7	217.5	219.4
37.5°	5779.6	4379.8	1208.4	522.4	418.3	317.9	252.8	215.6	195.2	185.9	184.0
40°	5811.2	4231.1	961.1	475.9	366.2	273.3	217.5	185.9	165.5	152.4	152.4
42.5°	5960.0	4166.0	775.2	431.3	317.9	236.1	189.6	159.9	137.6	124.6	126.4
45°	6413.6	4234.8	648.8	390.4	273.3	204.5	163.6	132.0	111.5	102.2	100.4
47.5°	7166.5	4493.2	561.4	347.6	234.2	174.7	137.6	109.7	89.2	81.8	79.9
50°	8482.6	5026.7	496.4	304.9	198.9	148.7	113.4	87.4	70.6	63.2	63.2
52.5°	10293.3	6190.5	449.9	256.5	167.3	126.4	93.0	70.6	55.8	50.2	48.3
55°	12185.8	7417.4	425.7	215.6	139.4	104.1	74.4	55.8	42.8	37.2	35.3
57.5°	14005.7	8380.4	397.8	174.7	111.5	79.9	57.6	42.8	29.7	26.0	24.2
60°	15751.3	9159.3	338.3	139.4	87.4	57.6	42.8	29.7	20.4	16.7	16.7
62.5°	17312.9	9612.9	265.8	111.5	66.9	40.9	27.9	22.3	14.9	11.2	11.2
65°	17495.1	9023.6	200.8	85.5	48.3	26.0	16.7	16.7	11.2	7.4	7.4
66°	17128.8	8523.5	176.6	78.1	42.8	22.3	14.9	13.0	9.3	5.6	5.6
67.5°	16310.9	7670.2	152.4	66.9	35.3	16.7	11.2	11.2	7.4	3.7	3.7
70°	14093.1	6264.8	120.8	50.2	26.0	13.0	7.4	7.4	5.6	3.7	3.7
72.5°	10741.3	4677.2	98.5	37.2	18.6	9.3	5.6	5.6	5.6	3.7	3.7
75°	6478.6	2518.9	76.2	27.9	16.7	7.4	3.7	5.6	7.4	5.6	3.7
77.5°	2387.0	857.0	59.5	22.3	13.0	7.4	3.7	3.7	7.4	5.6	5.6
80°	585.6	223.1	42.8	18.6	13.0	7.4	3.7	3.7	7.4	7.4	7.4
82.5°	271.4	94.8	29.7	16.7	13.0	7.4	3.7	3.7	5.6	7.4	7.4
85°	156.2	44.6	24.2	18.6	13.0	7.4	3.7	3.7	5.6	7.4	7.4
87.5°	63.2	22.3	22.3	18.6	14.9	9.3	3.7	3.7	3.7	5.6	5.6
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)