

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: P455358

Luminaire Tested: **GALN-SA6C-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455358
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-SA6C-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA 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: 34120 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

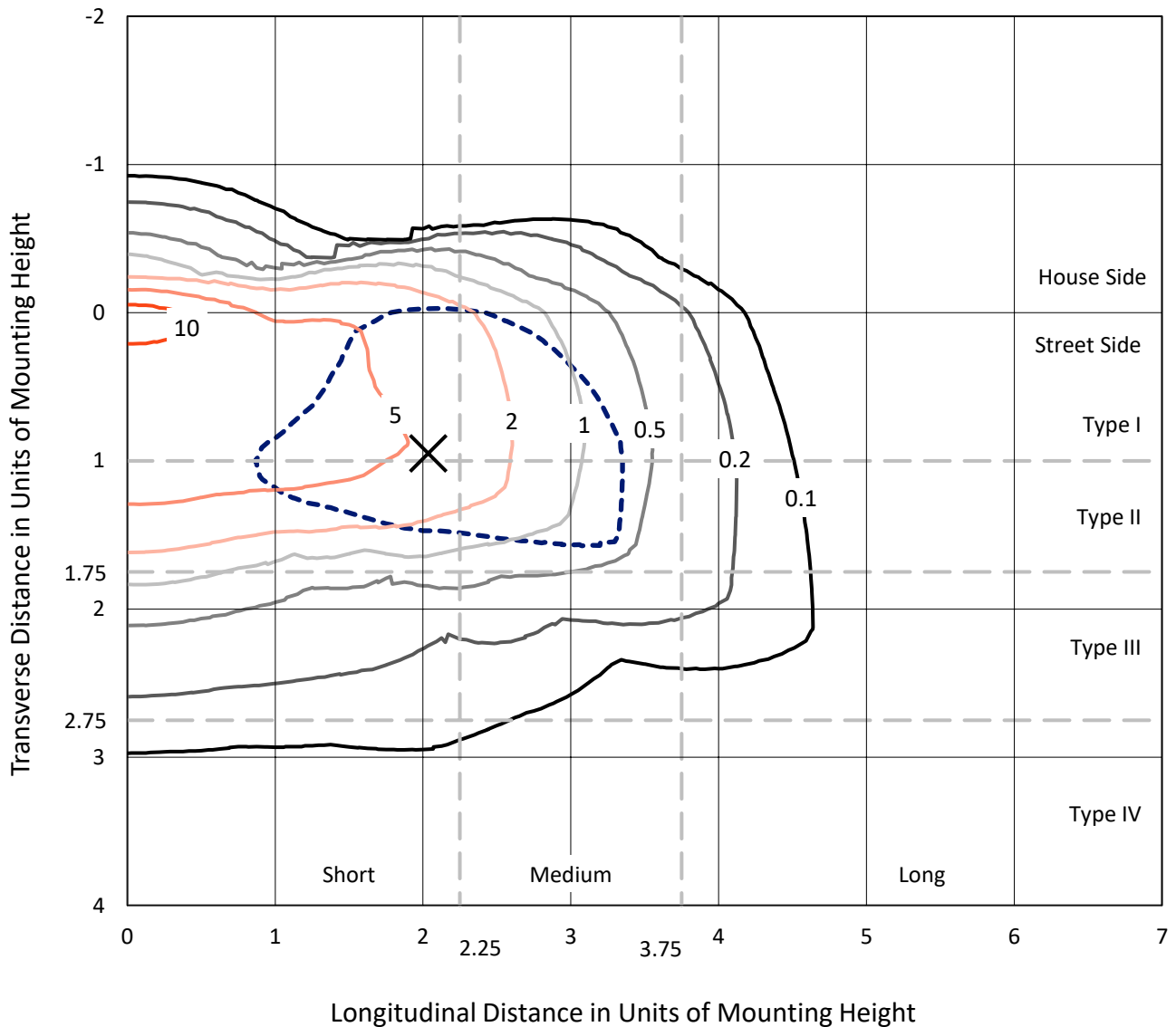
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

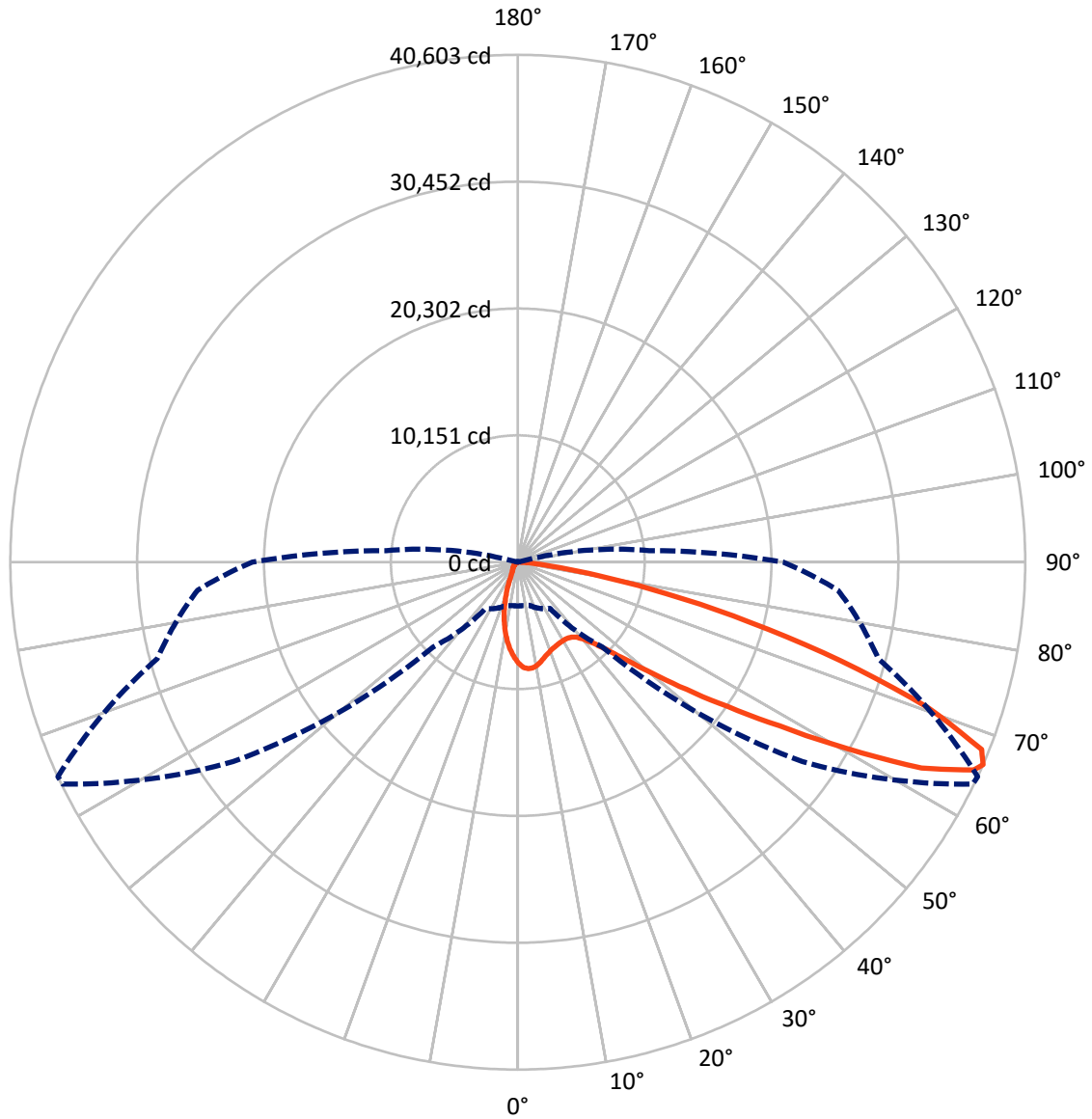
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	3528.5	0.0	3528.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30591.5	0.0	30591.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	34120.0	0.0	34120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.7	1.9
10°-20°	1441.8	4.2
20°-30°	2065.4	6.1
30°-40°	3016.7	8.8
40°-50°	5058.5	14.8
50°-60°	8441.8	24.7
60°-70°	8960.7	26.3
70°-80°	4058.2	11.9
80°-90°	415.2	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°	34120.0	100.0
0°-180°	34120.0	100.0

Coefficient of Utilization



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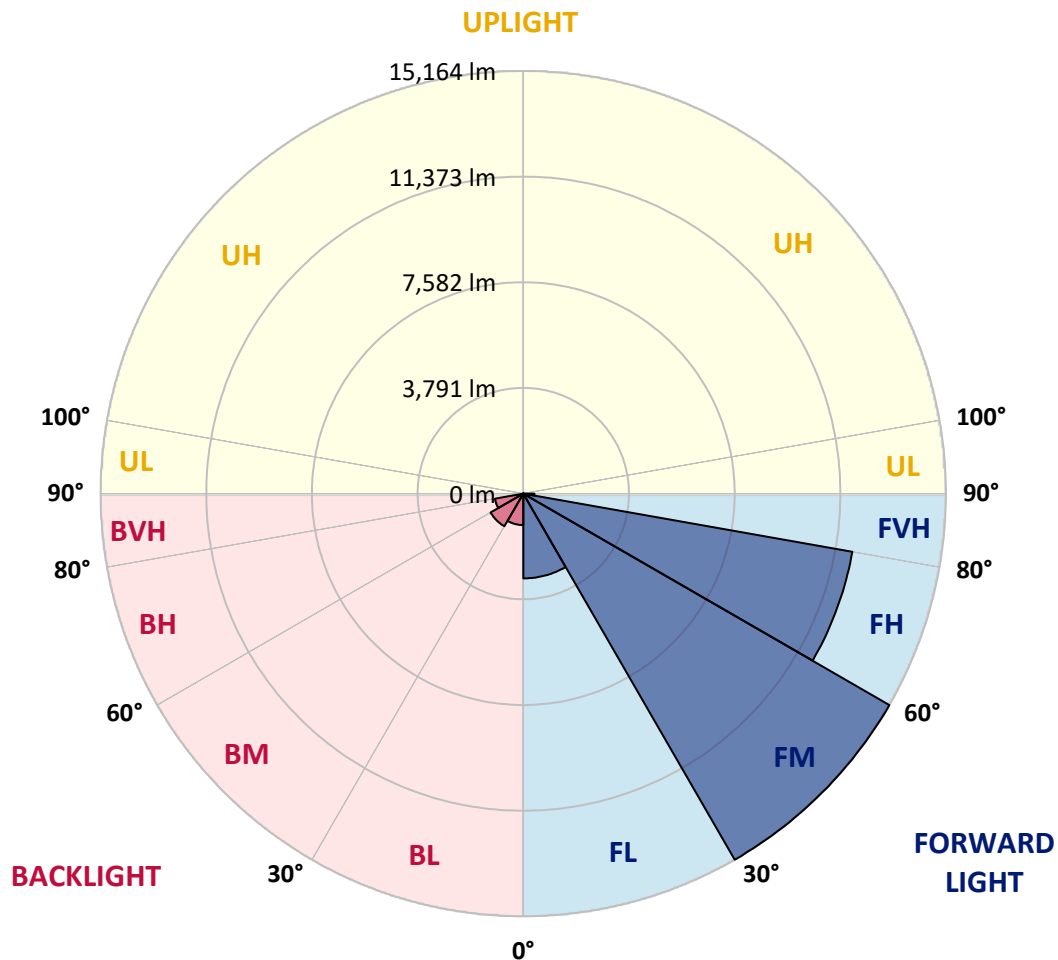
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3040.2	8.9			
FM (30°-60°)	15163.7	44.4			
FH (60°-80°)	11985.6	35.1			G4/12000
FVH (80°-90°)	402.0	1.2			G3/500
BL (0°-30°)	1128.7	3.3	B3/2500		
BM (30°-60°)	1353.2	4.0	B2/2500		
BH (60°-80°)	1033.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	13.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1
2.5°	8526.7	8535.9	8547.4	8563.5	8575.1	8540.5	8492.1	8436.8	8425.3	8307.7	8164.9
5°	8070.4	8084.2	8185.6	8240.9	8365.3	8478.3	8549.7	8558.9	8554.3	8443.7	8215.6
7.5°	7420.5	7459.7	7558.8	7655.6	7888.3	8102.6	8356.1	8533.6	8545.1	8515.1	8231.7
10°	6892.8	6918.1	6968.8	7160.1	7353.7	7680.9	8035.8	8370.0	8397.6	8517.4	8217.9
12.5°	6480.3	6517.1	6579.4	6726.8	6959.6	7268.4	7671.7	8121.1	8178.7	8473.7	8178.7
15°	6192.2	6210.6	6272.9	6418.0	6643.9	6929.6	7337.5	7860.7	7911.4	8416.0	8171.8
17.5°	6056.2	6077.0	6120.8	6236.0	6422.7	6687.7	7086.3	7651.0	7715.5	8379.2	8197.1
20°	6093.1	6111.5	6113.8	6173.8	6300.5	6524.0	6902.0	7455.1	7538.0	8356.1	8238.6
22.5°	6302.8	6305.1	6277.5	6249.8	6293.6	6454.9	6789.1	7330.6	7415.9	8351.5	8287.0
25°	6616.2	6623.1	6577.1	6480.3	6392.7	6475.7	6763.7	7250.0	7326.0	8340.0	8317.0
27.5°	7049.5	7047.2	7033.3	6872.0	6623.1	6567.8	6784.5	7206.2	7270.7	8307.7	8328.5
30°	7655.6	7637.1	7607.2	7425.1	7044.9	6791.4	6872.0	7178.5	7238.4	8261.6	8298.5
32.5°	8252.4	8321.6	8317.0	8144.1	7669.4	7190.0	7054.1	7215.4	7259.2	8231.7	8254.7
35°	8948.4	8946.1	9123.5	9059.0	8503.6	7699.3	7365.2	7337.5	7372.1	8252.4	8234.0
37.5°	9593.6	9653.6	9930.1	9996.9	9489.9	8418.3	7805.4	7600.3	7611.8	8393.0	8284.7
40°	10397.9	10513.1	10925.6	11149.2	10702.1	9485.3	8455.2	8081.9	8084.2	8738.7	8476.0
42.5°	11434.9	11617.0	12001.9	12375.2	12135.5	10748.2	9430.0	8844.7	8840.1	9347.1	8913.8
45°	12695.5	12822.3	13260.1	13852.4	13700.3	12511.1	10849.6	10026.9	9967.0	10344.9	9690.4
47.5°	13783.2	13956.1	14400.8	15076.1	15767.4	14663.6	12545.7	11651.6	11612.4	11932.7	11022.4
50°	14258.0	14410.1	14877.9	15825.0	17500.4	17488.9	15071.5	14022.9	13956.1	14128.9	13082.7
52.5°	13737.1	13880.0	14352.4	15532.4	18316.2	20931.8	18731.0	16998.0	16917.4	16696.1	15543.9
55°	11953.5	12071.0	12769.3	14124.3	18002.8	23227.1	23773.3	20673.7	20360.3	19500.7	18330.0
57.5°	9517.6	9457.7	9890.9	11464.9	16163.8	23996.8	28949.2	25252.7	24692.8	21925.0	20687.5
60°	6595.5	6779.8	6955.0	7992.0	12153.9	22662.5	32168.6	31009.4	30272.0	24310.2	22945.9
62.5°	4848.7	4970.8	5086.0	5565.4	7641.7	18095.0	32737.8	36922.7	36268.3	26842.9	25100.6
65°	3834.7	3843.9	3890.0	4362.4	5035.3	11766.8	30002.3	40257.4	40089.1	29281.0	25974.1
66°	3493.6	3495.9	3567.4	4074.4	4519.1	9582.1	27810.7	40510.9	40603.0	29866.4	25718.3
67.5°	3053.5	3044.2	3148.0	3661.9	4115.8	6908.9	23888.5	39483.1	40029.2	30315.7	24798.8
70°	2366.7	2355.2	2481.9	3071.9	3790.9	4609.0	15878.0	33901.5	34781.9	29396.2	21941.2
72.5°	1576.3	1585.5	1802.1	2424.3	3618.1	4058.2	9552.2	25789.7	27034.1	24275.6	17260.7
75°	919.5	935.6	1182.2	1802.1	3141.0	3869.3	5406.4	18389.9	19185.0	16763.0	10752.8
77.5°	481.6	488.6	661.4	1189.1	2408.2	3592.7	3601.9	11748.4	12121.7	8146.4	4256.4
80°	255.8	248.9	354.9	716.7	1656.9	3154.9	2922.1	6219.9	6466.4	2419.7	1076.2
82.5°	96.8	106.0	189.0	470.1	979.4	2265.3	2516.5	2749.3	2664.0	532.3	451.7
85°	18.4	23.0	80.7	278.8	493.2	947.2	1855.1	1348.1	1249.0	200.5	260.4
87.5°	2.3	4.6	23.0	66.8	71.4	320.3	548.5	373.3	322.6	73.7	108.3
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°	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1	8091.1
2.5°	8095.7	8033.5	7826.1	7621.0	7411.3	7222.3	7093.3	6883.6	6830.5	6754.5	6710.7
5°	8079.6	7934.4	7535.7	7100.2	6694.6	6256.7	5922.6	5599.9	5427.1	5339.5	5307.3
7.5°	8033.5	7803.0	7180.8	6498.7	5848.8	5194.3	4625.1	4191.9	3913.0	3721.8	3592.7
10°	7941.3	7623.3	6768.3	5830.4	4848.7	3984.5	3263.2	2714.7	2290.7	2157.0	2161.6
12.5°	7846.8	7422.8	6307.4	5088.3	3871.6	2781.5	2016.4	1583.2	1380.4	1313.6	1299.7
15°	7759.3	7231.5	5855.7	4369.3	2882.9	1802.1	1299.7	1147.6	1092.3	1080.8	1078.5
17.5°	7713.2	7054.1	5374.1	3546.6	2011.8	1223.7	1041.6	1000.2	984.0	972.5	967.9
20°	7674.0	6899.7	4913.2	2776.9	1375.8	1002.5	933.3	894.1	866.5	855.0	848.1
22.5°	7646.3	6740.7	4436.2	2150.1	1053.2	889.5	827.3	776.6	737.4	723.6	714.4
25°	7604.9	6565.5	3954.5	1571.7	887.2	790.4	719.0	659.1	608.4	583.0	578.4
27.5°	7544.9	6367.3	3426.8	1163.8	792.7	702.9	615.3	541.6	490.9	463.2	465.5
30°	7448.2	6159.9	2899.1	924.1	716.7	613.0	518.5	447.1	398.7	377.9	375.6
32.5°	7332.9	5908.7	2415.1	792.7	647.6	532.3	433.2	371.0	334.2	318.0	315.7
35°	7224.6	5655.3	1922.0	712.1	576.1	458.6	364.1	311.1	283.5	269.6	271.9
37.5°	7164.7	5429.4	1497.9	647.6	518.5	394.1	313.4	267.3	242.0	230.5	228.1
40°	7203.9	5245.0	1191.4	590.0	454.0	338.8	269.6	230.5	205.1	189.0	189.0
42.5°	7388.2	5164.4	961.0	534.6	394.1	292.7	235.1	198.2	170.5	154.4	156.7
45°	7950.5	5249.7	804.3	483.9	338.8	253.5	202.8	163.6	138.3	126.7	124.4
47.5°	8883.9	5570.0	696.0	430.9	290.4	216.6	170.5	136.0	110.6	101.4	99.1
50°	10515.4	6231.4	615.3	377.9	246.6	184.4	140.6	108.3	87.6	78.4	78.4
52.5°	12760.0	7674.0	557.7	318.0	207.4	156.7	115.2	87.6	69.1	62.2	59.9
55°	15106.0	9195.0	527.7	267.3	172.8	129.1	92.2	69.1	53.0	46.1	43.8
57.5°	17362.1	10388.7	493.2	216.6	138.3	99.1	71.4	53.0	36.9	32.3	30.0
60°	19526.1	11354.3	419.4	172.8	108.3	71.4	53.0	36.9	25.3	20.7	20.7
62.5°	21461.8	11916.6	329.5	138.3	83.0	50.7	34.6	27.7	18.4	13.8	13.8
65°	21687.7	11186.1	248.9	106.0	59.9	32.3	20.7	20.7	13.8	9.2	9.2
66°	21233.7	10566.1	218.9	96.8	53.0	27.7	18.4	16.1	11.5	6.9	6.9
67.5°	20219.7	9508.4	189.0	83.0	43.8	20.7	13.8	13.8	9.2	4.6	4.6
70°	17470.4	7766.2	149.8	62.2	32.3	16.1	9.2	9.2	6.9	4.6	4.6
72.5°	13315.4	5798.1	122.1	46.1	23.0	11.5	6.9	6.9	6.9	4.6	4.6
75°	8031.2	3122.6	94.5	34.6	20.7	9.2	4.6	6.9	9.2	6.9	4.6
77.5°	2959.0	1062.4	73.7	27.7	16.1	9.2	4.6	4.6	9.2	6.9	6.9
80°	725.9	276.5	53.0	23.0	16.1	9.2	4.6	4.6	9.2	9.2	9.2
82.5°	336.5	117.5	36.9	20.7	16.1	9.2	4.6	4.6	6.9	9.2	9.2
85°	193.6	55.3	30.0	23.0	16.1	9.2	4.6	4.6	6.9	9.2	9.2
87.5°	78.4	27.7	27.7	23.0	18.4	11.5	4.6	4.6	4.6	6.9	6.9
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)