

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: P458215

Luminaire Tested: **GALN-SA9C-760-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46793 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

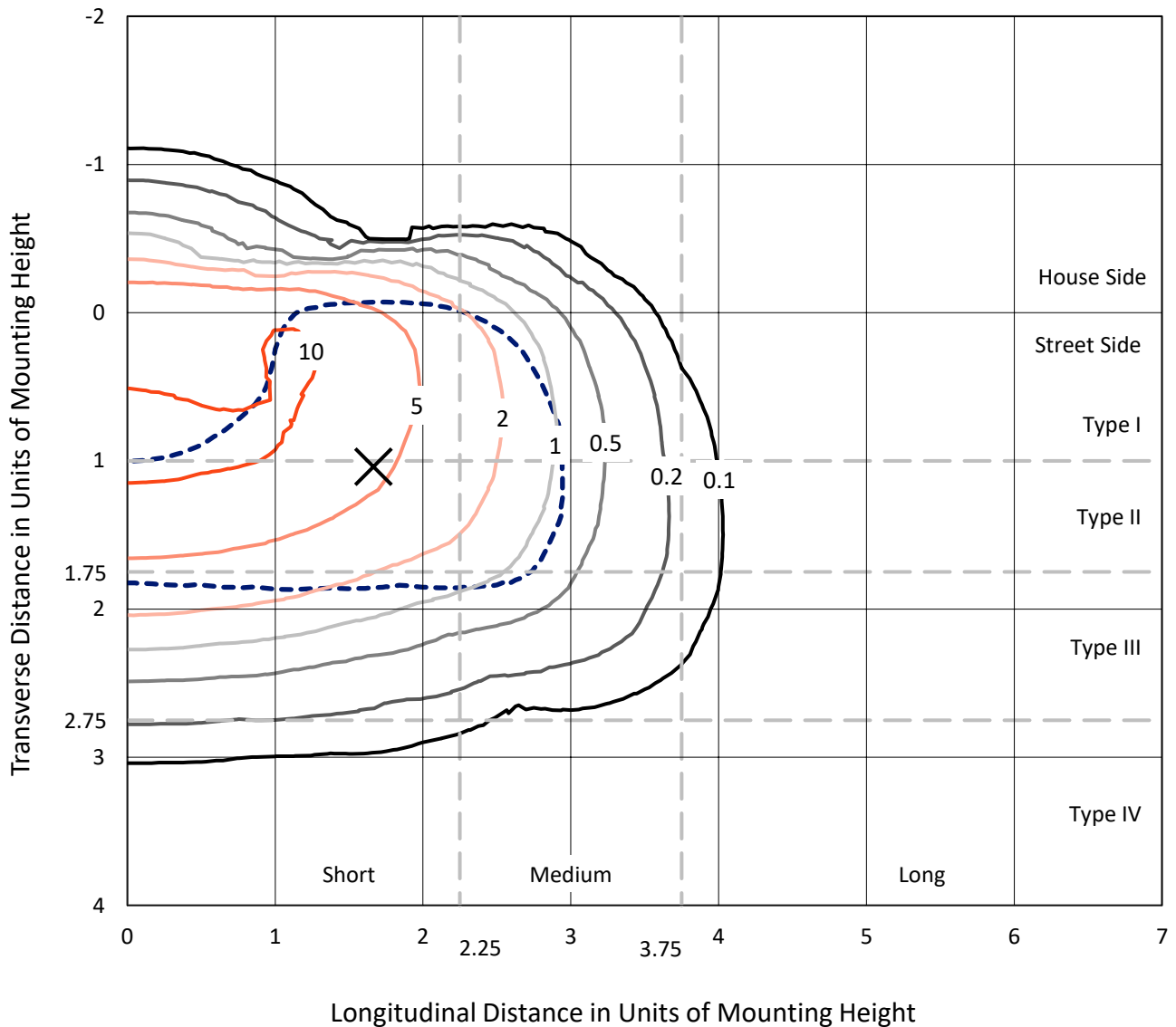
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

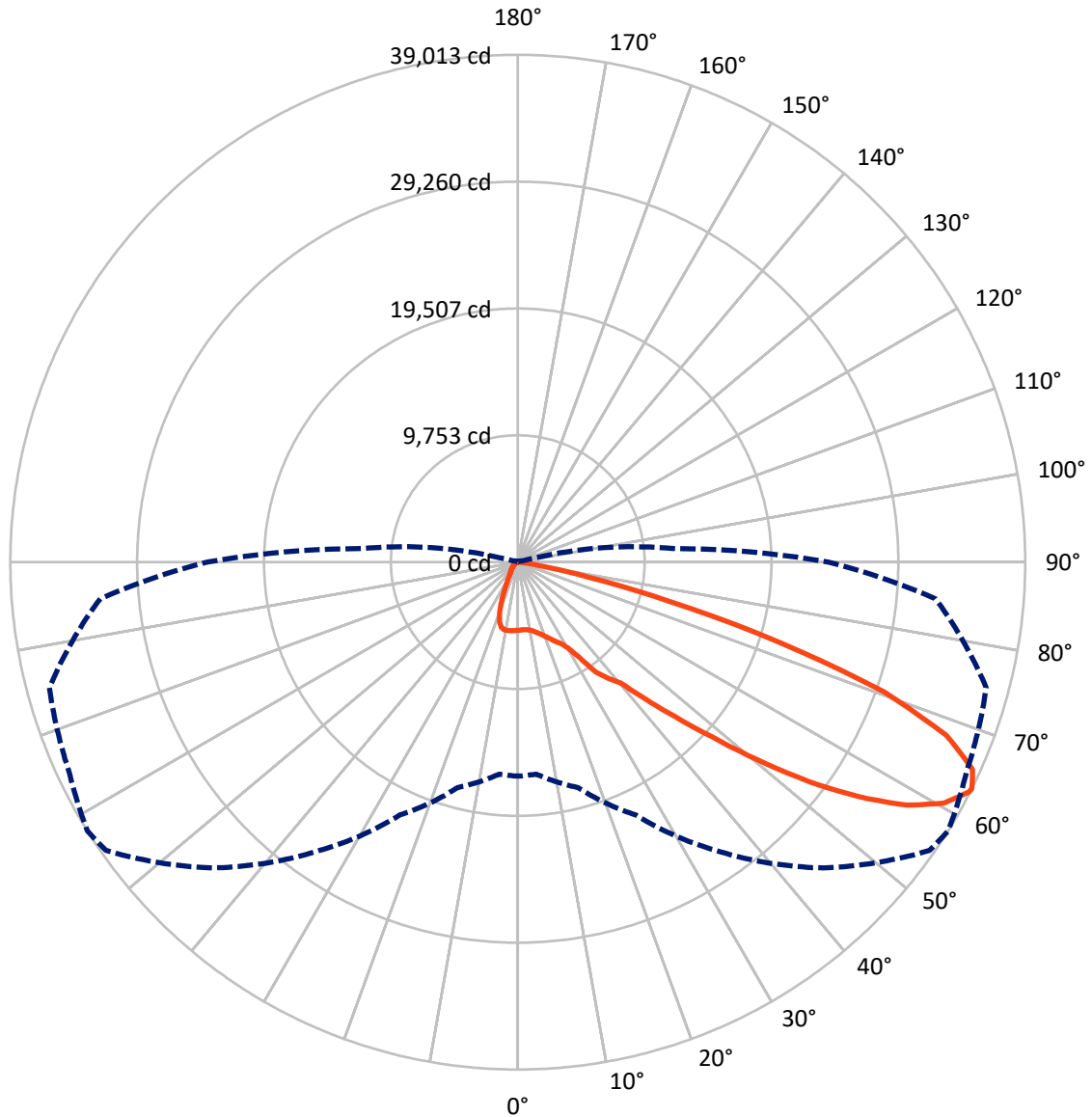
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4845.1	0.0	4845.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	41947.9	0.0	41947.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	46793.0	0.0	46793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.4	1.0
10°-20°	1335.7	2.9
20°-30°	2318.2	5.0
30°-40°	4259.9	9.1
40°-50°	8019.2	17.1
50°-60°	13716.2	29.3
60°-70°	13133.2	28.1
70°-80°	3349.0	7.2
80°-90°	171.2	0.4
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°	46793.0	100.0
0°-180°	46793.0	100.0

Coefficient of Utilization



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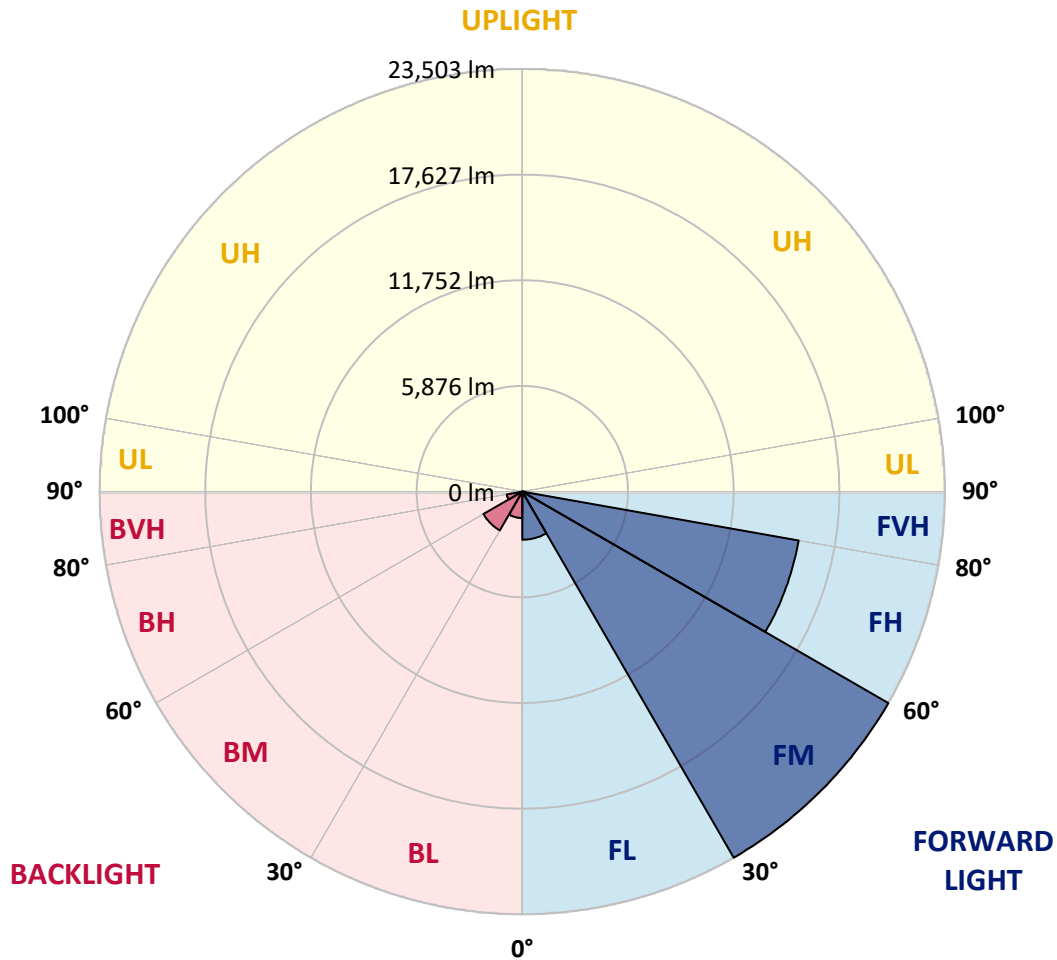
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2674.9	5.7			
FM (30°-60°)	23503.2	50.2			
FH (60°-80°)	15605.2	33.3			G5
FVH (80°-90°)	164.6	0.4			G2/225
BL (0°-30°)	1469.4	3.1	B3/2500		
BM (30°-60°)	2492.0	5.3	B2/2500		
BH (60°-80°)	877.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7
2.5°	5108.3	5125.9	5143.5	5150.6	5175.2	5199.9	5217.5	5214.0	5242.2	5256.3	5256.3
5°	4904.0	4904.0	4949.8	4992.0	5062.5	5133.0	5199.9	5214.0	5266.8	5316.2	5333.8
7.5°	4731.3	4741.9	4777.1	4854.7	4949.8	5073.1	5207.0	5238.7	5330.3	5439.5	5485.3
10°	4650.3	4657.4	4703.2	4784.2	4904.0	5073.1	5259.8	5319.7	5460.6	5633.2	5696.6
12.5°	4632.7	4643.3	4689.1	4780.7	4918.1	5122.4	5376.1	5439.5	5643.8	5865.7	5960.9
15°	4664.4	4671.5	4717.3	4815.9	4967.4	5210.5	5531.1	5619.1	5862.2	6119.4	6242.7
17.5°	4777.1	4770.1	4801.8	4882.8	5051.9	5319.7	5717.8	5823.5	6108.8	6461.1	6542.2
20°	5256.3	5210.5	5182.3	5111.8	5178.8	5474.7	5943.3	6098.3	6450.6	6809.9	6866.3
22.5°	6288.5	6186.3	5985.5	5710.7	5499.4	5686.1	6214.5	6394.2	6848.7	7201.0	7201.0
25°	7602.6	7472.2	7271.4	6672.5	6154.6	6034.8	6521.0	6746.5	7282.0	7637.8	7521.5
27.5°	9247.8	9145.6	8754.6	8057.0	7264.4	6644.3	6876.8	7084.7	7666.0	8095.8	7852.7
30°	10586.5	10537.2	10216.6	9593.0	8719.4	7813.9	7539.2	7676.6	8176.8	8673.6	8423.4
32.5°	11717.4	11717.4	11389.8	10808.5	9991.1	9187.9	8663.0	8761.6	9240.8	9815.0	9350.0
35°	12961.0	12918.7	12654.5	12101.4	11185.4	10477.3	10262.4	10396.3	10829.6	11255.9	10110.9
37.5°	14268.0	14253.9	13979.1	13443.7	12696.8	11805.5	11301.7	11336.9	11558.9	11819.6	11002.2
40°	15687.8	15708.9	15349.6	15018.4	14313.8	13401.4	12436.1	12214.1	12422.0	13158.3	12647.5
42.5°	17364.7	17315.4	17160.4	16709.4	16142.3	15596.2	14437.1	14356.1	14539.3	15328.4	14775.3
45°	19312.9	19383.4	19115.6	18865.5	18485.0	18030.6	17061.7	16920.8	17121.6	18347.6	17562.0
47.5°	21264.7	21197.7	21370.3	21324.5	21528.9	21190.7	20334.6	20045.7	20528.3	21690.9	20535.4
50°	22751.3	22825.3	23184.7	23709.6	24586.8	24777.1	23956.2	23857.6	24072.5	24819.3	23195.2
52.5°	23716.6	23963.2	24526.9	25876.2	27458.0	28687.5	28064.0	28011.1	27923.1	28123.9	25738.8
55°	24347.3	24597.4	25333.7	27320.6	30043.9	32041.4	32073.1	31847.7	31266.4	31121.9	28116.8
57.5°	23959.7	24009.0	25058.9	27715.2	31477.7	34433.5	35469.3	35243.8	34169.3	33623.2	30216.5
60°	21535.9	21638.1	23100.1	26221.5	30854.2	35215.6	37720.4	37618.3	36441.6	35825.1	31851.2
62.5°	17241.4	17537.3	19041.7	22522.4	27954.8	33898.0	38632.9	38921.8	38005.8	37156.8	32365.5
63°	16452.3	16357.2	17946.0	21444.3	27186.8	33246.3	38647.0	39013.4	38076.3	37283.6	32224.6
65°	12178.9	12464.3	13496.5	16910.3	22624.5	30213.0	37776.8	38425.0	37815.6	36723.4	30663.9
67.5°	6838.1	6824.0	7965.4	11065.7	15835.8	23699.0	34158.7	35529.2	35402.3	32953.9	25418.2
70°	3346.8	3399.7	3868.2	5735.4	9184.4	16350.1	28384.6	29864.2	29910.0	25883.3	17576.1
72.5°	1514.9	1539.5	1874.2	2793.7	4720.8	8705.3	19559.5	20972.2	20711.5	16494.5	9705.8
75°	799.7	852.6	1032.2	1405.7	2275.8	3589.9	10639.4	12006.3	11460.2	7535.6	3572.3
77.5°	591.9	609.5	701.1	894.8	1218.9	1398.6	4590.4	5460.6	5115.4	2726.8	1183.7
80°	433.3	447.4	521.4	634.1	768.0	711.6	1729.8	1983.4	1779.1	926.5	362.9
82.5°	264.2	267.7	380.5	472.1	482.6	398.1	570.7	613.0	641.2	521.4	197.3
85°	95.1	119.8	257.2	341.7	285.4	200.8	239.6	264.2	288.9	331.2	116.3
87.5°	10.6	14.1	123.3	165.6	81.0	74.0	88.1	98.6	105.7	123.3	56.4
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°	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7	5238.7
2.5°	5270.4	5284.5	5273.9	5256.3	5252.7	5242.2	5221.0	5221.0	5221.0	5228.1	5221.0
5°	5347.9	5358.4	5333.8	5298.5	5259.8	5210.5	5157.6	5125.9	5122.4	5115.4	5097.7
7.5°	5495.8	5509.9	5453.6	5369.0	5263.3	5143.5	5030.8	4925.1	4875.8	4837.0	4837.0
10°	5710.7	5724.8	5612.1	5460.6	5249.2	5006.1	4738.4	4495.3	4305.1	4217.0	4195.9
12.5°	5967.9	5975.0	5788.2	5524.0	5175.2	4706.7	4136.0	3604.0	3234.1	3065.0	3047.4
15°	6249.7	6200.4	5953.8	5548.7	4963.9	4090.2	3103.7	2452.0	2068.0	1955.2	1997.5
17.5°	6535.1	6443.5	6080.6	5509.9	4488.3	3103.7	2085.6	1673.4	1553.6	1521.9	1521.9
20°	6802.9	6676.0	6172.2	5340.8	3663.9	2138.4	1546.6	1447.9	1426.8	1405.7	1409.2
22.5°	7070.6	6876.8	6253.3	4963.9	2730.3	1529.0	1384.5	1352.8	1324.6	1296.5	1292.9
25°	7331.3	7063.6	6285.0	4266.3	1860.1	1314.1	1264.7	1222.5	1166.1	1134.4	1127.4
27.5°	7602.6	7289.0	6263.8	3385.6	1356.3	1176.7	1127.4	1067.5	1000.5	944.2	944.2
30°	8124.0	7718.8	6189.9	2434.4	1141.4	1035.8	972.3	877.2	803.2	746.9	743.3
32.5°	8835.6	8279.0	5936.2	1712.2	1014.6	912.4	817.3	711.6	634.1	591.9	591.9
35°	9469.7	8842.7	5460.6	1261.2	912.4	792.7	676.4	574.2	514.4	486.2	475.6
37.5°	10435.0	9667.0	4805.3	1025.2	813.8	687.0	567.2	472.1	422.8	401.6	401.6
40°	11883.0	10674.6	4002.1	898.4	718.7	584.8	472.1	398.1	359.3	334.7	334.7
42.5°	13679.7	11907.6	3188.3	806.8	630.6	503.8	394.6	338.2	303.0	285.4	281.8
45°	15941.4	13207.6	2455.5	722.2	560.2	429.8	334.7	285.4	250.1	239.6	243.1
47.5°	18301.8	14352.6	1902.4	648.2	486.2	362.9	285.4	246.6	221.9	207.9	207.9
50°	20317.0	15141.7	1444.4	563.7	429.8	306.5	250.1	221.9	200.8	193.8	190.2
52.5°	22001.0	15370.7	1106.2	489.7	377.0	264.2	221.9	200.8	183.2	172.6	172.6
55°	23434.8	15169.9	866.7	412.2	317.1	229.0	197.3	179.7	158.5	148.0	144.4
57.5°	24273.3	14525.2	662.3	341.7	257.2	190.2	172.6	151.5	126.8	109.2	109.2
60°	24696.0	13588.1	507.3	281.8	197.3	151.5	140.9	112.7	88.1	74.0	70.5
62.5°	24188.7	12344.5	384.0	221.9	148.0	112.7	95.1	81.0	56.4	42.3	42.3
63°	23875.2	11985.1	369.9	211.4	137.4	105.7	88.1	74.0	49.3	38.8	35.2
65°	21764.9	10417.4	303.0	169.1	109.2	74.0	59.9	52.8	35.2	17.6	14.1
67.5°	17283.7	7969.0	239.6	126.8	77.5	52.8	35.2	31.7	10.6	0.0	0.0
70°	11685.7	5147.1	186.7	91.6	52.8	31.7	17.6	14.1	3.5	0.0	0.0
72.5°	6094.7	2638.7	144.4	66.9	31.7	21.1	10.6	3.5	0.0	0.0	0.0
75°	2156.1	898.4	105.7	42.3	21.1	10.6	3.5	0.0	0.0	0.0	0.0
77.5°	651.7	334.7	66.9	31.7	14.1	7.0	0.0	0.0	0.0	0.0	0.0
80°	229.0	123.3	38.8	21.1	10.6	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	112.7	59.9	24.7	17.6	10.6	3.5	0.0	0.0	0.0	0.0	0.0
85°	63.4	38.8	21.1	17.6	10.6	7.0	0.0	0.0	0.0	0.0	0.0
87.5°	45.8	28.2	21.1	17.6	14.1	7.0	3.5	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)