

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: P456257

Luminaire Tested: **GALN-SA7C-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456257
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-SA7C-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 36498 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

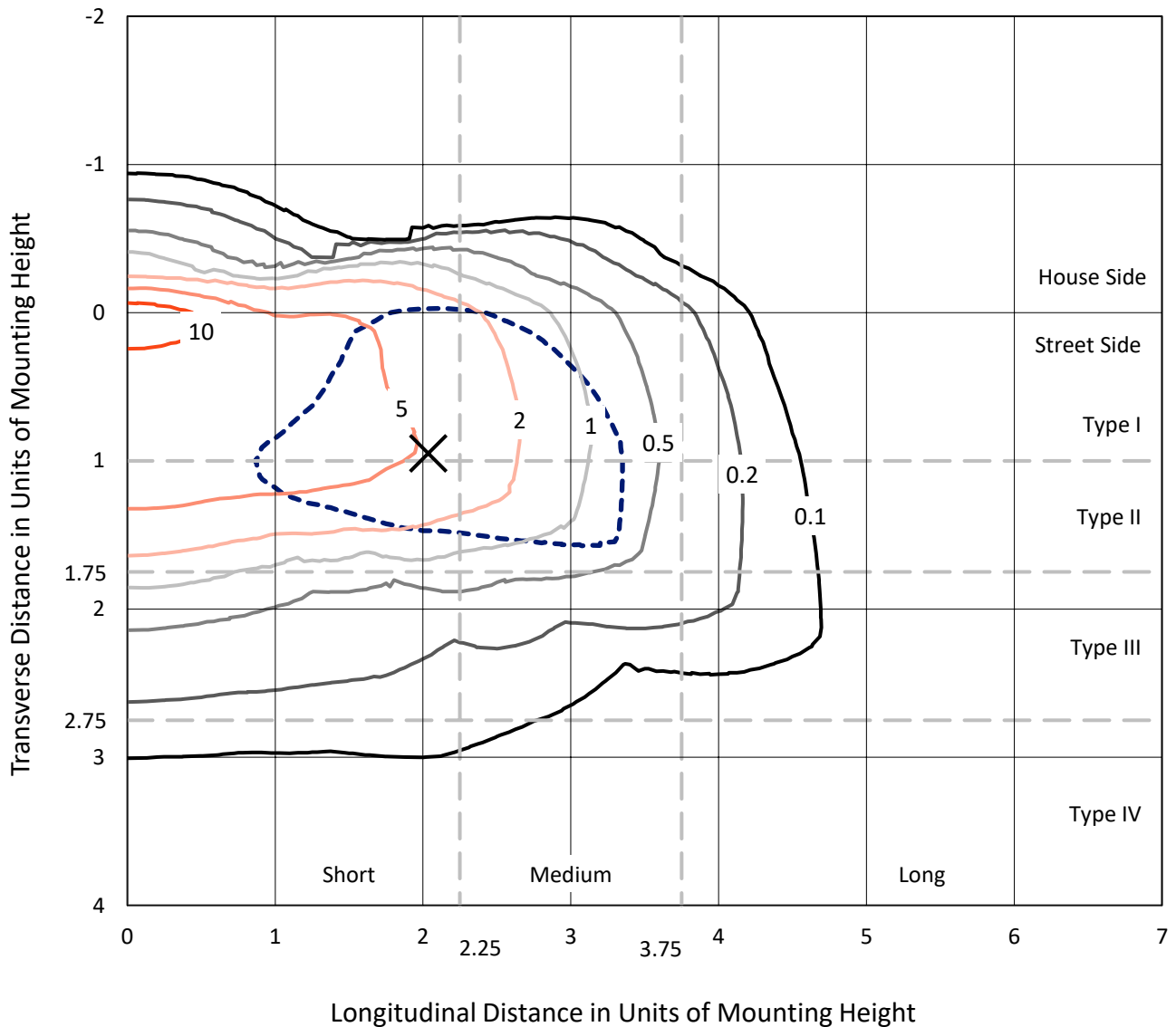
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456257
 CATALOG NUMBER: GALN-SA7C-730-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

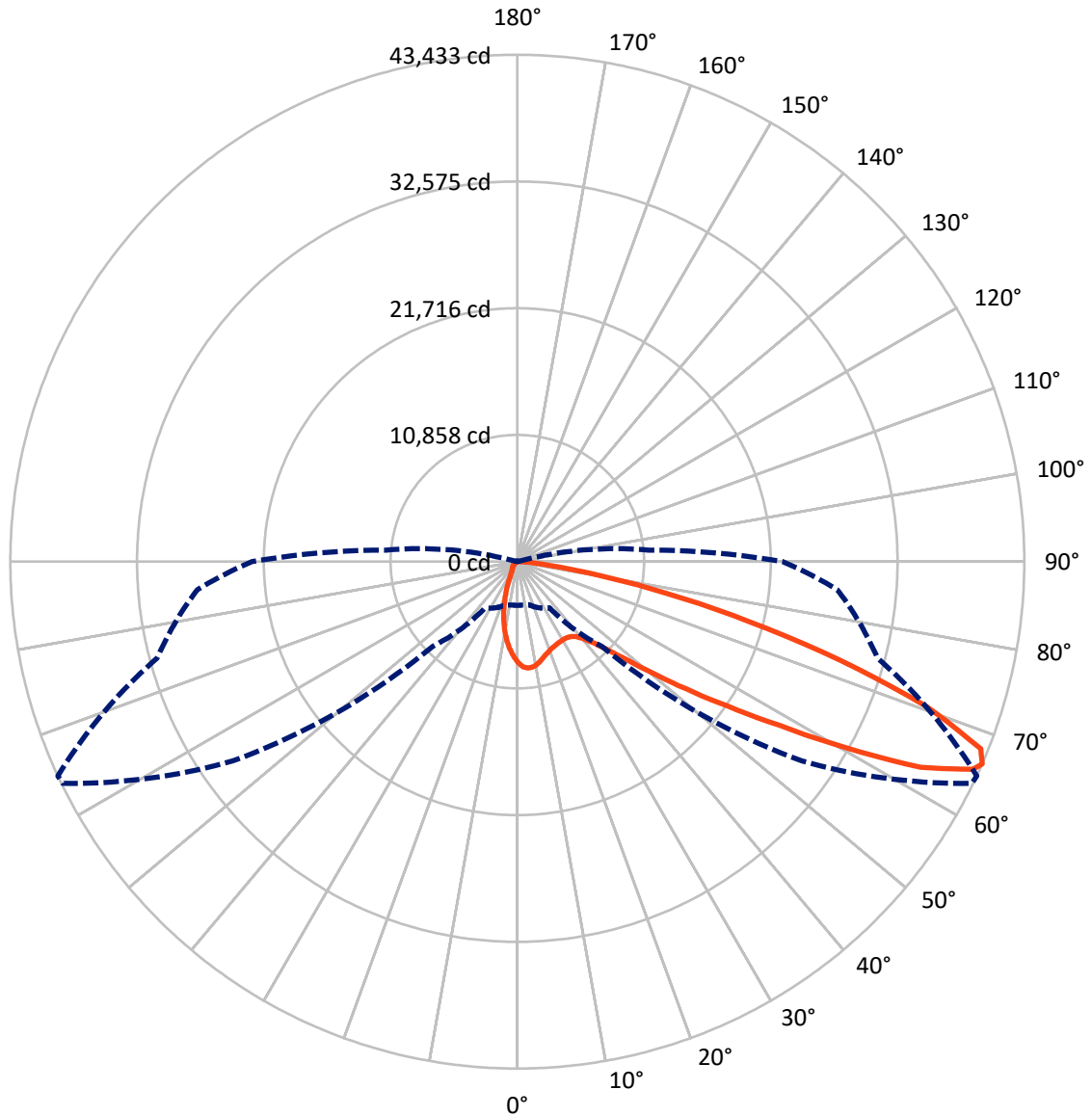
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

REPORT NUMBER: P456257
CATALOG NUMBER: GALN-SA7C-730-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456257
 CATALOG NUMBER: GALN-SA7C-730-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3774.4	0.0	3774.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	32723.6	0.0	32723.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	36498.0	0.0	36498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.8	1.9
10°-20°	1542.3	4.2
20°-30°	2209.3	6.1
30°-40°	3226.9	8.8
40°-50°	5411.0	14.8
50°-60°	9030.1	24.7
60°-70°	9585.2	26.3
70°-80°	4341.1	11.9
80°-90°	444.2	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°	36498.0	100.0
0°-180°	36498.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456257

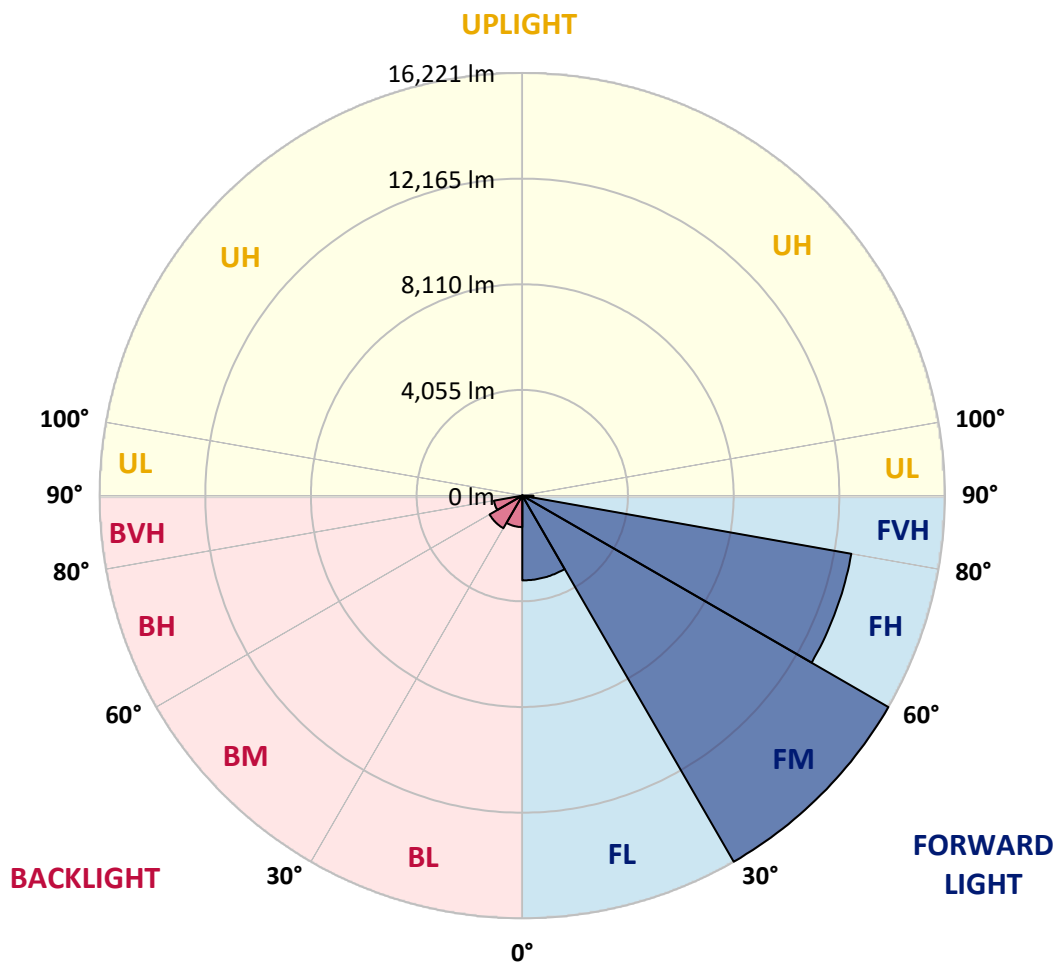
CATALOG NUMBER: GALN-SA7C-730-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.1	8.9			
FM (30°-60°)	16220.5	44.4			
FH (60°-80°)	12820.9	35.1			G5
FVH (80°-90°)	430.0	1.2			G3/500
BL (0°-30°)	1207.4	3.3	B3/2500		
BM (30°-60°)	1447.5	4.0	B2/2500		
BH (60°-80°)	1105.4	3.0	B3/2500		G3/2500
BVH (80°-90°)	14.1	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-G5

Type II Short





REPORT NUMBER: P456257

CATALOG NUMBER: GALN-SA7C-730-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0
2.5°	9120.9	9130.8	9143.1	9160.4	9172.7	9135.7	9084.0	9024.8	9012.5	8886.7	8733.9
5°	8632.8	8647.6	8756.1	8815.3	8948.4	9069.2	9145.6	9155.4	9150.5	9032.2	8788.1
7.5°	7937.7	7979.6	8085.6	8189.1	8438.1	8667.3	8938.5	9128.3	9140.6	9108.6	8805.4
10°	7373.2	7400.3	7454.5	7659.1	7866.2	8216.2	8595.9	8953.3	8982.9	9111.1	8790.6
12.5°	6931.9	6971.3	7037.9	7195.7	7444.6	7775.0	8206.4	8687.1	8748.7	9064.2	8748.7
15°	6623.8	6643.5	6710.0	6865.3	7106.9	7412.6	7848.9	8408.5	8462.7	9002.6	8741.3
17.5°	6478.3	6500.5	6547.3	6670.6	6870.3	7153.8	7580.2	8184.2	8253.2	8963.2	8768.4
20°	6517.8	6537.5	6540.0	6604.0	6739.6	6978.7	7383.0	7974.6	8063.4	8938.5	8812.8
22.5°	6742.1	6744.6	6715.0	6685.4	6732.2	6904.8	7262.2	7841.5	7932.7	8933.6	8864.6
25°	7077.3	7084.7	7035.4	6931.9	6838.2	6927.0	7235.1	7755.3	7836.6	8921.3	8896.6
27.5°	7540.8	7538.3	7523.5	7351.0	7084.7	7025.6	7257.3	7708.4	7777.4	8886.7	8908.9
30°	8189.1	8169.4	8137.3	7942.6	7535.9	7264.7	7351.0	7678.8	7742.9	8837.4	8876.9
32.5°	8827.6	8901.5	8896.6	8711.7	8203.9	7691.2	7545.7	7718.3	7765.1	8805.4	8830.0
35°	9572.0	9569.6	9759.4	9690.4	9096.3	8236.0	7878.5	7848.9	7885.9	8827.6	8807.9
37.5°	10262.3	10326.4	10622.2	10693.7	10151.3	9005.1	8349.3	8130.0	8142.3	8978.0	8862.1
40°	11122.6	11245.9	11687.1	11926.2	11448.0	10146.4	9044.5	8645.2	8647.6	9347.7	9066.7
42.5°	12231.9	12426.6	12838.3	13237.7	12981.3	11497.3	10087.3	9461.1	9456.2	9998.5	9535.1
45°	13580.3	13715.9	14184.3	14817.8	14655.1	13383.1	11605.8	10725.7	10661.6	11065.9	10365.8
47.5°	14743.9	14928.7	15404.5	16126.8	16866.3	15685.5	13420.1	12463.6	12421.7	12764.4	11790.6
50°	15251.7	15414.4	15914.8	16928.0	18720.1	18707.8	16121.9	15000.2	14928.7	15113.6	13994.5
52.5°	14694.6	14847.4	15352.7	16614.9	19592.7	22390.6	20036.5	18182.7	18096.4	17859.8	16627.2
55°	12786.6	12912.3	13659.2	15108.7	19257.5	24845.9	25430.1	22114.6	21779.3	20859.8	19607.5
57.5°	10180.9	10116.8	10580.3	12264.0	17290.3	25669.3	30966.8	27012.7	26413.7	23453.1	22129.3
60°	7055.2	7252.4	7439.7	8549.0	13001.0	24241.9	34410.6	33170.6	32381.8	26004.5	24545.2
62.5°	5186.6	5317.3	5440.5	5953.3	8174.3	19356.1	35019.4	39496.1	38796.0	28713.7	26850.0
65°	4102.0	4111.8	4161.1	4666.5	5386.3	12586.9	32093.3	43063.1	42883.2	31321.8	27784.3
66°	3737.1	3739.6	3816.0	4358.3	4834.1	10250.0	29749.0	43334.3	43432.9	31947.9	27510.7
67.5°	3266.3	3256.4	3367.3	3917.1	4402.7	7390.4	25553.4	42234.8	42819.1	32428.6	26527.1
70°	2531.7	2519.3	2654.9	3286.0	4055.1	4930.2	16984.6	36264.3	37206.0	31445.0	23470.4
72.5°	1686.1	1696.0	1927.7	2593.3	3870.2	4341.1	10217.9	27587.1	28918.3	25967.5	18463.7
75°	983.6	1000.8	1264.6	1927.7	3360.0	4138.9	5783.2	19671.6	20522.1	17931.3	11502.2
77.5°	515.2	522.6	707.5	1272.0	2576.0	3843.1	3853.0	12567.2	12966.5	8714.2	4553.1
80°	273.6	266.2	379.6	766.7	1772.4	3374.7	3125.8	6653.3	6917.1	2588.4	1151.2
82.5°	103.5	113.4	202.1	502.9	1047.7	2423.2	2691.9	2940.9	2849.7	569.4	483.2
85°	19.7	24.7	86.3	298.3	527.5	1013.2	1984.4	1442.1	1336.1	214.5	278.6
87.5°	2.5	4.9	24.7	71.5	76.4	342.7	586.7	399.3	345.1	78.9	115.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456257
 CATALOG NUMBER: GALN-SA7C-730-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0	8655.0
2.5°	8660.0	8593.4	8371.5	8152.1	7927.8	7725.7	7587.6	7363.3	7306.6	7225.3	7178.4
5°	8642.7	8487.4	8060.9	7595.0	7161.2	6692.8	6335.3	5990.2	5805.3	5711.7	5677.2
7.5°	8593.4	8346.9	7681.3	6951.6	6256.5	5556.4	4947.5	4484.0	4185.8	3981.2	3843.1
10°	8494.8	8154.6	7240.0	6236.7	5186.6	4262.2	3490.6	2903.9	2450.3	2307.3	2312.3
12.5°	8393.7	7940.1	6747.0	5443.0	4141.4	2975.4	2157.0	1693.5	1476.6	1405.1	1390.3
15°	8300.0	7735.5	6263.9	4673.9	3083.9	1927.7	1390.3	1227.6	1168.5	1156.1	1153.7
17.5°	8250.7	7545.7	5748.7	3793.8	2152.0	1309.0	1114.2	1069.9	1052.6	1040.3	1035.3
20°	8208.8	7380.6	5255.6	2970.5	1471.7	1072.3	998.4	956.5	926.9	914.6	907.2
22.5°	8179.3	7210.5	4745.3	2300.0	1126.6	951.5	885.0	830.7	788.8	774.0	764.2
25°	8134.9	7023.1	4230.1	1681.2	949.1	845.5	769.1	705.0	650.8	623.7	618.7
27.5°	8070.8	6811.1	3665.6	1244.9	848.0	751.9	658.2	579.3	525.1	495.5	498.0
30°	7967.3	6589.3	3101.1	988.5	766.7	655.7	554.7	478.2	426.5	404.3	401.8
32.5°	7844.0	6320.6	2583.4	848.0	692.7	569.4	463.4	396.9	357.4	340.2	337.7
35°	7728.1	6049.4	2055.9	761.7	616.3	490.6	389.5	332.8	303.2	288.4	290.9
37.5°	7664.0	5807.8	1602.3	692.7	554.7	421.5	335.3	286.0	258.8	246.5	244.0
40°	7706.0	5610.6	1274.5	631.1	485.6	362.4	288.4	246.5	219.4	202.1	202.1
42.5°	7903.2	5524.3	1028.0	571.9	421.5	313.1	251.4	212.0	182.4	165.2	167.6
45°	8504.6	5615.5	860.3	517.7	362.4	271.2	216.9	175.0	147.9	135.6	133.1
47.5°	9503.0	5958.2	744.5	461.0	310.6	231.7	182.4	145.4	118.3	108.5	106.0
50°	11248.3	6665.7	658.2	404.3	263.8	197.2	150.4	115.9	93.7	83.8	83.8
52.5°	13649.3	8208.8	596.6	340.2	221.9	167.6	123.3	93.7	74.0	66.6	64.1
55°	16158.8	9835.8	564.5	286.0	184.9	138.0	98.6	74.0	56.7	49.3	46.8
57.5°	18572.2	11112.7	527.5	231.7	147.9	106.0	76.4	56.7	39.4	34.5	32.0
60°	20886.9	12145.6	448.7	184.9	115.9	76.4	56.7	39.4	27.1	22.2	22.2
62.5°	22957.6	12747.1	352.5	147.9	88.7	54.2	37.0	29.6	19.7	14.8	14.8
65°	23199.2	11965.7	266.2	113.4	64.1	34.5	22.2	22.2	14.8	9.9	9.9
66°	22713.6	11302.6	234.2	103.5	56.7	29.6	19.7	17.3	12.3	7.4	7.4
67.5°	21628.9	10171.1	202.1	88.7	46.8	22.2	14.8	14.8	9.9	4.9	4.9
70°	18688.0	8307.4	160.2	66.6	34.5	17.3	9.9	9.9	7.4	4.9	4.9
72.5°	14243.4	6202.2	130.7	49.3	24.7	12.3	7.4	7.4	7.4	4.9	4.9
75°	8590.9	3340.2	101.1	37.0	22.2	9.9	4.9	7.4	9.9	7.4	4.9
77.5°	3165.2	1136.4	78.9	29.6	17.3	9.9	4.9	4.9	9.9	7.4	7.4
80°	776.5	295.8	56.7	24.7	17.3	9.9	4.9	4.9	9.9	9.9	9.9
82.5°	359.9	125.7	39.4	22.2	17.3	9.9	4.9	4.9	7.4	9.9	9.9
85°	207.1	59.2	32.0	24.7	17.3	9.9	4.9	4.9	7.4	9.9	9.9
87.5°	83.8	29.6	29.6	24.7	19.7	12.3	4.9	4.9	4.9	7.4	7.4
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)