

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: P455835

Luminaire Tested: **GALN-SA7A-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25502 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

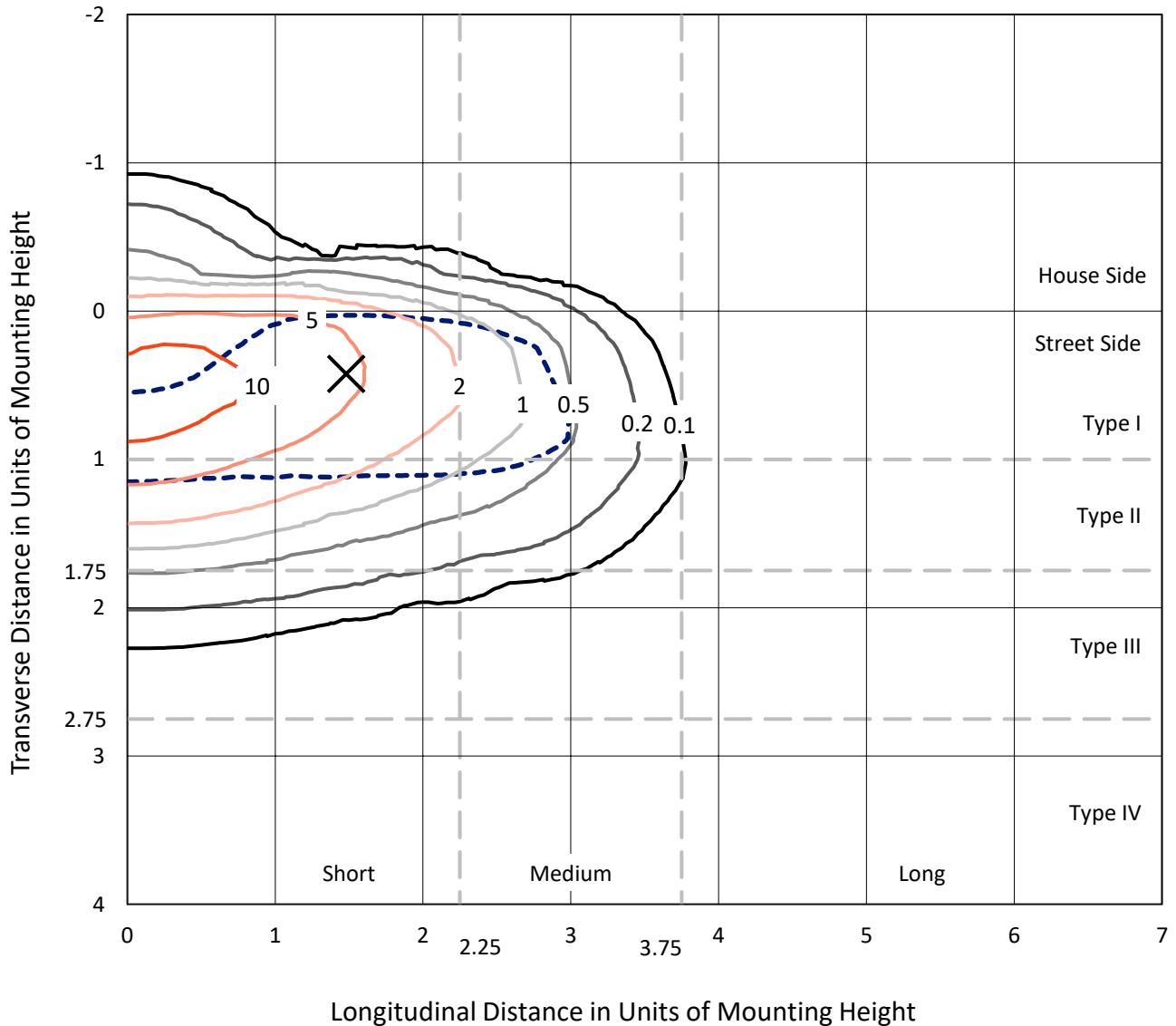
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455835
 CATALOG NUMBER: GALN-SA7A-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

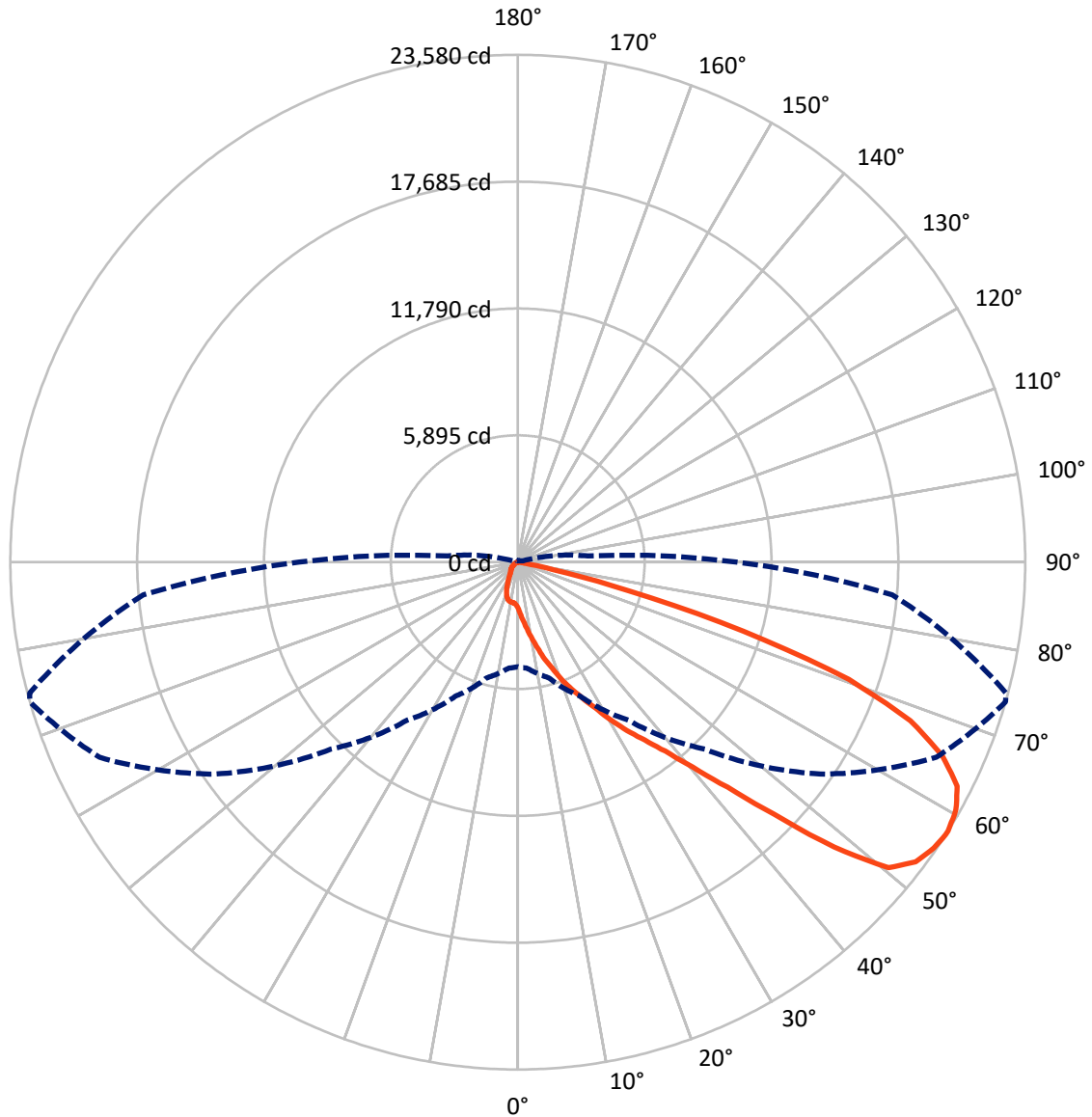
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

REPORT NUMBER: P455835
CATALOG NUMBER: GALN-SA7A-740-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P455835

CATALOG NUMBER: GALN-SA7A-740-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1470.9	0.0	1470.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	24031.1	0.0	24031.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	25502.0	0.0	25502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.8	1.0
10°-20°	1016.1	4.0
20°-30°	2174.2	8.5
30°-40°	3996.2	15.7
40°-50°	6126.2	24.0
50°-60°	6480.7	25.4
60°-70°	4232.1	16.6
70°-80°	1156.4	4.5
80°-90°	62.3	0.2
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°	25502.0	100.0
0°-180°	25502.0	100.0

Coefficient of Utilization



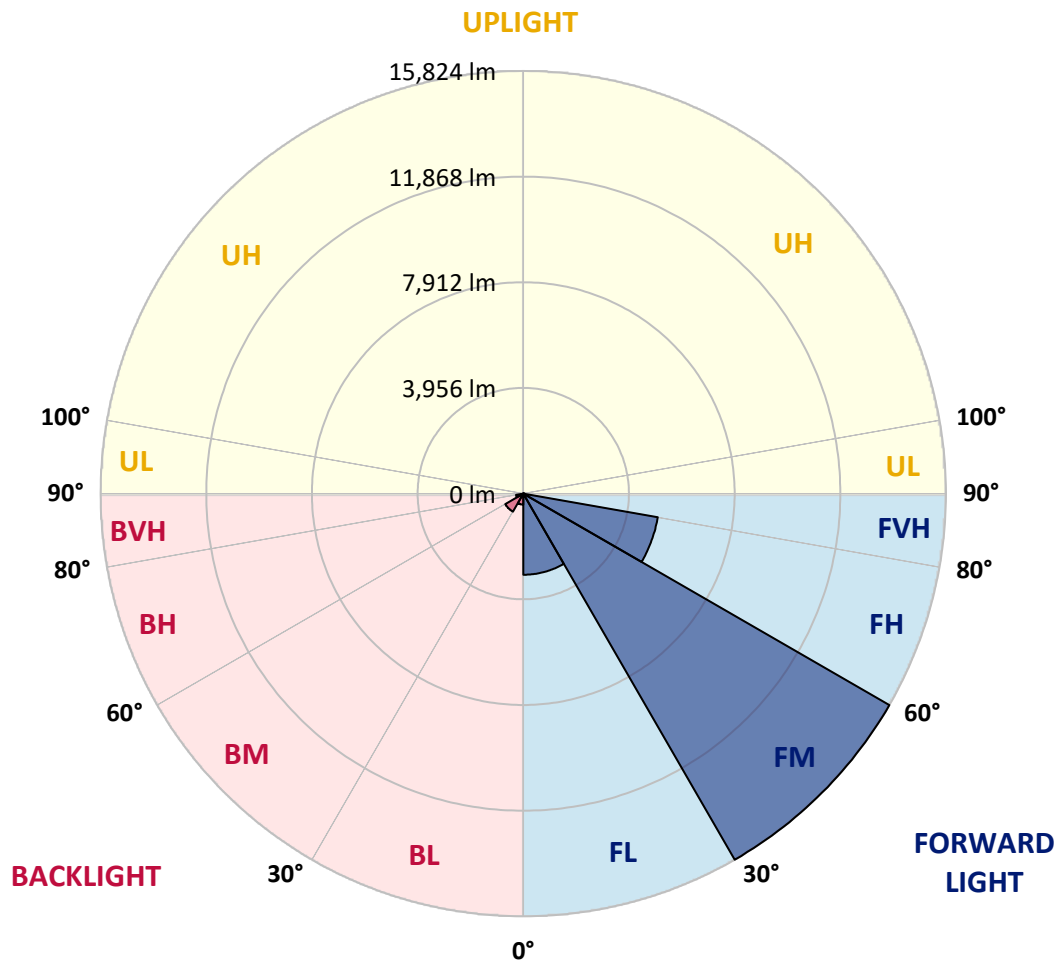
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 CATALOG NUMBER: GALN-SA7A-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3037.3	11.9			
FM (30°-60°)	15824.5	62.1			
FH (60°-80°)	5112.3	20.0			G3/7500
FVH (80°-90°)	57.1	0.2			G1/100
BL (0°-30°)	410.9	1.6	B1/500		
BM (30°-60°)	778.7	3.1	B1/1000		
BH (60°-80°)	276.1	1.1	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





REPORT NUMBER: P455835

CATALOG NUMBER: GALN-SA7A-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8
2.5°	3125.3	3097.1	3040.8	3021.4	2938.6	2810.1	2697.4	2546.0	2426.3	2414.0	2269.6
5°	4185.2	4121.9	4095.4	3968.7	3769.7	3583.1	3262.6	3019.6	2739.7	2718.6	2428.0
7.5°	5206.5	5118.4	5092.0	4972.3	4739.9	4445.8	4030.3	3588.4	3144.7	3104.2	2641.1
10°	5946.0	5958.3	5910.8	5831.5	5643.1	5343.8	4831.4	4227.5	3595.4	3544.3	2880.5
12.5°	6475.9	6474.2	6483.0	6481.2	6380.9	6153.7	5615.0	4919.5	4091.9	3991.6	3155.2
15°	6821.0	6826.3	6852.7	6944.3	6954.9	6814.0	6365.0	5581.5	4667.7	4542.7	3452.8
17.5°	7169.7	7206.6	7248.9	7335.2	7412.7	7356.3	7039.4	6271.7	5188.9	5095.5	3771.5
20°	7745.4	7796.5	7771.8	7824.7	7865.2	7870.4	7625.7	6909.1	5821.0	5664.3	4135.9
22.5°	8666.3	8664.5	8601.1	8506.1	8426.8	8423.3	8201.5	7564.1	6395.0	6243.5	4502.2
25°	9830.1	9835.4	9712.2	9441.0	9243.8	9002.6	8747.3	8138.1	7009.4	6822.8	4887.8
27.5°	11164.8	11131.3	10944.7	10571.4	10180.5	9768.5	9400.5	8805.4	7660.9	7506.0	5329.7
30°	12363.8	12351.5	12133.2	11677.1	11163.0	10749.2	10215.7	9641.7	8504.3	8314.1	5824.5
32.5°	13480.1	13497.7	13194.9	12723.0	12226.5	11749.3	11185.9	10441.1	9331.8	9062.5	6363.3
35°	14351.7	14369.3	14055.9	13663.2	13152.6	12756.5	12219.4	11293.3	10148.8	9921.7	6983.0
37.5°	14816.5	14839.4	14658.0	14362.2	14043.5	13844.6	13344.5	12390.2	11141.9	11004.5	7715.5
40°	14904.5	14930.9	14851.7	14772.5	14754.9	14897.5	14751.4	13682.6	12518.8	12303.9	8807.1
42.5°	14640.4	14675.6	14710.9	14886.9	15246.1	15769.1	16277.9	15436.3	14291.8	14003.0	10141.8
45°	13946.7	13943.2	14082.3	14538.3	15343.0	16459.3	17873.1	17631.9	16707.5	16364.2	12027.5
47.5°	12760.0	12742.4	13043.4	13693.2	14946.8	16586.0	19174.3	20297.6	19790.5	19473.6	14054.1
50°	10951.7	11038.0	11511.6	12418.4	13962.5	16202.2	19575.7	22046.0	22320.7	21984.4	15691.6
52.5°	8833.6	8830.0	9573.1	10803.8	12504.7	15357.0	19295.8	22363.0	23143.0	22885.9	16498.0
55°	6537.6	6583.4	7356.3	8597.6	10611.9	13814.6	18382.0	22037.2	23456.4	23275.0	17029.7
57°	4863.1	4944.1	5563.9	6877.4	8963.9	12288.1	17165.3	21454.4	23579.6	23481.0	17471.7
57.5°	4539.1	4542.7	5146.6	6340.4	8481.4	11701.8	16816.7	21211.5	23576.1	23521.5	17543.9
60°	2794.3	2882.3	3299.6	4285.6	6208.3	9132.9	14480.2	19815.2	23393.0	23472.2	17852.0
62.5°	1672.7	1709.7	1980.8	2583.0	4002.1	6666.1	11849.7	18028.1	22915.8	23157.1	17830.9
65°	1075.8	1084.6	1207.9	1563.5	2502.0	4505.7	9131.1	15666.9	21681.6	22125.3	17133.6
67.5°	831.1	845.1	894.4	1026.5	1450.8	2806.6	6458.3	13147.3	19684.9	20257.1	15443.3
70°	737.7	744.8	762.4	804.7	959.6	1584.7	4018.0	10270.3	16323.7	16485.7	12085.6
72.5°	602.2	621.5	676.1	690.2	760.6	989.5	2236.1	6893.2	10967.6	11008.1	6761.2
75°	466.6	470.1	551.1	591.6	640.9	681.4	998.3	3475.7	5268.1	4986.4	2605.9
77.5°	348.6	364.5	401.4	452.5	522.9	487.7	447.2	1310.0	1635.7	1605.8	757.1
80°	223.6	232.4	280.0	339.8	406.7	318.7	251.8	383.8	359.2	369.8	181.4
82.5°	112.7	114.4	179.6	276.4	258.8	160.2	158.5	156.7	133.8	132.1	84.5
85°	12.3	26.4	116.2	158.5	116.2	52.8	74.0	72.2	70.4	72.2	49.3
87.5°	1.8	1.8	19.4	22.9	15.8	17.6	21.1	22.9	28.2	26.4	21.1
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: P455835

CATALOG NUMBER: GALN-SA7A-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8	2135.8
2.5°	2199.1	2128.7	1998.4	1873.4	1780.1	1720.2	1642.8	1614.6	1574.1	1568.8	1549.4
5°	2294.2	2160.4	1933.3	1753.7	1609.3	1500.1	1405.1	1325.8	1262.4	1248.4	1255.4
7.5°	2429.8	2230.8	1913.9	1669.2	1468.4	1281.8	1130.4	1037.1	970.2	945.5	949.0
10°	2583.0	2324.2	1910.4	1579.4	1273.0	1044.1	878.6	795.8	757.1	743.0	727.2
12.5°	2764.3	2431.6	1901.6	1440.3	1058.2	832.8	714.9	665.6	628.6	618.0	618.0
15°	2968.6	2546.0	1859.3	1267.7	859.2	688.4	609.2	570.5	558.1	547.6	547.6
17.5°	3181.6	2658.7	1771.3	1054.7	713.1	589.8	540.5	517.7	500.0	487.7	487.7
20°	3424.6	2769.6	1630.4	866.3	602.2	526.5	487.7	461.3	447.2	436.7	433.1
22.5°	3655.3	2859.4	1450.8	711.3	524.7	473.6	438.4	410.2	396.2	390.9	390.9
25°	3894.7	2914.0	1234.3	588.1	478.9	429.6	390.9	368.0	355.7	352.1	350.4
27.5°	4127.1	2945.7	1044.1	514.1	436.7	389.1	352.1	334.5	322.2	318.7	320.5
30°	4408.9	2951.0	859.2	461.3	399.7	350.4	316.9	301.1	294.0	290.5	288.8
32.5°	4694.1	2943.9	721.9	429.6	364.5	316.9	288.8	276.4	271.2	265.9	265.9
35°	5014.5	2907.0	614.5	397.9	331.0	288.8	264.1	253.5	246.5	241.2	239.5
37.5°	5412.5	2887.6	552.9	362.7	301.1	262.3	239.5	228.9	223.6	216.6	214.8
40°	6039.3	2973.9	533.5	331.0	271.2	237.7	216.6	204.2	197.2	190.2	188.4
42.5°	6821.0	3125.3	501.8	299.3	244.7	214.8	193.7	179.6	167.3	158.5	154.9
45°	7833.5	3324.2	452.5	265.9	221.9	190.2	170.8	153.2	137.3	130.3	128.5
47.5°	8895.2	3516.2	408.5	239.5	197.2	169.0	147.9	128.5	114.4	109.2	107.4
50°	9546.7	3554.9	380.3	209.5	172.6	146.1	125.0	107.4	98.6	93.3	93.3
52.5°	9844.2	3493.3	341.6	183.1	149.7	128.5	107.4	93.3	88.0	84.5	82.8
55°	10052.0	3398.2	290.5	158.5	128.5	109.2	95.1	84.5	77.5	74.0	72.2
57°	10173.5	3269.7	251.8	139.1	110.9	95.1	84.5	75.7	68.7	61.6	61.6
57.5°	10178.8	3220.4	241.2	137.3	105.6	91.6	82.8	74.0	65.1	58.1	56.3
60°	10022.0	2882.3	193.7	116.2	84.5	77.5	68.7	58.1	45.8	38.7	37.0
62.5°	9518.5	2452.7	160.2	98.6	68.7	59.9	49.3	44.0	31.7	22.9	22.9
65°	8756.1	1989.6	137.3	79.2	56.3	44.0	33.5	31.7	19.4	10.6	8.8
67.5°	7653.9	1549.4	116.2	65.1	47.5	31.7	22.9	21.1	10.6	3.5	0.0
70°	5831.5	1056.4	96.8	52.8	35.2	22.9	15.8	12.3	7.0	1.8	0.0
72.5°	3361.2	581.0	81.0	40.5	26.4	17.6	12.3	7.0	7.0	0.0	0.0
75°	1200.8	250.0	61.6	29.9	21.1	14.1	8.8	3.5	5.3	1.8	0.0
77.5°	382.1	133.8	40.5	22.9	17.6	10.6	7.0	3.5	3.5	1.8	0.0
80°	112.7	70.4	24.7	19.4	12.3	8.8	5.3	1.8	3.5	1.8	0.0
82.5°	61.6	35.2	19.4	14.1	12.3	7.0	5.3	1.8	1.8	1.8	0.0
85°	31.7	21.1	15.8	14.1	12.3	7.0	5.3	1.8	0.0	1.8	1.8
87.5°	17.6	15.8	15.8	14.1	12.3	8.8	5.3	1.8	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)