

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: P454211

Luminaire Tested: **GALN-SA5B-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454211
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-SA5B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 22814 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

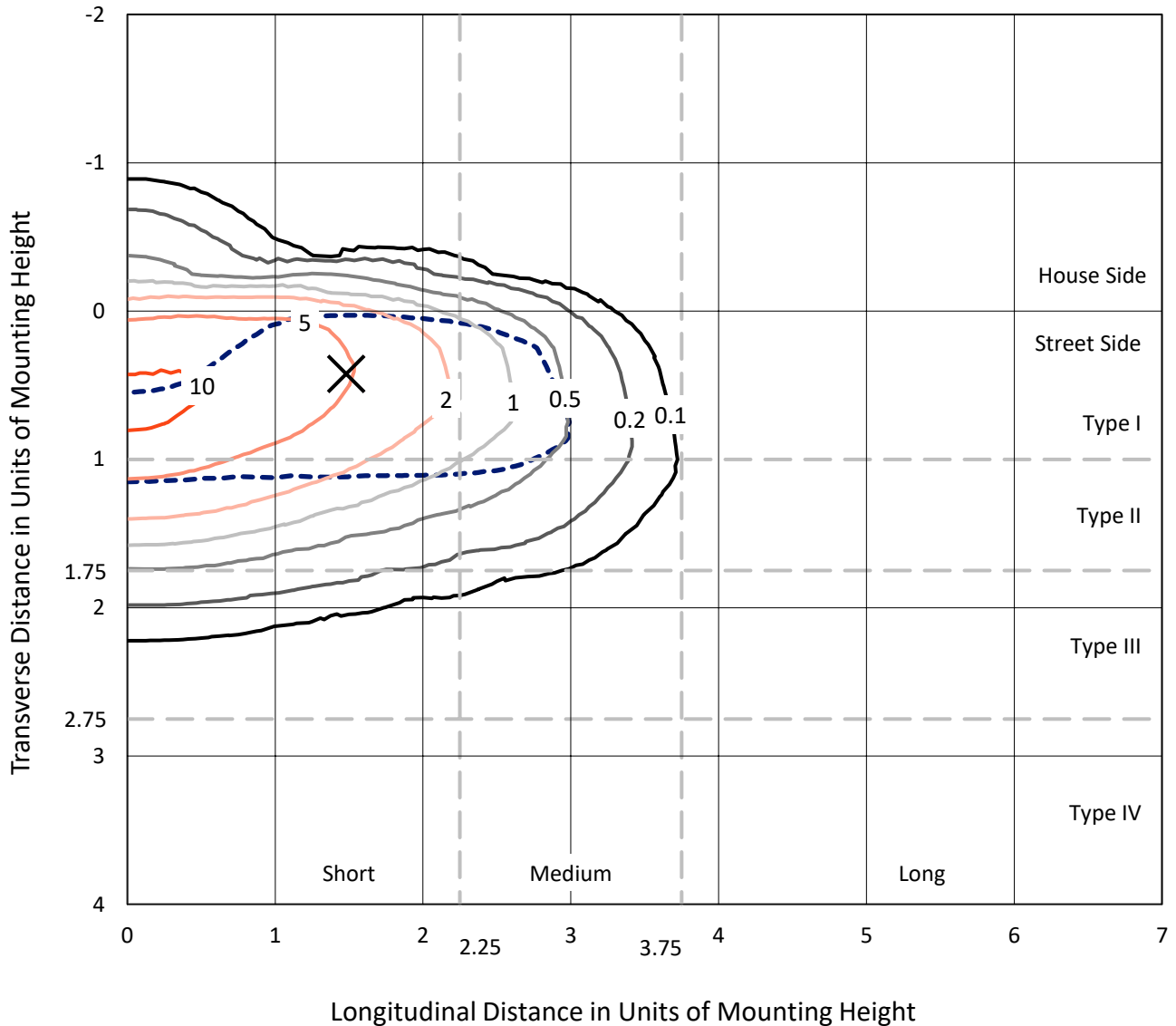
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454211
 CATALOG NUMBER: GALN-SA5B-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

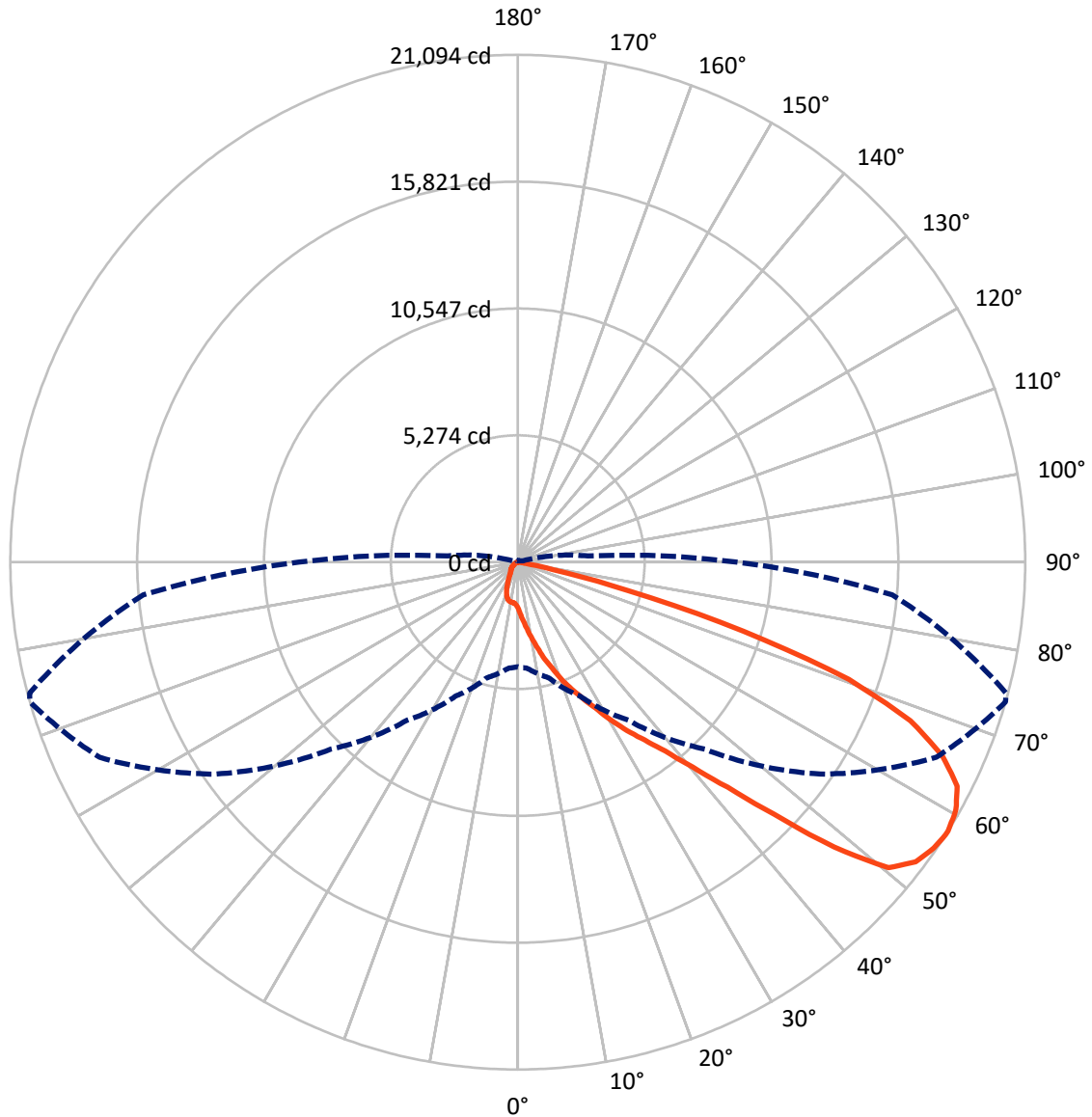
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

REPORT NUMBER: P454211
CATALOG NUMBER: GALN-SA5B-740-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454211

CATALOG NUMBER: GALN-SA5B-740-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1315.9	0.0	1315.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	21498.2	0.0	21498.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	22814.0	0.0	22814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.6	1.0
10°-20°	909.0	4.0
20°-30°	1945.1	8.5
30°-40°	3575.0	15.7
40°-50°	5480.5	24.0
50°-60°	5797.6	25.4
60°-70°	3786.0	16.6
70°-80°	1034.5	4.5
80°-90°	55.7	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°	22814.0	100.0
0°-180°	22814.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454211

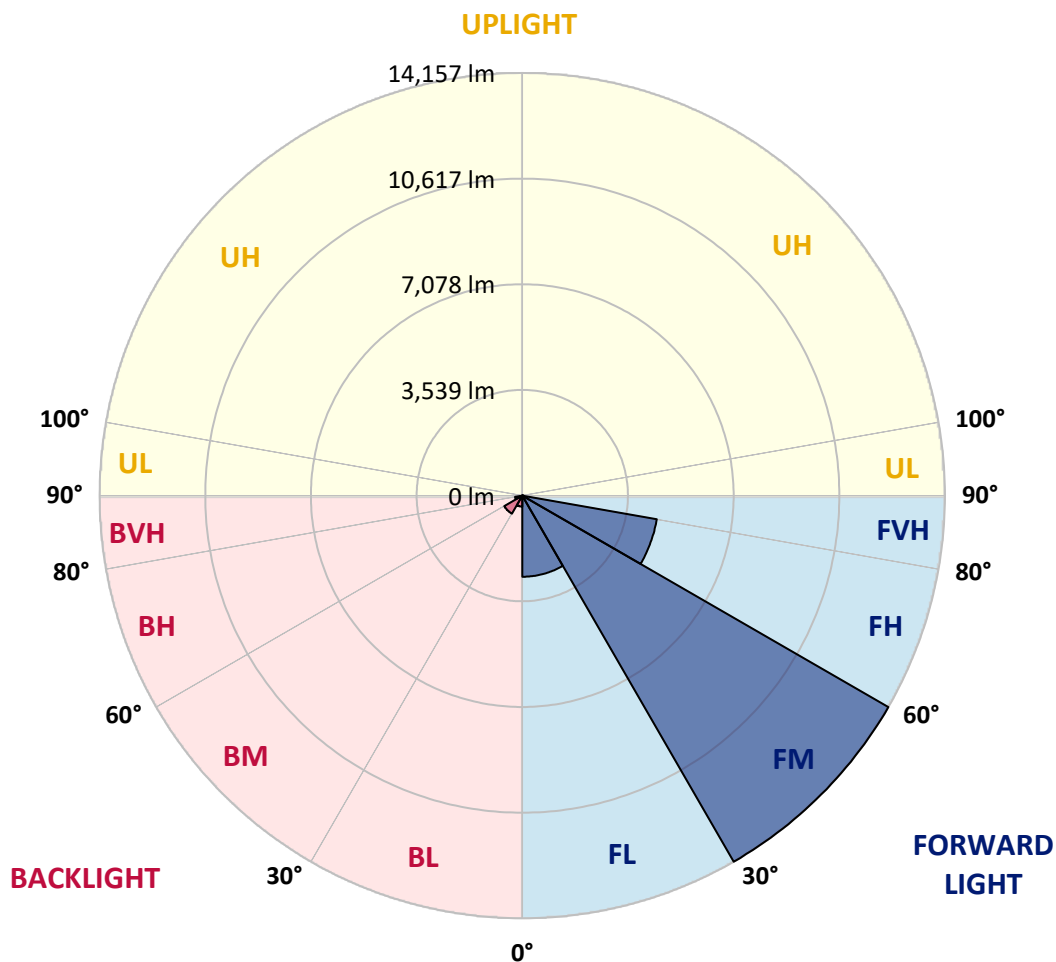
CATALOG NUMBER: GALN-SA5B-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2717.1	11.9			
FM (30°-60°)	14156.5	62.1			
FH (60°-80°)	4573.4	20.0			G2/5000
FVH (80°-90°)	51.1	0.2			G1/100
BL (0°-30°)	367.6	1.6	B1/500		
BM (30°-60°)	696.6	3.1	B1/1000		
BH (60°-80°)	247.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P454211

CATALOG NUMBER: GALN-SA5B-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6
2.5°	2795.9	2770.7	2720.3	2702.9	2628.9	2513.9	2413.1	2277.7	2170.5	2159.5	2030.4
5°	3744.1	3687.4	3663.8	3550.4	3372.4	3205.4	2918.7	2701.4	2450.9	2432.0	2172.1
7.5°	4657.7	4578.9	4555.3	4448.2	4240.3	3977.2	3605.5	3210.1	2813.2	2777.0	2362.7
10°	5319.2	5330.3	5287.7	5216.9	5048.3	4780.5	4322.2	3781.9	3216.4	3170.8	2576.9
12.5°	5793.4	5791.8	5799.7	5798.1	5708.3	5505.1	5023.1	4400.9	3660.6	3570.8	2822.6
15°	6102.1	6106.8	6130.4	6212.3	6221.8	6095.8	5694.1	4993.2	4175.7	4063.9	3088.8
17.5°	6414.0	6447.0	6484.8	6562.0	6631.3	6580.9	6297.4	5610.6	4641.9	4558.5	3373.9
20°	6929.0	6974.7	6952.7	6999.9	7036.1	7040.9	6821.9	6180.8	5207.4	5067.2	3700.0
22.5°	7752.8	7751.3	7694.6	7609.5	7538.6	7535.5	7337.0	6766.8	5720.9	5585.4	4027.6
25°	8794.0	8798.7	8688.5	8445.9	8269.5	8053.7	7825.3	7280.3	6270.6	6103.7	4372.6
27.5°	9988.0	9958.0	9791.1	9457.1	9107.4	8738.9	8409.7	7877.3	6853.4	6714.8	4767.9
30°	11060.6	11049.6	10854.3	10446.3	9986.4	9616.2	9139.0	8625.5	7607.9	7437.8	5210.6
32.5°	12059.3	12075.0	11804.1	11381.9	10937.8	10510.9	10006.9	9340.6	8348.2	8107.2	5692.5
35°	12839.0	12854.7	12574.3	12223.1	11766.3	11411.9	10931.5	10102.9	9079.1	8875.9	6247.0
37.5°	13254.8	13275.3	13113.0	12848.4	12563.3	12385.3	11938.0	11084.2	9967.5	9844.6	6902.3
40°	13333.5	13357.2	13286.3	13215.4	13199.7	13327.2	13196.5	12240.4	11199.2	11007.1	7878.8
42.5°	13097.3	13128.8	13160.3	13317.8	13639.1	14106.9	14562.2	13809.2	12785.4	12527.1	9072.8
45°	12476.7	12473.5	12598.0	13005.9	13725.8	14724.4	15989.2	15773.4	14946.5	14639.3	10759.8
47.5°	11415.0	11399.3	11668.6	12249.9	13371.3	14837.8	17153.3	18158.2	17704.6	17421.0	12572.8
50°	9797.4	9874.5	10298.3	11109.5	12490.8	14494.4	17512.4	19722.3	19968.0	19667.2	14037.6
52.5°	7902.5	7899.3	8564.0	9665.0	11186.6	13738.4	17261.9	20005.8	20703.6	20473.6	14759.0
55°	5848.5	5889.4	6580.9	7691.4	9493.4	12358.5	16444.4	19714.4	20984.0	20821.8	15234.7
57°	4350.5	4423.0	4977.4	6152.5	8019.0	10992.9	15356.0	19193.1	21094.3	21006.0	15630.1
57.5°	4060.7	4063.9	4604.1	5672.1	7587.4	10468.4	15044.1	18975.7	21091.1	21042.3	15694.7
60°	2499.7	2578.5	2951.8	3833.9	5553.9	8170.2	12953.9	17726.6	20927.3	20998.2	15970.3
62.5°	1496.4	1529.5	1772.0	2310.7	3580.3	5963.5	10600.7	16127.8	20500.4	20716.2	15951.4
65°	962.4	970.3	1080.5	1398.7	2238.3	4030.8	8168.7	14015.6	19396.3	19793.2	15327.7
67.5°	743.5	756.1	800.2	918.3	1297.9	2510.8	5777.6	11761.6	17610.0	18122.0	13815.5
70°	660.0	666.3	682.0	719.8	858.5	1417.6	3594.5	9187.8	14603.1	14748.0	10811.7
72.5°	538.7	556.0	604.9	617.5	680.5	885.2	2000.4	6166.7	9811.5	9847.8	6048.5
75°	417.4	420.6	493.0	529.2	573.4	609.6	893.1	3109.3	4712.8	4460.8	2331.2
77.5°	311.9	326.1	359.1	404.8	467.8	436.3	400.1	1171.9	1463.3	1436.5	677.3
80°	200.0	207.9	250.4	304.0	363.9	285.1	225.2	343.4	321.3	330.8	162.2
82.5°	100.8	102.4	160.7	247.3	231.5	143.3	141.8	140.2	119.7	118.1	75.6
85°	11.0	23.6	104.0	141.8	104.0	47.3	66.2	64.6	63.0	64.6	44.1
87.5°	1.6	1.6	17.3	20.5	14.2	15.8	18.9	20.5	25.2	23.6	18.9
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: P454211
 CATALOG NUMBER: GALN-SA5B-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6
2.5°	1967.3	1904.3	1787.8	1675.9	1592.5	1538.9	1469.6	1444.4	1408.2	1403.4	1386.1
5°	2052.4	1932.7	1729.5	1568.8	1439.7	1342.0	1257.0	1186.1	1129.4	1116.8	1123.1
7.5°	2173.7	1995.7	1712.2	1493.2	1313.7	1146.7	1011.2	927.8	867.9	845.8	849.0
10°	2310.7	2079.2	1709.0	1412.9	1138.8	934.1	786.0	712.0	677.3	664.7	650.5
12.5°	2473.0	2175.3	1701.1	1288.5	946.7	745.0	639.5	595.4	562.3	552.9	552.9
15°	2655.7	2277.7	1663.3	1134.1	768.7	615.9	545.0	510.3	499.3	489.9	489.9
17.5°	2846.3	2378.5	1584.6	943.5	637.9	527.7	483.6	463.1	447.3	436.3	436.3
20°	3063.6	2477.7	1458.6	775.0	538.7	471.0	436.3	412.7	400.1	390.6	387.5
22.5°	3270.0	2558.0	1297.9	636.4	469.4	423.7	392.2	367.0	354.4	349.7	349.7
25°	3484.2	2606.9	1104.2	526.1	428.4	384.3	349.7	329.2	318.2	315.0	313.5
27.5°	3692.1	2635.2	934.1	459.9	390.6	348.1	315.0	299.3	288.3	285.1	286.7
30°	3944.1	2639.9	768.7	412.7	357.6	313.5	283.5	269.3	263.0	259.9	258.3
32.5°	4199.3	2633.6	645.8	384.3	326.1	283.5	258.3	247.3	242.6	237.8	237.8
35°	4486.0	2600.6	549.7	356.0	296.1	258.3	236.3	226.8	220.5	215.8	214.2
37.5°	4842.0	2583.2	494.6	324.5	269.3	234.7	214.2	204.8	200.0	193.7	192.2
40°	5402.7	2660.4	477.3	296.1	242.6	212.6	193.7	182.7	176.4	170.1	168.5
42.5°	6102.1	2795.9	448.9	267.8	218.9	192.2	173.3	160.7	149.6	141.8	138.6
45°	7007.8	2973.9	404.8	237.8	198.5	170.1	152.8	137.0	122.9	116.6	115.0
47.5°	7957.6	3145.6	365.4	214.2	176.4	151.2	132.3	115.0	102.4	97.7	96.1
50°	8540.4	3180.2	340.2	187.4	154.4	130.7	111.8	96.1	88.2	83.5	83.5
52.5°	8806.6	3125.1	305.6	163.8	133.9	115.0	96.1	83.5	78.8	75.6	74.0
55°	8992.5	3040.0	259.9	141.8	115.0	97.7	85.1	75.6	69.3	66.2	64.6
57°	9101.1	2925.0	225.2	124.4	99.2	85.1	75.6	67.7	61.4	55.1	55.1
57.5°	9105.9	2880.9	215.8	122.9	94.5	81.9	74.0	66.2	58.3	52.0	50.4
60°	8965.7	2578.5	173.3	104.0	75.6	69.3	61.4	52.0	41.0	34.7	33.1
62.5°	8515.2	2194.2	143.3	88.2	61.4	53.6	44.1	39.4	28.4	20.5	20.5
65°	7833.2	1779.9	122.9	70.9	50.4	39.4	29.9	28.4	17.3	9.5	7.9
67.5°	6847.1	1386.1	104.0	58.3	42.5	28.4	20.5	18.9	9.5	3.2	0.0
70°	5216.9	945.1	86.6	47.3	31.5	20.5	14.2	11.0	6.3	1.6	0.0
72.5°	3006.9	519.8	72.5	36.2	23.6	15.8	11.0	6.3	6.3	0.0	0.0
75°	1074.2	223.7	55.1	26.8	18.9	12.6	7.9	3.2	4.7	1.6	0.0
77.5°	341.8	119.7	36.2	20.5	15.8	9.5	6.3	3.2	3.2	1.6	0.0
80°	100.8	63.0	22.1	17.3	11.0	7.9	4.7	1.6	3.2	1.6	0.0
82.5°	55.1	31.5	17.3	12.6	11.0	6.3	4.7	1.6	1.6	1.6	0.0
85°	28.4	18.9	14.2	12.6	11.0	6.3	4.7	1.6	0.0	1.6	1.6
87.5°	15.8	14.2	14.2	12.6	11.0	7.9	4.7	1.6	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)