

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: P454862

Luminaire Tested: **GALN-SA6A-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20234 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

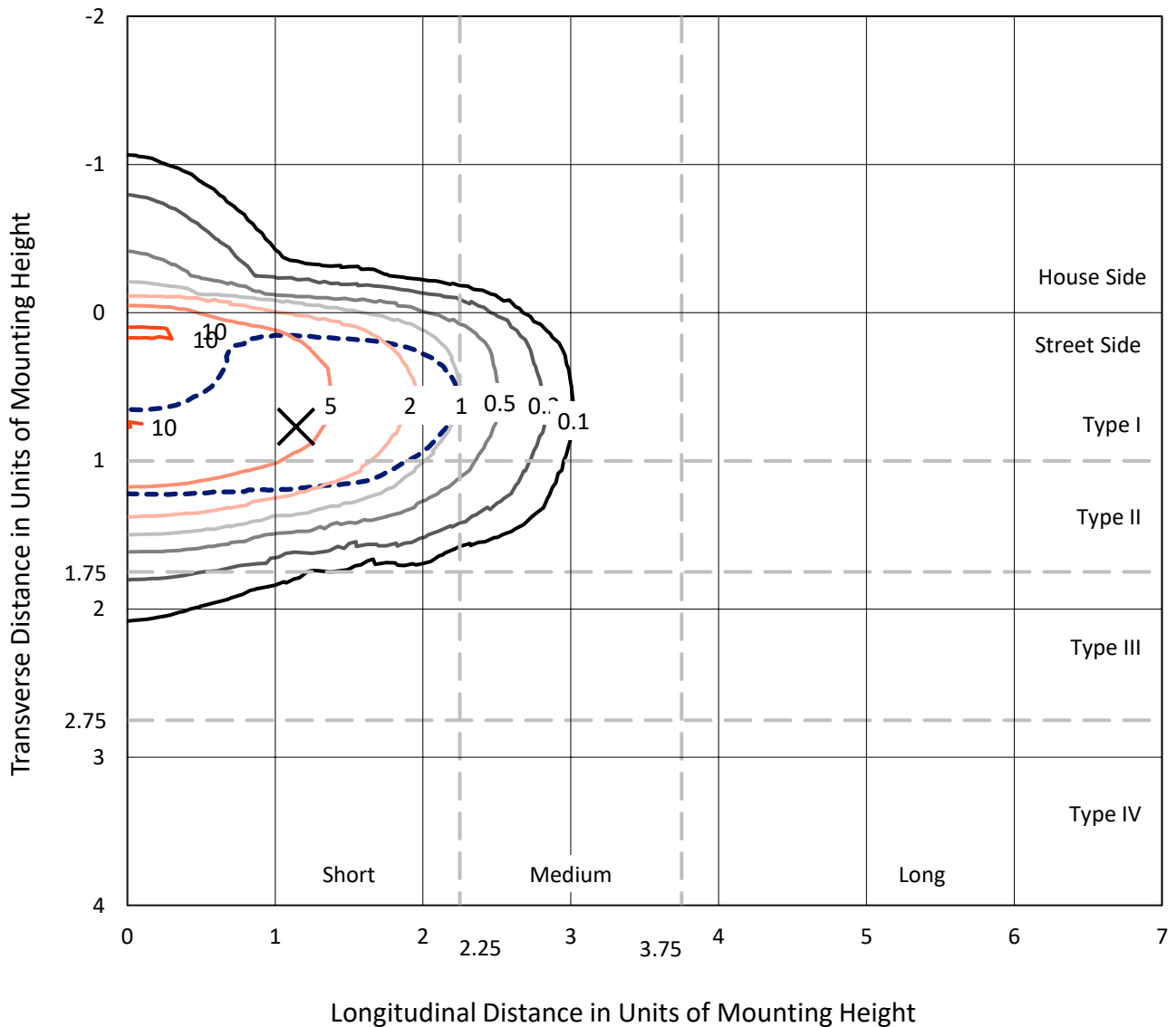
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454862
 CATALOG NUMBER: GALN-SA6A-730-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

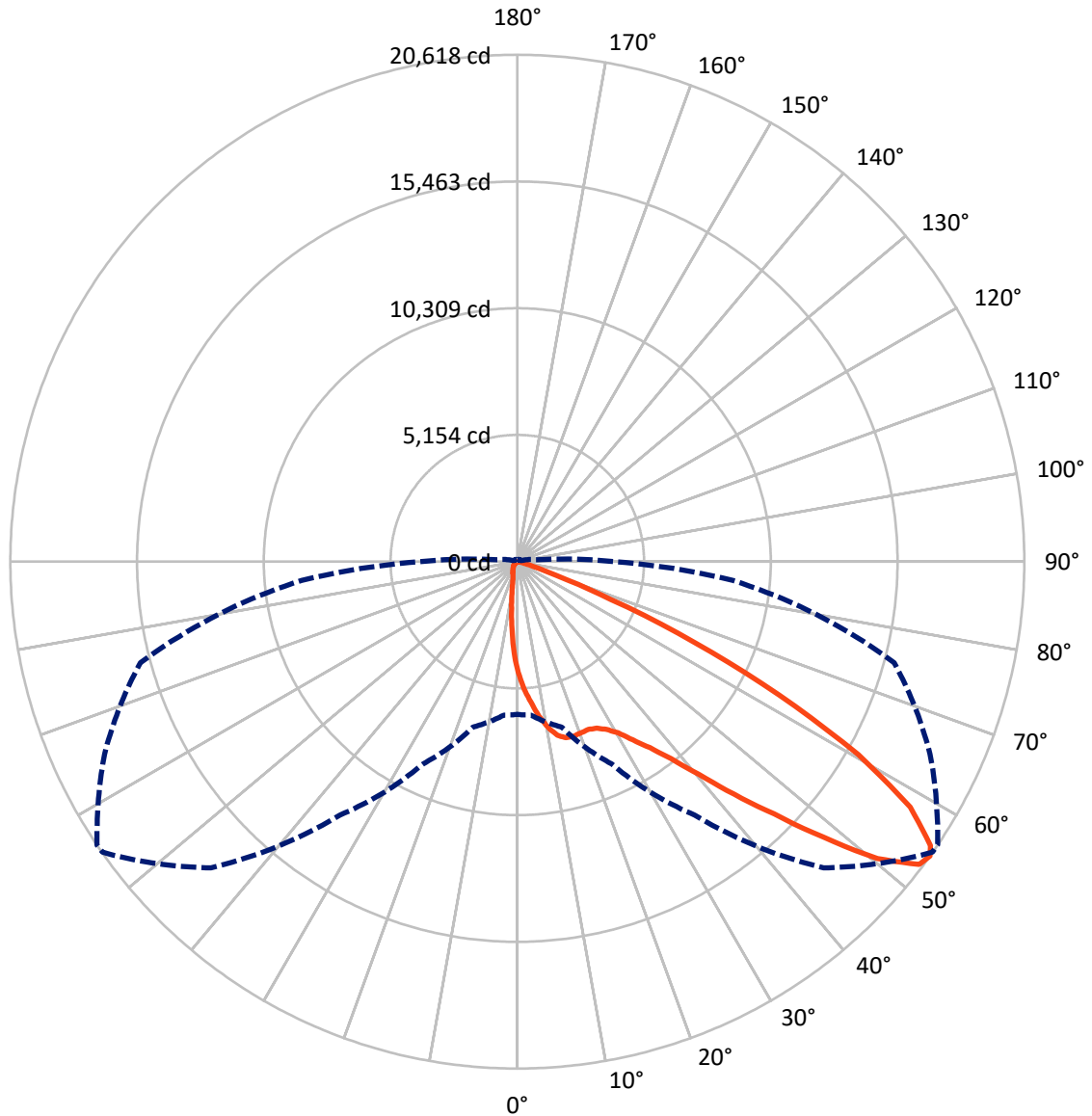
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

REPORT NUMBER: P454862
CATALOG NUMBER: GALN-SA6A-730-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P454862

CATALOG NUMBER: GALN-SA6A-730-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.8	0.0	956.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	19277.2	0.0	19277.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	20234.0	0.0	20234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.2	2.0
10°-20°	1073.9	5.3
20°-30°	1859.9	9.2
30°-40°	3210.4	15.9
40°-50°	5464.2	27.0
50°-60°	5407.5	26.7
60°-70°	2468.1	12.2
70°-80°	317.0	1.6
80°-90°	35.7	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°	20234.0	100.0
0°-180°	20234.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454862

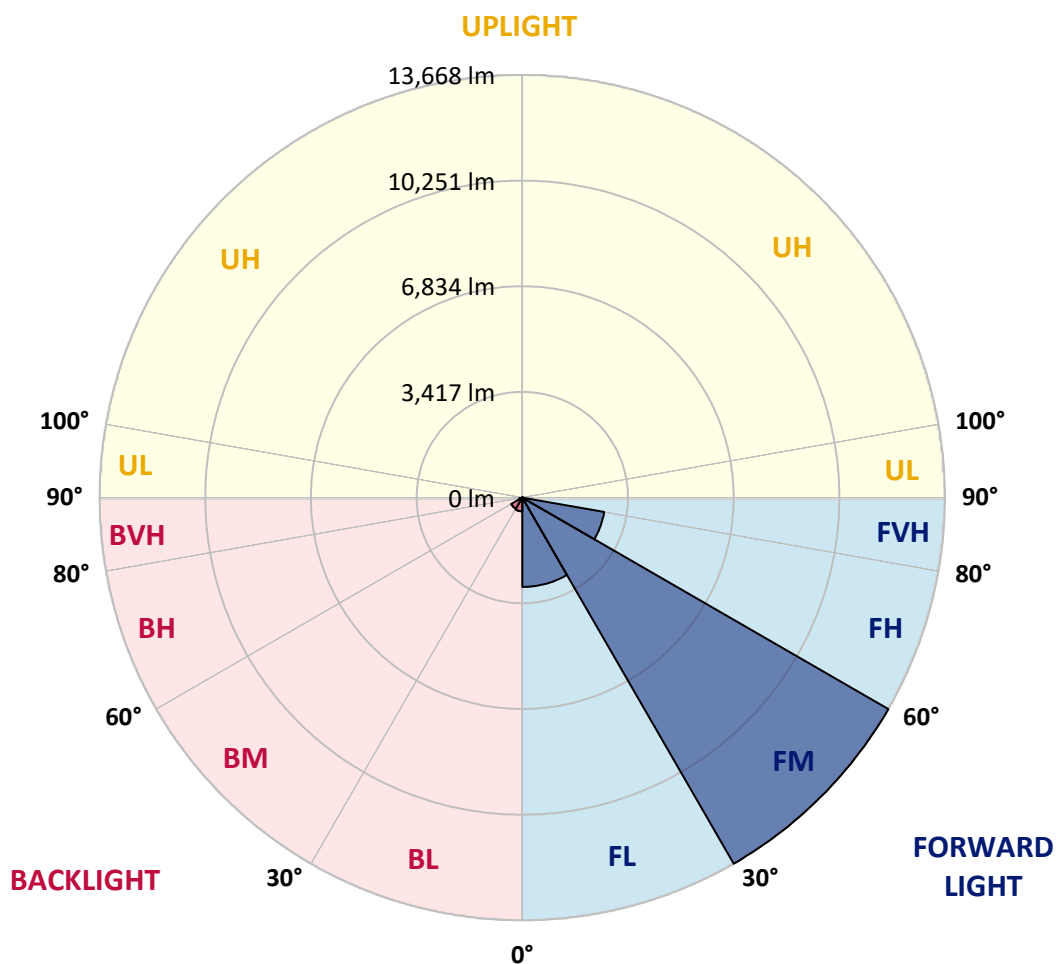
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2888.5	14.3			
FM (30°-60°)	13667.5	67.5			
FH (60°-80°)	2689.3	13.3			G2/5000
FVH (80°-90°)	31.9	0.2			G1/100
BL (0°-30°)	442.5	2.2	B1/500		
BM (30°-60°)	414.7	2.0	B1/1000		
BH (60°-80°)	95.8	0.5	B0/110		G0/110
BVH (80°-90°)	3.8	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: P454862

CATALOG NUMBER: GALN-SA6A-730-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4
2.5°	5713.1	5673.5	5618.9	5576.6	5477.0	5333.6	5182.1	5182.1	5036.0	4832.6	4625.1
5°	6589.5	6563.6	6510.4	6401.2	6289.2	6088.5	5784.1	5730.9	5470.1	5101.5	4713.8
7.5°	6945.8	6958.1	6960.9	6932.2	6879.0	6681.0	6379.3	6342.5	5926.1	5431.9	4829.9
10°	6604.6	6664.6	6723.3	6842.1	7010.0	7057.8	6887.1	6848.9	6439.4	5766.4	4955.5
12.5°	6096.7	6129.5	6162.3	6349.3	6686.5	7072.8	7251.6	7250.3	6903.5	6099.5	5115.2
15°	5860.6	5889.2	5892.0	5975.2	6267.4	6829.8	7407.3	7427.7	7356.8	6510.4	5287.2
17.5°	5909.7	5932.9	5913.8	5934.3	6087.2	6562.2	7389.5	7457.8	7724.0	6904.9	5442.8
20°	6230.5	6275.6	6201.8	6144.5	6190.9	6491.3	7329.4	7425.0	7983.4	7289.9	5584.8
22.5°	6806.6	6831.2	6738.3	6581.4	6499.4	6640.1	7313.1	7407.3	8204.5	7605.2	5666.7
25°	7446.9	7438.7	7336.3	7160.2	6988.2	6940.4	7420.9	7505.6	8387.4	7889.2	5691.3
27.5°	8087.1	8111.7	7939.7	7721.2	7515.1	7390.9	7662.5	7725.3	8593.6	8212.7	5721.3
30°	8831.1	8791.5	8622.2	8372.4	8136.2	7962.9	8051.6	8069.4	8877.5	8641.3	5800.5
32.5°	9799.0	9689.8	9500.0	9063.2	8893.9	8600.4	8622.2	8644.1	9222.9	9065.9	5896.0
35°	11112.3	11106.8	10735.5	10147.1	9734.8	9370.3	9274.8	9292.5	9745.7	9696.6	6107.6
37.5°	12693.1	12714.9	12291.7	11699.3	10940.2	10361.4	10164.8	10167.6	10540.3	10567.6	6429.8
40°	13980.4	14037.8	13785.2	13385.2	12635.8	11730.7	11400.3	11370.3	11656.9	11622.8	6889.9
42.5°	14534.7	14587.9	14682.1	14821.3	14409.1	13662.3	12882.8	12923.8	13011.2	12772.3	7405.9
45°	14263.0	14347.6	14717.6	15577.6	15965.3	15714.2	14784.5	14641.1	14271.2	14021.4	7924.7
47.5°	13131.3	13337.4	13955.8	15387.9	16744.8	17594.0	16930.5	16740.7	15532.6	14933.3	8255.0
50°	11270.6	11282.9	12144.3	13975.0	16340.8	18780.3	19121.5	18979.6	16708.0	15445.2	8421.6
52.5°	8170.4	8439.3	9228.4	11348.4	14590.6	18600.1	20518.1	20459.4	17920.2	15707.3	8661.8
54°	6211.4	6263.3	6965.0	9068.6	12579.8	17610.3	20604.1	20617.7	18522.2	15865.7	8803.8
55°	5092.0	4967.8	5704.9	7725.3	11207.8	16735.3	20322.9	20388.4	18792.5	15947.6	8908.9
57.5°	2413.6	2414.9	2978.7	4074.9	7019.6	12994.8	18604.2	18836.2	18822.6	16088.2	9232.5
60°	1221.8	1230.0	1354.2	1881.2	3467.5	8638.6	15382.4	15935.3	17374.2	16108.7	9338.9
62.5°	854.6	845.0	824.5	905.1	1459.3	4390.3	11452.2	11932.7	14761.3	15329.2	9000.4
65°	731.7	711.2	653.9	641.6	737.2	1748.7	7132.9	7916.5	11270.6	13273.3	8036.6
67.5°	625.2	617.0	565.2	533.8	521.5	761.7	3680.4	4092.7	7703.5	9541.0	6087.2
70°	531.0	526.9	495.5	456.0	421.8	456.0	1365.1	1691.4	4293.4	5137.0	2872.3
72.5°	431.4	435.5	440.9	390.4	354.9	323.5	582.9	678.5	1796.5	1836.1	1004.7
75°	378.1	374.0	374.0	339.9	296.2	240.3	320.8	345.4	550.2	510.6	233.4
77.5°	266.2	256.6	300.3	279.9	247.1	170.6	182.9	193.9	228.0	195.2	109.2
80°	184.3	184.3	192.5	251.2	222.5	124.2	111.9	120.1	135.1	116.0	62.8
82.5°	103.8	106.5	125.6	133.8	129.7	83.3	73.7	75.1	90.1	79.2	39.6
85°	12.3	20.5	72.4	71.0	53.2	36.9	41.0	42.3	56.0	49.1	23.2
87.5°	1.4	2.7	15.0	19.1	13.7	15.0	15.0	15.0	19.1	21.8	16.4
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°	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4	4495.4
2.5°	4513.2	4409.4	4162.3	3875.6	3692.7	3395.1	3143.9	2962.4	2917.3	2829.9	2855.9
5°	4507.7	4292.0	3788.3	3255.9	2688.0	2264.8	1949.4	1701.0	1591.8	1519.4	1468.9
7.5°	4510.4	4173.2	3365.1	2517.3	1838.8	1423.8	1131.7	980.2	879.2	836.8	842.3
10°	4518.6	4039.5	2873.6	1864.8	1240.9	920.1	741.3	668.9	634.8	629.3	628.0
12.5°	4537.7	3893.4	2404.0	1384.3	868.2	668.9	600.7	576.1	565.2	565.2	561.1
15°	4558.2	3732.3	2013.6	1029.3	668.9	574.7	543.3	531.0	524.2	524.2	522.8
17.5°	4558.2	3546.6	1649.1	798.6	576.1	528.3	503.7	487.4	481.9	481.9	480.5
20°	4529.5	3330.9	1325.6	643.0	522.8	484.6	460.1	442.3	435.5	432.8	431.4
22.5°	4429.9	3042.9	1055.3	552.9	479.2	446.4	415.0	394.5	389.1	386.3	387.7
25°	4252.4	2718.0	835.5	486.0	439.6	400.0	372.7	357.7	352.2	352.2	353.6
27.5°	4069.5	2378.1	662.1	435.5	391.8	356.3	334.5	324.9	323.5	327.6	329.0
30°	3900.2	2036.8	536.5	394.5	349.5	319.4	304.4	301.7	301.7	303.1	304.4
32.5°	3711.8	1737.8	449.1	359.0	315.3	289.4	281.2	281.2	283.9	283.9	286.7
35°	3593.1	1481.2	394.5	324.9	289.4	267.6	262.1	263.5	267.6	273.0	275.8
37.5°	3528.9	1276.4	359.0	297.6	264.8	249.8	244.4	247.1	256.6	266.2	267.6
40°	3534.4	1122.1	330.4	274.4	245.7	229.3	225.2	233.4	243.0	252.6	253.9
42.5°	3594.4	1007.5	303.1	247.1	229.3	206.1	204.8	213.0	217.1	226.6	228.0
45°	3665.4	924.2	274.4	218.4	199.3	178.8	180.2	187.0	192.5	207.5	210.2
47.5°	3687.2	866.9	241.6	185.7	163.8	157.0	158.4	162.5	173.4	187.0	188.4
50°	3711.8	831.4	210.2	157.0	139.2	137.9	139.2	142.0	148.8	154.3	152.9
52.5°	3816.9	830.0	184.3	136.5	118.8	121.5	122.9	121.5	116.0	107.8	105.1
54°	3915.2	834.1	172.0	127.0	109.2	113.3	111.9	105.1	91.5	83.3	79.2
55°	3994.4	838.2	165.2	120.1	103.8	105.1	106.5	92.8	75.1	66.9	64.2
57.5°	4150.0	828.6	148.8	105.1	91.5	86.0	84.6	61.4	41.0	35.5	32.8
60°	4072.2	748.1	135.1	90.1	77.8	69.6	57.3	34.1	20.5	15.0	15.0
62.5°	3766.4	634.8	120.1	73.7	64.2	53.2	30.0	19.1	9.6	5.5	4.1
65°	3369.2	533.8	107.8	58.7	50.5	34.1	16.4	12.3	4.1	0.0	0.0
67.5°	2505.0	395.9	91.5	46.4	38.2	21.8	10.9	6.8	1.4	0.0	0.0
70°	1160.4	241.6	77.8	35.5	27.3	16.4	8.2	4.1	0.0	0.0	0.0
72.5°	333.1	151.5	64.2	25.9	19.1	13.7	6.8	2.7	1.4	0.0	0.0
75°	116.0	121.5	47.8	19.1	15.0	9.6	5.5	2.7	1.4	0.0	0.0
77.5°	69.6	98.3	30.0	16.4	12.3	8.2	5.5	2.7	1.4	1.4	0.0
80°	39.6	65.5	19.1	13.7	10.9	6.8	4.1	2.7	1.4	1.4	0.0
82.5°	21.8	31.4	15.0	12.3	9.6	6.8	4.1	2.7	1.4	1.4	1.4
85°	17.7	16.4	12.3	10.9	8.2	5.5	4.1	1.4	0.0	0.0	0.0
87.5°	13.7	10.9	10.9	10.9	8.2	5.5	4.1	1.4	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)