

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: P453979

Luminaire Tested: **GALN-SA5A-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453979
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-SA5A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 18336 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

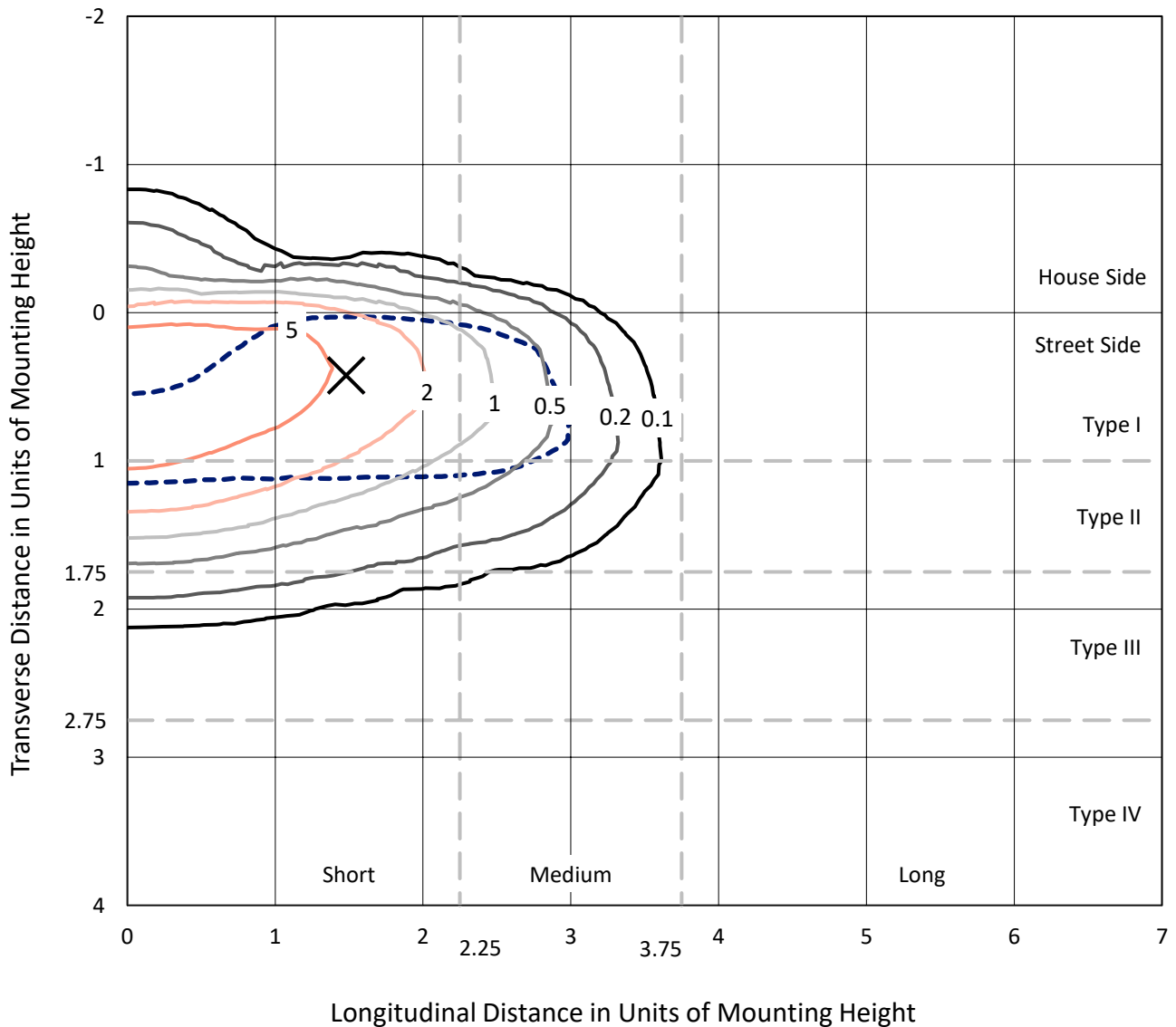
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

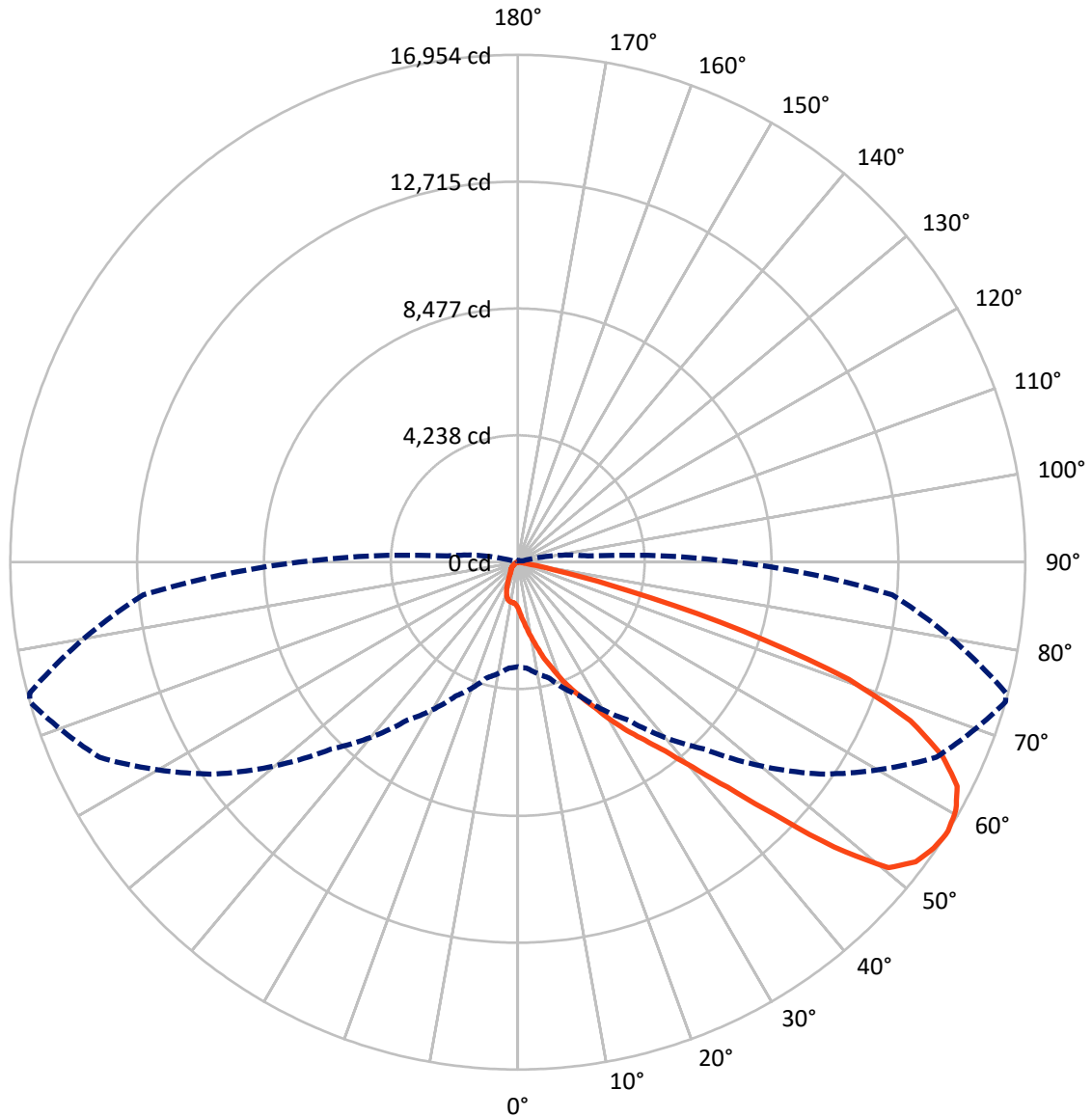
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1057.6	0.0	1057.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	17278.5	0.0	17278.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	18336.0	0.0	18336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	1.0
10°-20°	730.6	4.0
20°-30°	1563.3	8.5
30°-40°	2873.3	15.7
40°-50°	4404.8	24.0
50°-60°	4659.7	25.4
60°-70°	3042.9	16.6
70°-80°	831.4	4.5
80°-90°	44.8	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°	18336.0	100.0
0°-180°	18336.0	100.0

Coefficient of Utilization



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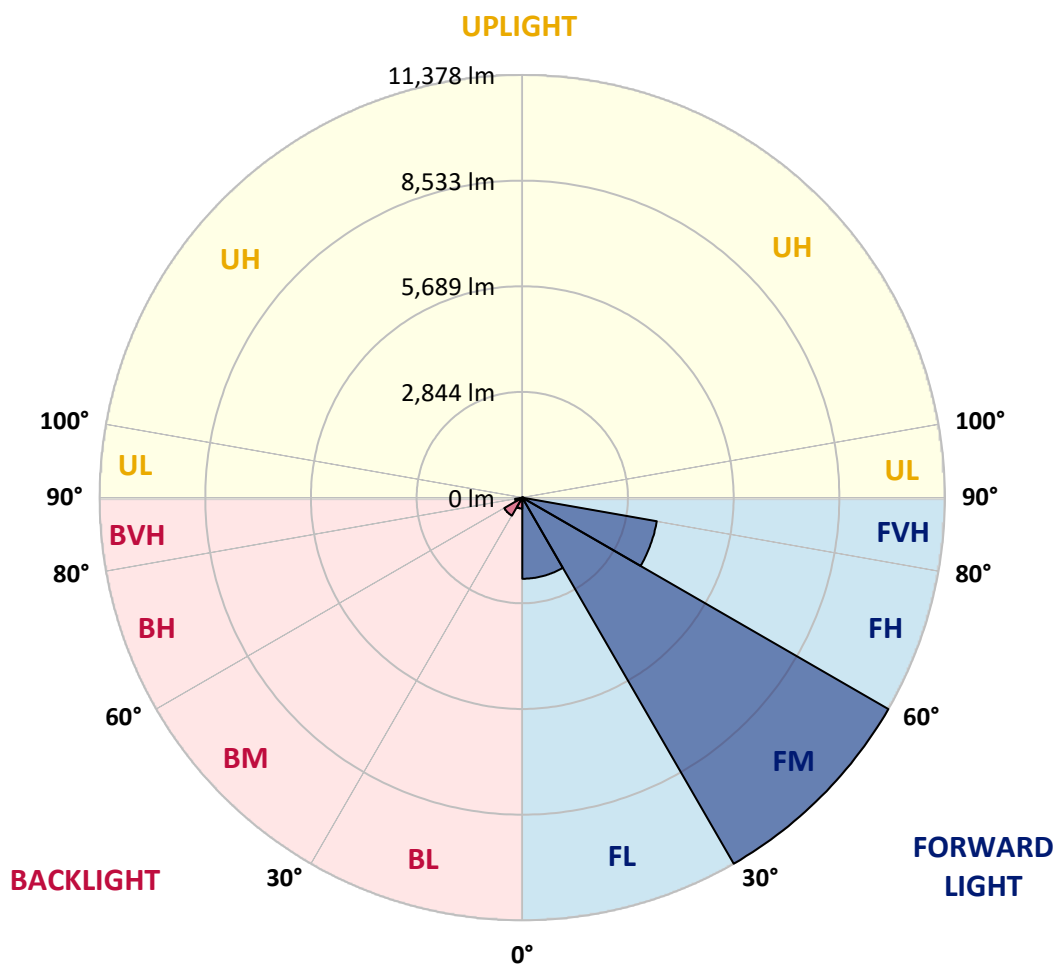
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2183.8	11.9			
FM (30°-60°)	11377.8	62.1			
FH (60°-80°)	3675.8	20.0			G2/5000
FVH (80°-90°)	41.1	0.2			G1/100
BL (0°-30°)	295.4	1.6	B1/500		
BM (30°-60°)	559.9	3.1	B1/1000		
BH (60°-80°)	198.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6
2.5°	2247.1	2226.8	2186.3	2172.4	2112.9	2020.5	1939.5	1830.6	1744.5	1735.6	1631.8
5°	3009.2	2963.6	2944.6	2853.5	2710.4	2576.2	2345.8	2171.1	1969.8	1954.7	1745.8
7.5°	3743.5	3680.2	3661.2	3575.1	3408.0	3196.6	2897.8	2580.0	2261.0	2231.9	1898.9
10°	4275.2	4284.0	4249.8	4192.9	4057.4	3842.2	3473.8	3039.6	2585.1	2548.4	2071.1
12.5°	4656.2	4655.0	4661.3	4660.0	4587.9	4424.5	4037.2	3537.1	2942.1	2869.9	2268.6
15°	4904.4	4908.1	4927.1	4993.0	5000.6	4899.3	4576.5	4013.1	3356.1	3266.2	2482.6
17.5°	5155.0	5181.6	5212.0	5274.0	5329.7	5289.2	5061.3	4509.4	3730.8	3663.7	2711.7
20°	5569.0	5605.7	5588.0	5626.0	5655.1	5658.9	5482.9	4967.6	4185.3	4072.6	2973.8
22.5°	6231.1	6229.8	6184.2	6115.9	6058.9	6056.4	5896.9	5438.6	4598.0	4489.1	3237.1
25°	7067.9	7071.7	6983.1	6788.1	6646.3	6472.9	6289.3	5851.3	5039.8	4905.6	3514.3
27.5°	8027.5	8003.4	7869.2	7600.9	7319.8	7023.6	6759.0	6331.1	5508.2	5396.8	3832.1
30°	8889.6	8880.7	8723.8	8395.9	8026.2	7728.7	7345.1	6932.4	6114.6	5977.9	4187.8
32.5°	9692.2	9704.9	9487.1	9147.9	8790.9	8447.8	8042.7	7507.2	6709.6	6515.9	4575.2
35°	10318.9	10331.5	10106.2	9823.9	9456.8	9171.9	8785.8	8119.9	7297.0	7133.7	5020.8
37.5°	10653.1	10669.6	10539.2	10326.5	10097.3	9954.3	9594.8	8908.6	8011.0	7912.3	5547.5
40°	10716.4	10735.4	10678.4	10621.5	10608.8	10711.3	10606.3	9837.8	9001.0	8846.6	6332.4
42.5°	10526.5	10551.8	10577.1	10703.7	10962.0	11338.0	11703.9	11098.7	10275.8	10068.2	7292.0
45°	10027.7	10025.2	10125.2	10453.1	11031.6	11834.2	12850.8	12677.4	12012.7	11765.9	8647.8
47.5°	9174.5	9161.8	9378.3	9845.4	10746.8	11925.4	13786.4	14594.0	14229.5	14001.6	10104.9
50°	7874.3	7936.3	8276.9	8928.9	10039.1	11649.4	14075.0	15851.2	16048.6	15806.8	11282.3
52.5°	6351.3	6348.8	6883.1	7768.0	8990.9	11041.8	13873.7	16079.0	16639.9	16455.0	11862.1
55°	4700.5	4733.4	5289.2	6181.7	7630.0	9932.8	13216.7	15844.8	16865.2	16734.8	12244.4
57°	3496.6	3554.8	4000.5	4944.9	6445.0	8835.2	12341.9	15425.8	16953.8	16882.9	12562.2
57.5°	3263.7	3266.2	3700.4	4558.7	6098.2	8413.6	12091.2	15251.1	16951.3	16912.0	12614.1
60°	2009.1	2072.4	2372.4	3081.4	4463.8	6566.6	10411.3	14247.2	16819.6	16876.6	12835.6
62.5°	1202.7	1229.3	1424.2	1857.2	2877.5	4792.9	8519.9	12962.2	16476.5	16650.0	12820.4
65°	773.5	779.8	868.5	1124.2	1798.9	3239.6	6565.3	11264.6	15589.1	15908.1	12319.1
67.5°	597.5	607.7	643.1	738.1	1043.2	2017.9	4643.6	9453.0	14153.5	14564.9	11103.8
70°	530.4	535.5	548.2	578.5	690.0	1139.4	2888.9	7384.4	11736.8	11853.2	8689.6
72.5°	433.0	446.9	486.1	496.3	546.9	711.5	1607.8	4956.3	7885.7	7914.8	4861.3
75°	335.5	338.0	396.2	425.4	460.8	489.9	717.8	2499.0	3787.8	3585.2	1873.6
77.5°	250.7	262.1	288.6	325.4	376.0	350.7	321.6	941.9	1176.1	1154.6	544.4
80°	160.8	167.1	201.3	244.3	292.4	229.1	181.0	276.0	258.3	265.9	130.4
82.5°	81.0	82.3	129.1	198.8	186.1	115.2	113.9	112.7	96.2	94.9	60.8
85°	8.9	19.0	83.6	113.9	83.6	38.0	53.2	51.9	50.6	51.9	35.4
87.5°	1.3	1.3	13.9	16.5	11.4	12.7	15.2	16.5	20.3	19.0	15.2
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°	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6
2.5°	1581.2	1530.6	1436.9	1347.0	1279.9	1236.8	1181.1	1160.9	1131.8	1128.0	1114.0
5°	1649.6	1553.3	1390.0	1260.9	1157.1	1078.6	1010.2	953.3	907.7	897.6	902.6
7.5°	1747.0	1604.0	1376.1	1200.1	1055.8	921.6	812.7	745.7	697.5	679.8	682.4
10°	1857.2	1671.1	1373.6	1135.6	915.3	750.7	631.7	572.2	544.4	534.2	522.8
12.5°	1987.6	1748.3	1367.2	1035.6	760.8	598.8	514.0	478.5	451.9	444.4	444.4
15°	2134.4	1830.6	1336.9	911.5	617.8	495.0	438.0	410.2	401.3	393.7	393.7
17.5°	2287.6	1911.6	1273.6	758.3	512.7	424.1	388.7	372.2	359.5	350.7	350.7
20°	2462.3	1991.4	1172.3	622.9	433.0	378.5	350.7	331.7	321.6	314.0	311.4
22.5°	2628.1	2055.9	1043.2	511.5	377.3	340.5	315.2	295.0	284.8	281.0	281.0
25°	2800.3	2095.2	887.4	422.8	344.3	308.9	281.0	264.6	255.7	253.2	251.9
27.5°	2967.4	2118.0	750.7	369.7	314.0	279.8	253.2	240.5	231.7	229.1	230.4
30°	3170.0	2121.8	617.8	331.7	287.4	251.9	227.9	216.5	211.4	208.9	207.6
32.5°	3375.1	2116.7	519.0	308.9	262.1	227.9	207.6	198.8	195.0	191.2	191.2
35°	3605.5	2090.1	441.8	286.1	238.0	207.6	189.9	182.3	177.2	173.4	172.2
37.5°	3891.6	2076.2	397.5	260.8	216.5	188.6	172.2	164.6	160.8	155.7	154.4
40°	4342.3	2138.2	383.6	238.0	195.0	170.9	155.7	146.9	141.8	136.7	135.5
42.5°	4904.4	2247.1	360.8	215.2	176.0	154.4	139.3	129.1	120.3	113.9	111.4
45°	5632.3	2390.1	325.4	191.2	159.5	136.7	122.8	110.1	98.7	93.7	92.4
47.5°	6395.7	2528.1	293.7	172.2	141.8	121.5	106.3	92.4	82.3	78.5	77.2
50°	6864.1	2556.0	273.4	150.6	124.1	105.1	89.9	77.2	70.9	67.1	67.1
52.5°	7078.0	2511.7	245.6	131.7	107.6	92.4	77.2	67.1	63.3	60.8	59.5
55°	7227.4	2443.3	208.9	113.9	92.4	78.5	68.4	60.8	55.7	53.2	51.9
57°	7314.7	2350.9	181.0	100.0	79.8	68.4	60.8	54.4	49.4	44.3	44.3
57.5°	7318.5	2315.5	173.4	98.7	76.0	65.8	59.5	53.2	46.8	41.8	40.5
60°	7205.9	2072.4	139.3	83.6	60.8	55.7	49.4	41.8	32.9	27.9	26.6
62.5°	6843.8	1763.5	115.2	70.9	49.4	43.0	35.4	31.6	22.8	16.5	16.5
65°	6295.6	1430.5	98.7	57.0	40.5	31.6	24.1	22.8	13.9	7.6	6.3
67.5°	5503.2	1114.0	83.6	46.8	34.2	22.8	16.5	15.2	7.6	2.5	0.0
70°	4192.9	759.6	69.6	38.0	25.3	16.5	11.4	8.9	5.1	1.3	0.0
72.5°	2416.7	417.8	58.2	29.1	19.0	12.7	8.9	5.1	5.1	0.0	0.0
75°	863.4	179.8	44.3	21.5	15.2	10.1	6.3	2.5	3.8	1.3	0.0
77.5°	274.7	96.2	29.1	16.5	12.7	7.6	5.1	2.5	2.5	1.3	0.0
80°	81.0	50.6	17.7	13.9	8.9	6.3	3.8	1.3	2.5	1.3	0.0
82.5°	44.3	25.3	13.9	10.1	8.9	5.1	3.8	1.3	1.3	1.3	0.0
85°	22.8	15.2	11.4	10.1	8.9	5.1	3.8	1.3	0.0	1.3	1.3
87.5°	12.7	11.4	11.4	10.1	8.9	6.3	3.8	1.3	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)