

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: P453921

Luminaire Tested: **GALN-SA5A-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453921
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-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 15334 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

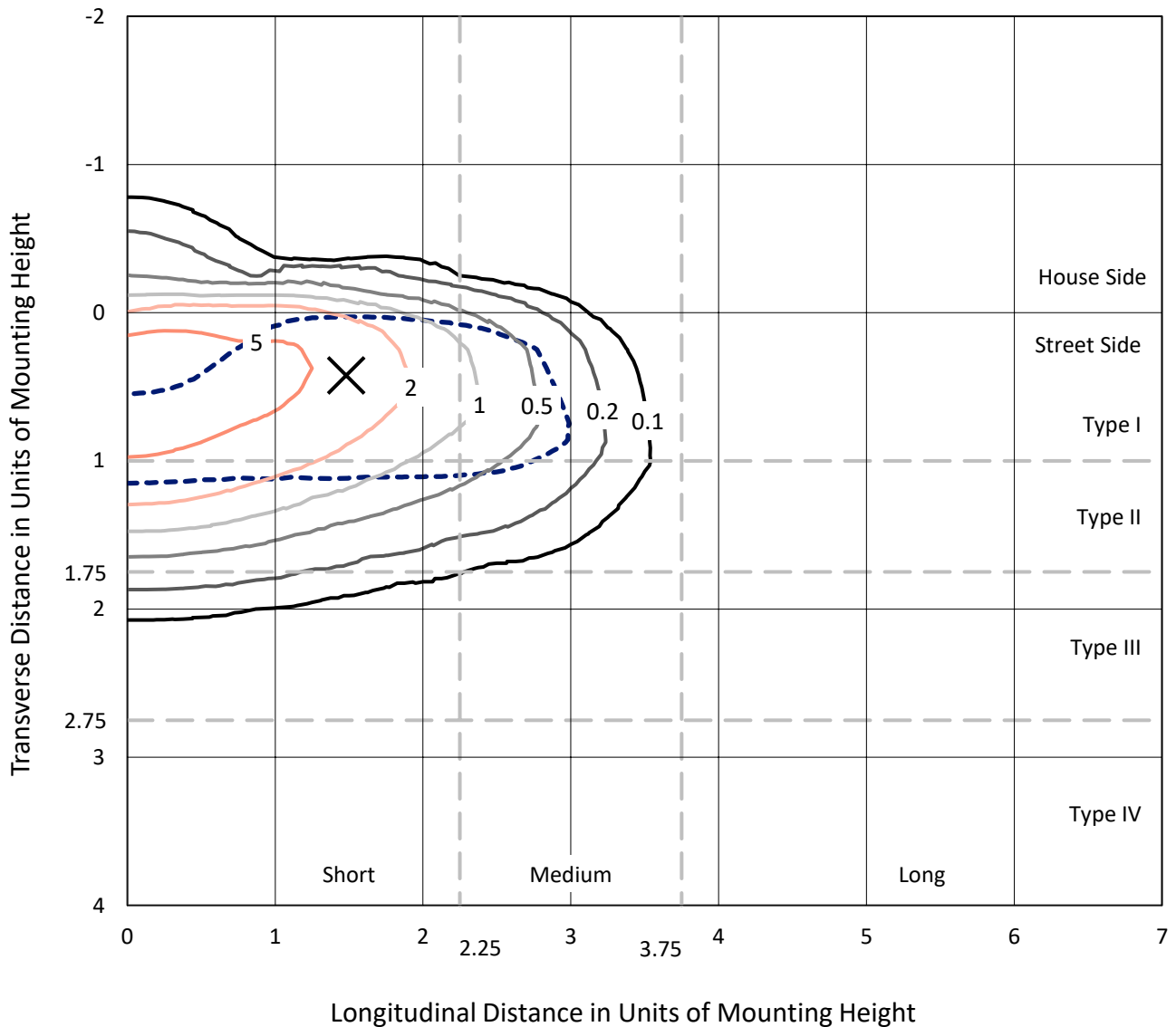
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

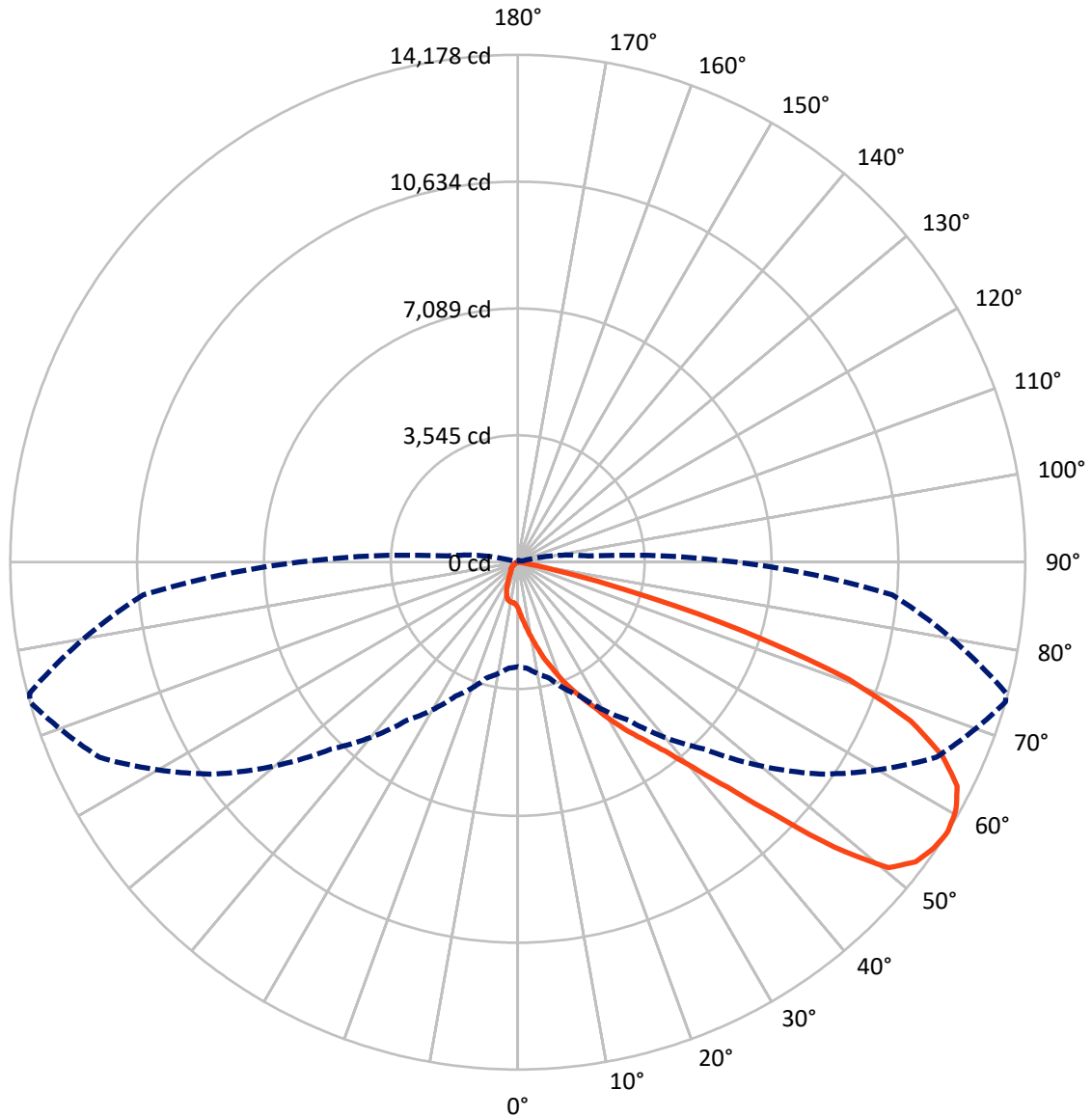
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	884.4	0.0	884.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	14449.6	0.0	14449.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	15334.0	0.0	15334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	1.0
10°-20°	611.0	4.0
20°-30°	1307.3	8.5
30°-40°	2402.9	15.7
40°-50°	3683.6	24.0
50°-60°	3896.8	25.4
60°-70°	2544.7	16.6
70°-80°	695.3	4.5
80°-90°	37.4	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°	15334.0	100.0
0°-180°	15334.0	100.0

Coefficient of Utilization



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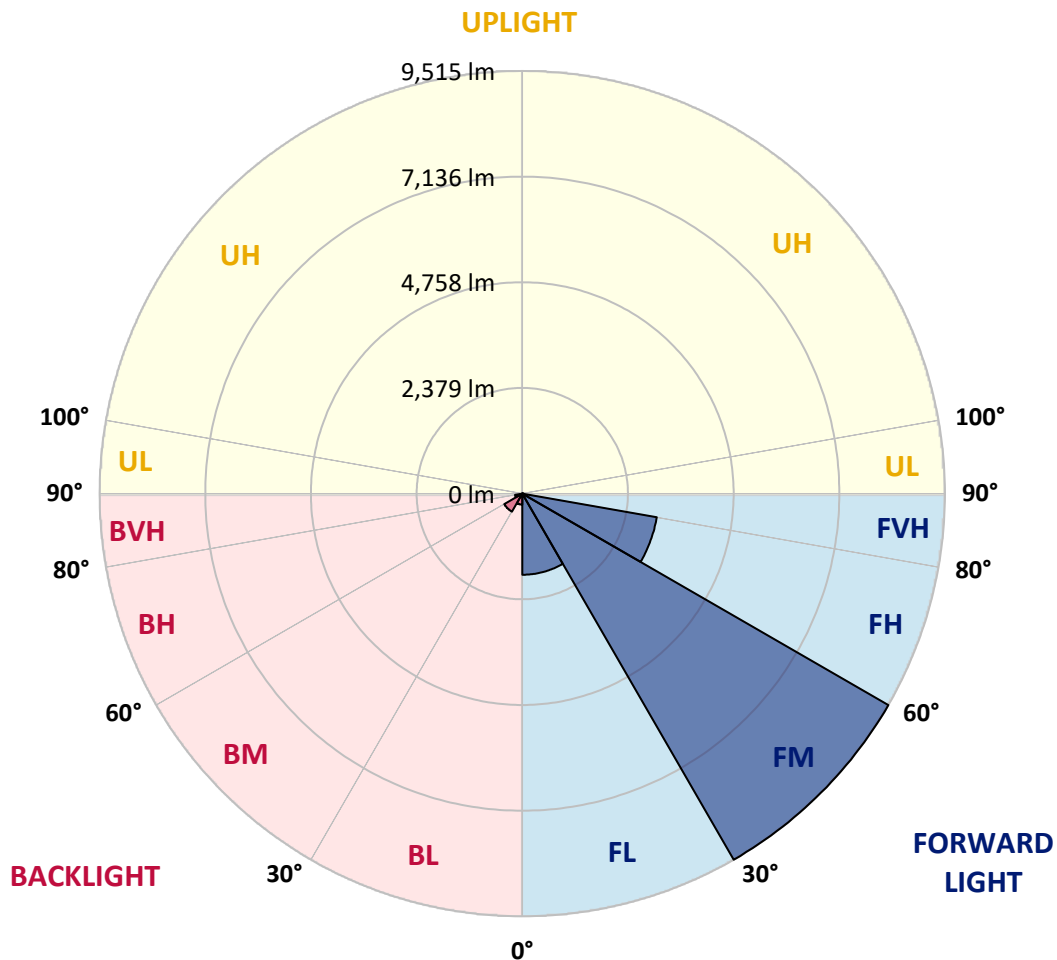
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1826.3	11.9			
FM (30°-60°)	9515.0	62.1			
FH (60°-80°)	3074.0	20.0			G2/5000
FVH (80°-90°)	34.3	0.2			G1/100
BL (0°-30°)	247.0	1.6	B1/500		
BM (30°-60°)	468.2	3.1	B1/1000		
BH (60°-80°)	166.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2
2.5°	1879.2	1862.3	1828.4	1816.7	1767.0	1689.7	1621.9	1530.9	1458.9	1451.5	1364.7
5°	2516.5	2478.4	2462.5	2386.3	2266.7	2154.5	1961.8	1815.7	1647.3	1634.6	1459.9
7.5°	3130.6	3077.6	3061.8	2989.8	2850.0	2673.2	2423.4	2157.6	1890.8	1866.5	1588.0
10°	3575.2	3582.6	3554.1	3506.4	3393.1	3213.2	2905.1	2541.9	2161.9	2131.2	1732.0
12.5°	3893.9	3892.8	3898.1	3897.1	3836.7	3700.2	3376.2	2958.0	2460.4	2400.1	1897.2
15°	4101.4	4104.6	4120.5	4175.5	4181.9	4097.2	3827.2	3356.1	2806.6	2731.4	2076.1
17.5°	4311.0	4333.3	4358.7	4410.5	4457.1	4423.2	4232.7	3771.1	3120.0	3063.9	2267.7
20°	4657.2	4687.9	4673.1	4704.9	4729.2	4732.4	4585.2	4154.3	3500.1	3405.8	2486.9
22.5°	5210.9	5209.9	5171.7	5114.6	5066.9	5064.8	4931.4	4548.2	3845.2	3754.1	2707.1
25°	5910.7	5913.9	5839.8	5676.7	5558.2	5413.1	5259.6	4893.3	4214.7	4102.5	2938.9
27.5°	6713.2	6693.1	6580.9	6356.4	6121.4	5873.7	5652.4	5294.6	4606.4	4513.2	3204.7
30°	7434.2	7426.8	7295.5	7021.3	6712.2	6463.4	6142.6	5797.4	5113.5	4999.2	3502.2
32.5°	8105.4	8116.0	7933.9	7650.2	7351.6	7064.7	6725.9	6278.1	5611.1	5449.1	3826.1
35°	8629.5	8640.0	8451.6	8215.5	7908.5	7670.3	7347.4	6790.5	6102.3	5965.8	4198.8
37.5°	8909.0	8922.7	8813.7	8635.8	8444.2	8324.6	8023.9	7450.1	6699.5	6616.9	4639.2
40°	8961.9	8977.8	8930.1	8882.5	8871.9	8957.7	8869.8	8227.2	7527.4	7398.2	5295.6
42.5°	8803.1	8824.3	8845.4	8951.3	9167.3	9481.7	9787.7	9281.6	8593.5	8419.8	6098.1
45°	8386.0	8383.8	8467.5	8741.7	9225.5	9896.7	10746.9	10601.8	10046.0	9839.6	7232.0
47.5°	7672.4	7661.8	7842.8	8233.5	8987.3	9972.9	11529.2	12204.7	11899.8	11709.2	8450.5
50°	6585.1	6637.0	6921.8	7467.0	8395.5	9742.2	11770.6	13256.0	13421.1	13218.9	9435.1
52.5°	5311.5	5309.4	5756.1	6496.2	7518.9	9234.0	11602.3	13446.5	13915.5	13761.0	9920.0
55°	3931.0	3958.5	4423.2	5169.6	6380.8	8306.6	11052.8	13250.7	14104.0	13994.9	10239.7
57°	2924.1	2972.8	3345.5	4135.3	5389.8	7388.7	10321.3	12900.3	14178.1	14118.8	10505.5
57.5°	2729.3	2731.4	3094.6	3812.4	5099.8	7036.1	10111.6	12754.2	14176.0	14143.2	10548.9
60°	1680.2	1733.1	1984.0	2576.9	3733.0	5491.5	8706.7	11914.6	14065.9	14113.5	10734.2
62.5°	1005.8	1028.0	1191.0	1553.1	2406.4	4008.2	7125.0	10840.0	13779.0	13924.0	10721.5
65°	646.9	652.2	726.3	940.1	1504.4	2709.2	5490.4	9420.3	13036.8	13303.6	10302.2
67.5°	499.7	508.2	537.8	617.2	872.4	1687.6	3883.3	7905.3	11836.3	12180.3	9285.9
70°	443.6	447.8	458.4	483.8	577.0	952.8	2416.0	6175.4	9815.2	9912.6	7266.9
72.5°	362.1	373.7	406.5	415.0	457.4	595.0	1344.5	4144.8	6594.6	6619.0	4065.4
75°	280.6	282.7	331.4	355.7	385.4	409.7	600.3	2089.9	3167.6	2998.2	1566.9
77.5°	209.6	219.2	241.4	272.1	314.4	293.3	268.9	787.7	983.5	965.5	455.2
80°	134.5	139.7	168.3	204.3	244.6	191.6	151.4	230.8	216.0	222.3	109.0
82.5°	67.8	68.8	108.0	166.2	155.6	96.3	95.3	94.2	80.5	79.4	50.8
85°	7.4	15.9	69.9	95.3	69.9	31.8	44.5	43.4	42.3	43.4	29.6
87.5°	1.1	1.1	11.6	13.8	9.5	10.6	12.7	13.8	16.9	15.9	12.7
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°	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2
2.5°	1322.3	1280.0	1201.6	1126.5	1070.3	1034.3	987.8	970.8	946.5	943.3	931.7
5°	1379.5	1299.0	1162.5	1054.5	967.7	902.0	844.8	797.2	759.1	750.6	754.9
7.5°	1461.0	1341.4	1150.8	1003.6	883.0	770.7	679.7	623.6	583.3	568.5	570.6
10°	1553.1	1397.5	1148.7	949.7	765.4	627.8	528.3	478.5	455.2	446.8	437.2
12.5°	1662.2	1462.1	1143.4	866.0	636.3	500.8	429.8	400.2	378.0	371.6	371.6
15°	1785.0	1530.9	1118.0	762.3	516.6	414.0	366.3	343.0	335.6	329.3	329.3
17.5°	1913.1	1598.6	1065.1	634.2	428.8	354.7	325.0	311.3	300.7	293.3	293.3
20°	2059.2	1665.3	980.4	520.9	362.1	316.6	293.3	277.4	268.9	262.6	260.4
22.5°	2197.9	1719.3	872.4	427.7	315.5	284.8	263.6	246.7	238.2	235.0	235.0
25°	2341.8	1752.1	742.1	353.6	288.0	258.3	235.0	221.3	213.9	211.7	210.7
27.5°	2481.6	1771.2	627.8	309.1	262.6	234.0	211.7	201.2	193.7	191.6	192.7
30°	2651.0	1774.4	516.6	277.4	240.3	210.7	190.6	181.0	176.8	174.7	173.6
32.5°	2822.5	1770.1	434.1	258.3	219.2	190.6	173.6	166.2	163.0	159.9	159.9
35°	3015.2	1747.9	369.5	239.3	199.0	173.6	158.8	152.5	148.2	145.0	144.0
37.5°	3254.4	1736.3	332.4	218.1	181.0	157.7	144.0	137.6	134.5	130.2	129.2
40°	3631.3	1788.1	320.8	199.0	163.0	142.9	130.2	122.8	118.6	114.3	113.3
42.5°	4101.4	1879.2	301.7	180.0	147.2	129.2	116.5	108.0	100.6	95.3	93.2
45°	4710.2	1998.8	272.1	159.9	133.4	114.3	102.7	92.1	82.6	78.3	77.3
47.5°	5348.6	2114.2	245.6	144.0	118.6	101.6	88.9	77.3	68.8	65.6	64.6
50°	5740.3	2137.5	228.7	126.0	103.8	87.9	75.2	64.6	59.3	56.1	56.1
52.5°	5919.2	2100.5	205.4	110.1	90.0	77.3	64.6	56.1	52.9	50.8	49.8
55°	6044.1	2043.3	174.7	95.3	77.3	65.6	57.2	50.8	46.6	44.5	43.4
57°	6117.2	1966.0	151.4	83.6	66.7	57.2	50.8	45.5	41.3	37.1	37.1
57.5°	6120.3	1936.4	145.0	82.6	63.5	55.1	49.8	44.5	39.2	34.9	33.9
60°	6026.1	1733.1	116.5	69.9	50.8	46.6	41.3	34.9	27.5	23.3	22.2
62.5°	5723.3	1474.8	96.3	59.3	41.3	36.0	29.6	26.5	19.1	13.8	13.8
65°	5264.9	1196.3	82.6	47.6	33.9	26.5	20.1	19.1	11.6	6.4	5.3
67.5°	4602.2	931.7	69.9	39.2	28.6	19.1	13.8	12.7	6.4	2.1	0.0
70°	3506.4	635.2	58.2	31.8	21.2	13.8	9.5	7.4	4.2	1.1	0.0
72.5°	2021.1	349.4	48.7	24.4	15.9	10.6	7.4	4.2	4.2	0.0	0.0
75°	722.0	150.3	37.1	18.0	12.7	8.5	5.3	2.1	3.2	1.1	0.0
77.5°	229.7	80.5	24.4	13.8	10.6	6.4	4.2	2.1	2.1	1.1	0.0
80°	67.8	42.3	14.8	11.6	7.4	5.3	3.2	1.1	2.1	1.1	0.0
82.5°	37.1	21.2	11.6	8.5	7.4	4.2	3.2	1.1	1.1	1.1	0.0
85°	19.1	12.7	9.5	8.5	7.4	4.2	3.2	1.1	0.0	1.1	1.1
87.5°	10.6	9.5	9.5	8.5	7.4	5.3	3.2	1.1	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)