

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: P530775

Luminaire Tested: **GALN-SA6A-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18845 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

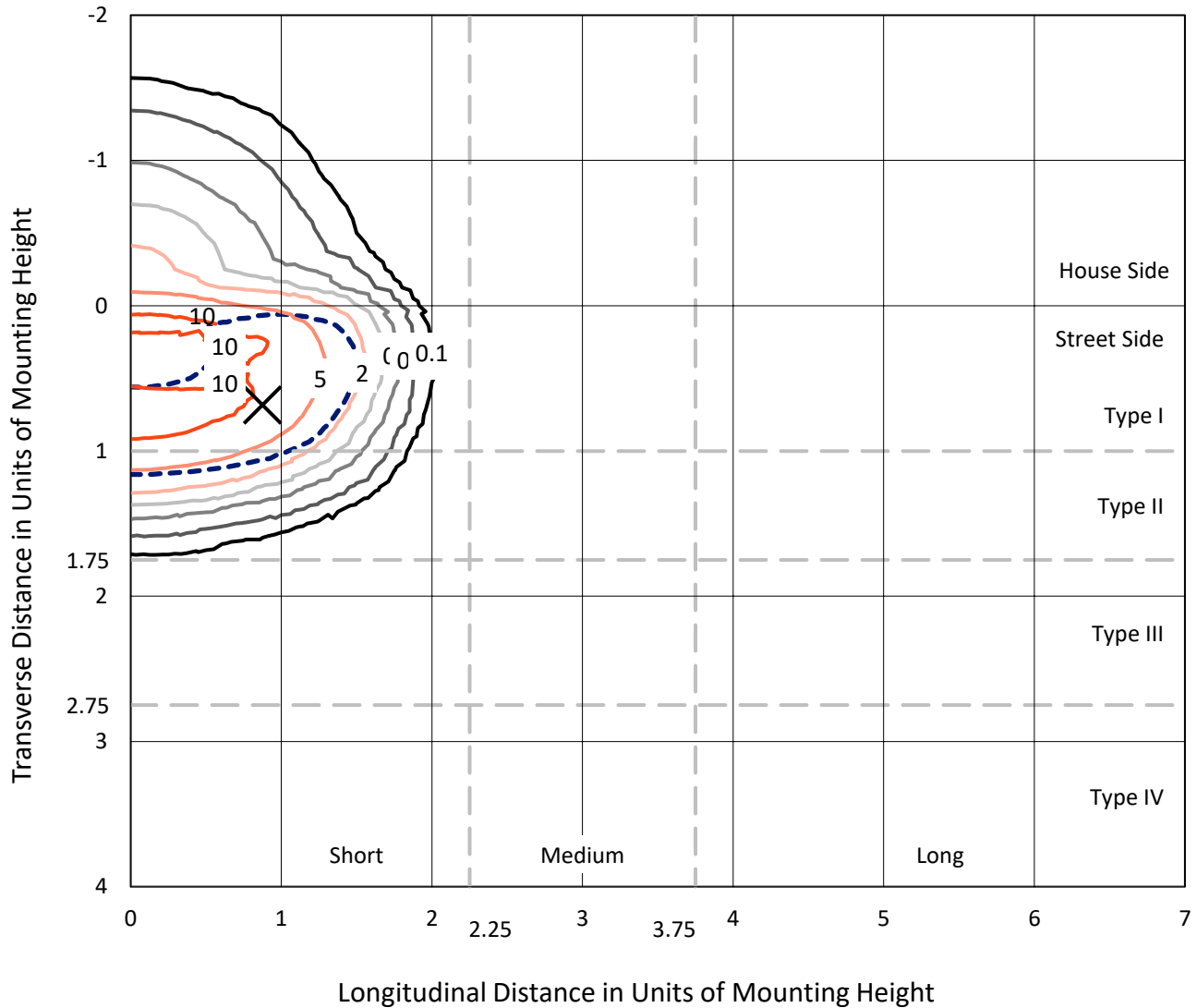
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

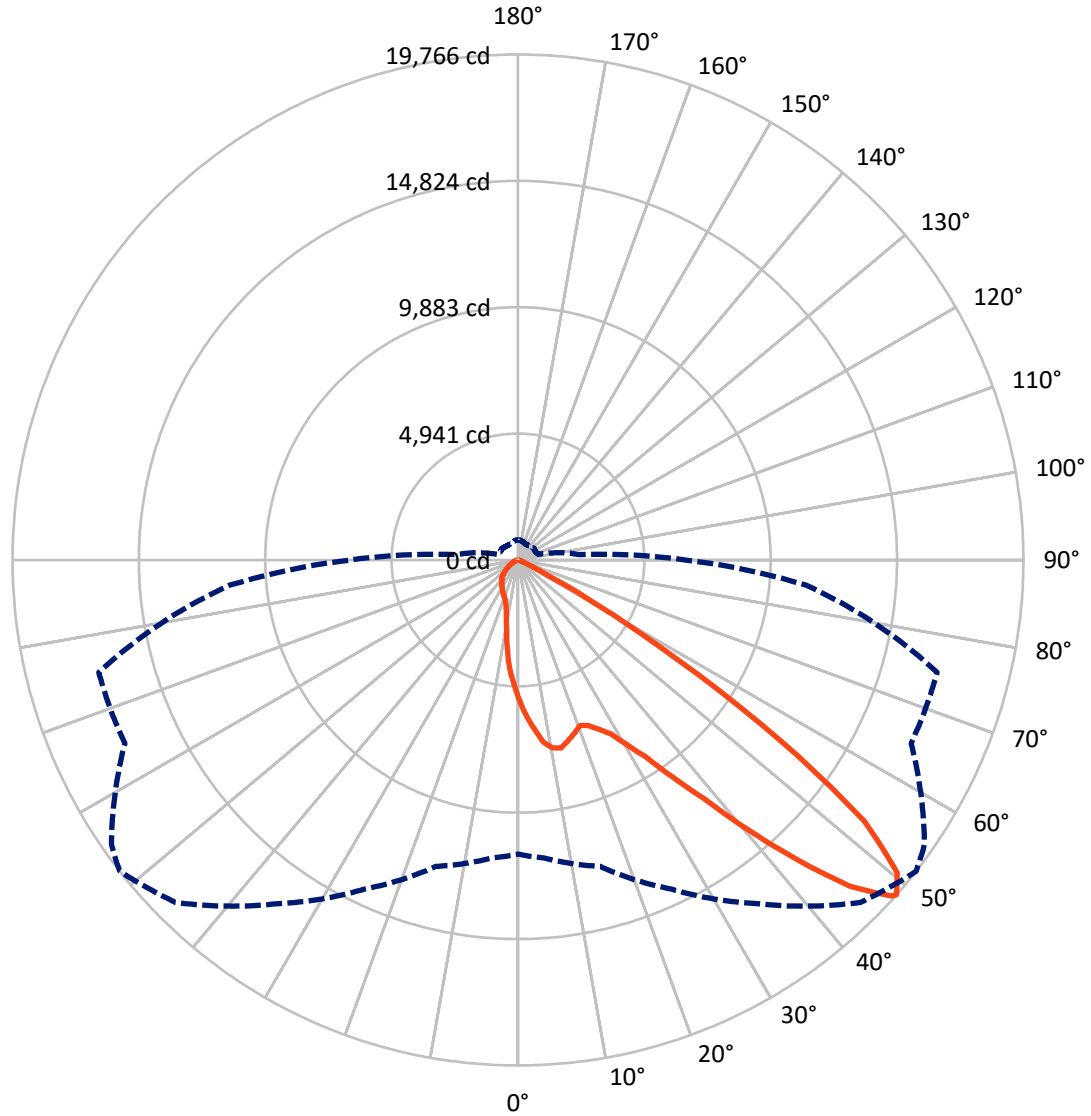
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2294.5	0.0	2294.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	16550.5	0.0	16550.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	18845.0	0.0	18845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.1	2.6
10°-20°	1301.7	6.9
20°-30°	2222.6	11.8
30°-40°	4092.9	21.7
40°-50°	6356.3	33.7
50°-60°	3825.4	20.3
60°-70°	442.4	2.3
70°-80°	85.6	0.5
80°-90°	19.8	0.1
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°	18845.0	100.0
0°-180°	18845.0	100.0

Coefficient of Utilization



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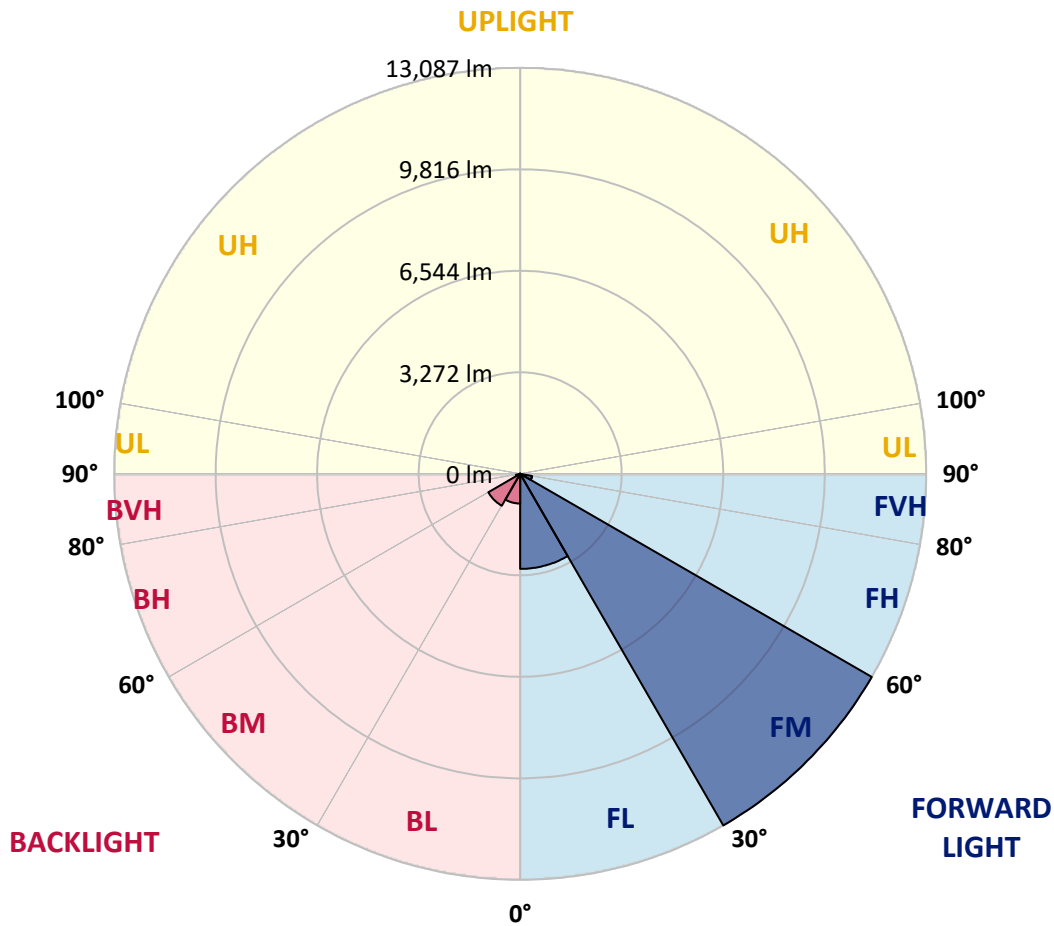
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3064.0	16.3			
FM (30°-60°)	13087.5	69.4			
FH (60°-80°)	389.6	2.1			G0/660
FVH (80°-90°)	9.4	0.0			G0/10
BL (0°-30°)	958.5	5.1	B2/1000		
BM (30°-60°)	1187.2	6.3	B2/2500		
BH (60°-80°)	138.5	0.7	B1/500		G1/500
BVH (80°-90°)	10.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1
2.5°	6595.9	6444.8	6458.6	6359.7	6302.0	6208.6	6082.2	6057.5	5920.1	5733.3	5543.8
5°	7189.3	7153.6	7200.3	7057.5	7062.9	6909.1	6612.4	6617.9	6302.0	5997.0	5703.1
7.5°	7227.8	7145.4	7192.1	7318.4	7392.6	7365.1	7197.6	7052.0	6752.5	6304.7	5876.2
10°	6472.3	6628.9	6678.3	6887.1	7183.8	7497.0	7477.8	7486.0	7236.0	6650.9	6024.5
12.5°	6019.0	5914.6	6082.2	6208.6	6656.4	7263.5	7541.0	7601.4	7620.6	6986.0	6172.9
15°	5813.0	5813.0	5840.5	5876.2	6200.3	6760.8	7326.7	7502.5	7917.3	7425.6	6406.4
17.5°	5942.1	5936.6	5975.1	5900.9	6021.8	6453.1	7128.9	7329.4	8249.7	7856.9	6590.4
20°	6334.9	6354.2	6329.5	6115.2	6123.4	6447.6	6909.1	7225.0	8475.0	8230.5	6834.9
22.5°	6881.6	6892.6	6752.5	6519.0	6450.3	6609.7	7035.5	7277.2	8656.3	8678.3	6909.1
25°	7513.5	7469.5	7442.1	7112.4	6903.6	7041.0	7321.2	7461.3	8768.9	9062.9	7120.6
27.5°	8389.8	8301.9	8134.3	7840.4	7686.6	7491.5	7692.0	7922.8	9090.4	9601.3	7351.4
30°	9683.7	9606.8	9279.9	8900.8	8497.0	8304.7	8367.8	8494.2	9670.0	10224.9	7656.3
32.5°	11631.5	11469.4	10996.9	10274.4	9724.9	9194.7	9178.3	9312.9	10189.2	11087.5	8019.0
35°	13777.0	13727.6	13032.5	12288.0	11224.9	10406.2	10420.0	10491.4	11183.7	12219.4	8494.2
37.5°	15202.8	15474.7	15032.5	14233.0	13340.2	12169.9	11873.2	11897.9	12549.0	13560.0	9351.3
40°	16304.4	16073.6	16125.8	15939.0	15329.2	14532.5	13875.9	13746.8	14128.6	15043.4	10203.0
42.5°	15823.6	15834.6	16156.0	16598.3	16749.4	16691.7	16021.4	15776.9	15480.2	16257.7	11013.4
45°	14466.5	14749.5	15167.1	16337.4	17364.8	18329.0	18197.2	17790.6	16414.3	17219.2	11480.4
47.5°	12301.8	12290.8	12974.8	14496.8	16779.7	19037.8	19636.7	19351.0	17076.3	17112.1	11384.2
48°	11502.4	11700.2	12406.2	14197.3	16408.8	18933.4	19765.8	19405.9	16963.7	16969.2	11301.8
50°	8502.5	8466.7	9345.8	11543.6	14656.1	17790.6	19221.9	19502.1	16961.0	16246.7	10724.9
52.5°	4491.6	4645.4	5285.5	7258.0	10362.3	14559.9	16955.5	17392.3	16362.1	15065.4	9895.3
55°	1909.3	1725.2	2217.0	3277.4	5829.5	9727.7	12439.1	13411.6	13834.7	13332.0	8656.3
57.5°	681.3	744.5	857.1	1233.5	2450.5	5324.0	7417.3	8172.8	9584.8	9782.6	5898.2
60°	436.8	445.0	480.8	565.9	920.3	2052.1	3519.1	4120.7	4760.8	4914.7	2752.7
62.5°	337.9	340.6	357.1	370.9	436.8	796.7	1321.4	1565.9	1626.3	1398.3	722.5
65°	283.0	285.7	291.2	291.2	310.4	373.6	461.5	508.2	494.5	489.0	409.3
67.5°	217.0	222.5	233.5	233.5	244.5	228.0	255.5	272.0	307.7	373.6	348.9
70°	170.3	173.1	181.3	186.8	186.8	164.8	184.1	200.5	225.3	277.5	274.7
72.5°	131.9	137.4	142.9	142.9	134.6	112.6	131.9	145.6	162.1	192.3	186.8
75°	101.6	101.6	104.4	85.2	65.9	57.7	79.7	96.2	120.9	126.4	104.4
77.5°	27.5	30.2	27.5	24.7	27.5	41.2	52.2	60.4	76.9	76.9	68.7
80°	0.0	2.7	8.2	16.5	27.5	38.5	46.7	52.2	60.4	65.9	63.2
82.5°	0.0	2.7	8.2	16.5	24.7	30.2	41.2	44.0	49.4	57.7	57.7
85°	0.0	2.7	5.5	11.0	16.5	19.2	19.2	16.5	16.5	13.7	11.0
87.5°	0.0	0.0	2.7	5.5	5.5	8.2	8.2	8.2	8.2	8.2	8.2
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°	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1	5442.1
2.5°	5469.6	5384.4	5255.3	5052.0	4857.0	4730.6	4609.7	4475.1	4400.9	4395.5	4354.2
5°	5535.5	5343.2	5035.5	4686.7	4313.0	3991.6	3667.5	3455.9	3266.4	3162.0	3142.8
7.5°	5571.2	5321.2	4824.0	4238.9	3601.5	3076.8	2714.2	2447.7	2343.3	2266.4	2263.7
10°	5645.4	5282.8	4508.1	3645.5	2857.0	2326.8	2076.9	1956.0	1898.3	1876.3	1843.3
12.5°	5700.4	5211.4	4183.9	3035.6	2258.2	1928.5	1818.6	1791.1	1793.9	1804.9	1791.1
15°	5777.3	5148.2	3747.1	2491.7	1895.5	1736.2	1736.2	1741.7	1780.2	1785.7	1782.9
17.5°	5771.8	5024.6	3296.6	2052.1	1675.8	1653.8	1662.0	1714.2	1739.0	1747.2	1728.0
20°	5837.7	4909.2	2832.3	1752.7	1552.1	1585.1	1640.1	1653.8	1684.0	1689.5	1667.5
22.5°	5818.5	4620.7	2401.0	1516.4	1458.7	1521.9	1576.9	1593.4	1585.1	1568.6	1565.9
25°	5782.8	4373.5	2005.4	1359.8	1390.1	1458.7	1510.9	1480.7	1464.2	1467.0	1469.7
27.5°	5719.6	4060.3	1678.5	1250.0	1296.7	1398.3	1395.6	1384.6	1401.1	1387.3	1401.1
30°	5708.6	3747.1	1409.3	1151.1	1228.0	1302.2	1307.6	1326.9	1346.1	1321.4	1346.1
32.5°	5725.1	3403.7	1217.0	1090.6	1186.8	1189.5	1250.0	1269.2	1255.5	1200.5	1206.0
35°	5851.4	3140.0	1076.9	1057.7	1120.8	1123.6	1181.3	1156.6	1096.1	1063.2	1082.4
37.5°	6117.9	2920.2	1011.0	1027.4	1032.9	1068.6	1071.4	1021.9	1027.4	1024.7	1035.7
40°	6458.6	2752.7	964.3	1000.0	994.5	1019.2	920.3	947.8	972.5	980.7	986.2
42.5°	6692.1	2631.8	934.0	956.0	945.0	901.1	846.1	873.6	892.8	923.0	928.5
45°	6796.5	2535.6	898.3	879.1	879.1	799.4	777.4	782.9	826.9	859.9	854.4
47.5°	6626.1	2442.2	835.1	777.4	796.7	730.7	706.0	706.0	752.7	793.9	785.7
48°	6560.2	2403.8	837.9	755.5	769.2	719.8	695.0	689.5	741.7	780.2	780.2
50°	6233.3	2260.9	766.5	695.0	667.6	662.1	645.6	651.1	684.0	719.8	719.8
52.5°	5596.0	1953.2	648.3	596.1	546.7	579.7	587.9	576.9	593.4	626.4	623.6
55°	4670.2	1499.9	519.2	494.5	456.0	491.7	508.2	494.5	478.0	502.7	502.7
57.5°	2991.7	807.7	414.8	420.3	381.9	417.6	431.3	398.3	368.1	387.3	384.6
60°	1348.9	483.5	340.6	332.4	307.7	348.9	370.9	332.4	291.2	304.9	318.7
62.5°	505.5	343.4	258.2	252.7	247.2	285.7	296.7	266.5	225.3	233.5	236.3
65°	370.9	302.2	206.0	186.8	197.8	225.3	219.8	189.6	162.1	162.1	167.6
67.5°	315.9	263.7	167.6	145.6	145.6	148.3	137.4	120.9	112.6	118.1	123.6
70°	247.2	208.8	131.9	112.6	101.6	90.7	79.7	76.9	68.7	76.9	74.2
72.5°	159.3	140.1	101.6	85.2	76.9	63.2	52.2	49.4	41.2	38.5	38.5
75°	85.2	85.2	79.7	68.7	60.4	49.4	41.2	33.0	22.0	16.5	16.5
77.5°	60.4	65.9	71.4	65.9	54.9	41.2	33.0	22.0	11.0	5.5	5.5
80°	57.7	65.9	71.4	63.2	54.9	41.2	30.2	16.5	8.2	2.7	2.7
82.5°	52.2	60.4	65.9	57.7	49.4	35.7	27.5	16.5	8.2	2.7	2.7
85°	11.0	13.7	16.5	16.5	19.2	24.7	19.2	13.7	5.5	2.7	2.7
87.5°	8.2	8.2	8.2	8.2	8.2	8.2	5.5	5.5	2.7	2.7	2.7
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)