

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: P647508

Luminaire Tested: **GALN-SA6D-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21188 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

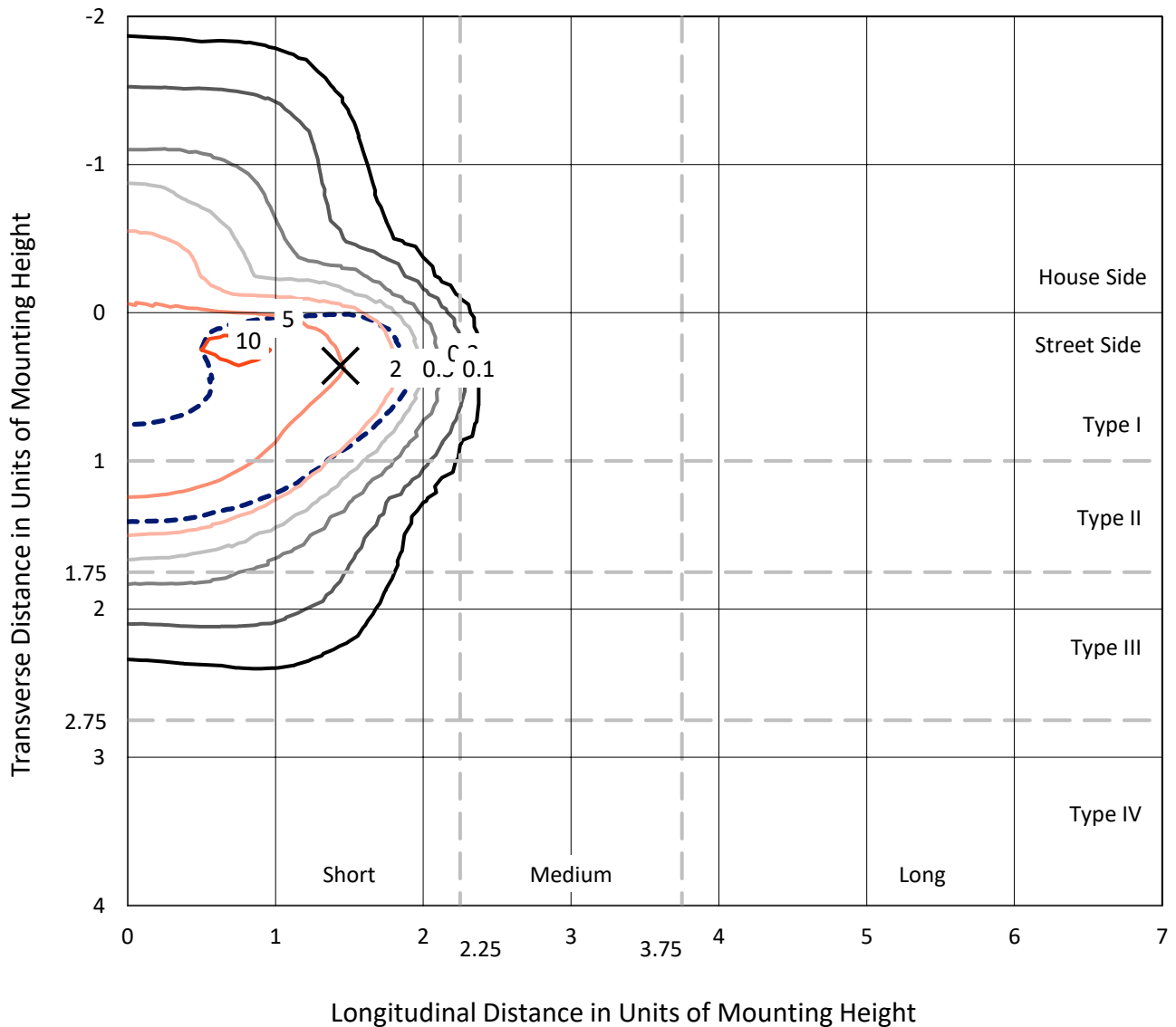
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

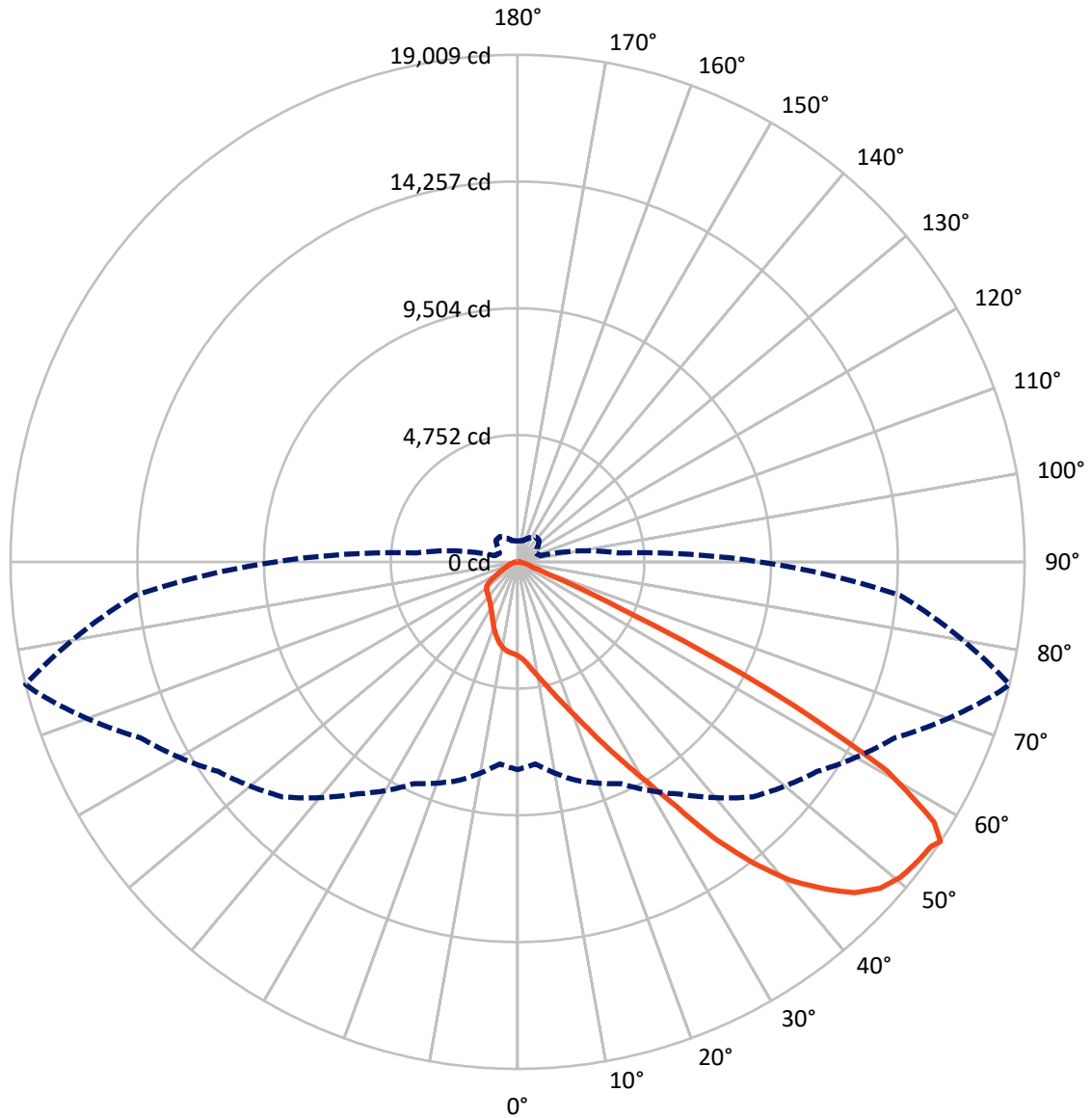
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3328.5	0.0	3328.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	17859.5	0.0	17859.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	21188.0	0.0	21188.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.3	1.7
10°-20°	1141.4	5.4
20°-30°	2069.6	9.8
30°-40°	3569.1	16.8
40°-50°	5798.1	27.4
50°-60°	6111.4	28.8
60°-70°	1867.3	8.8
70°-80°	239.4	1.1
80°-90°	36.4	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°	21188.0	100.0
0°-180°	21188.0	100.0

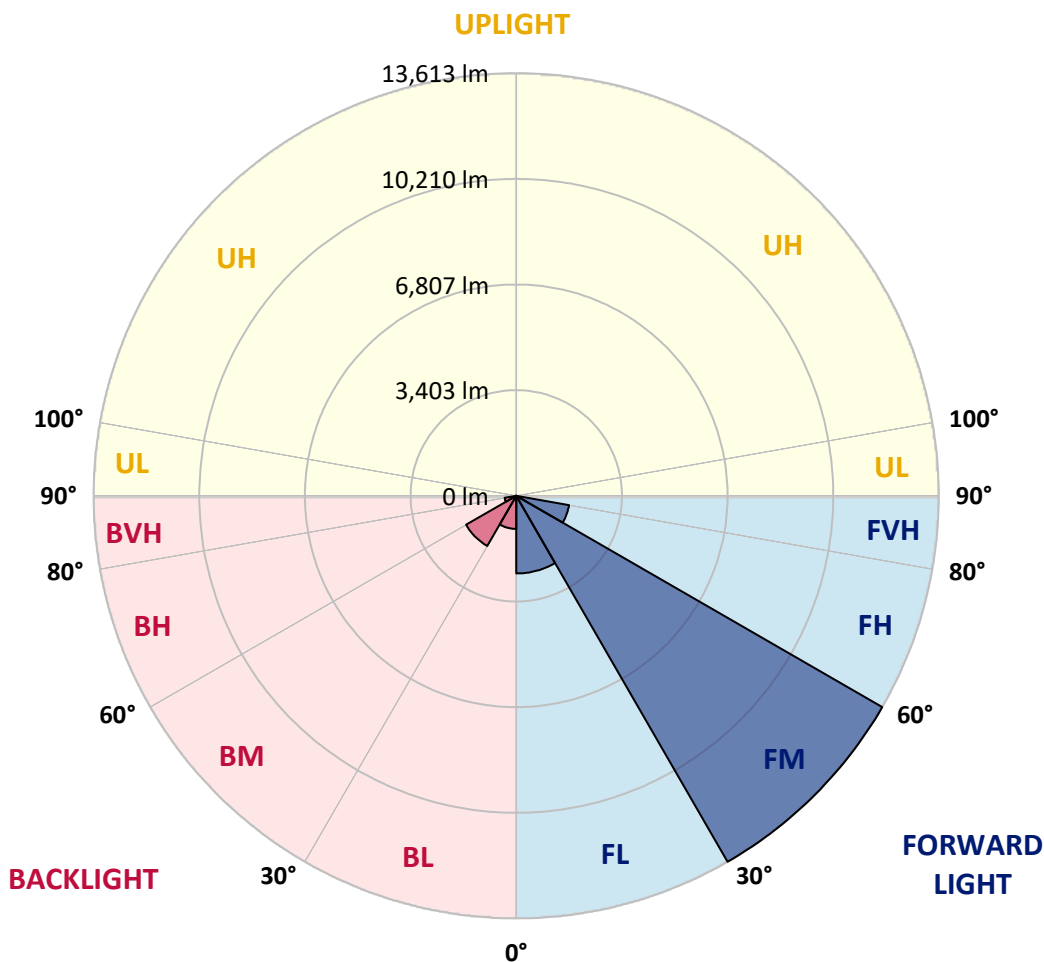


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2501.4	11.8			
FM (30°-60°)	13613.3	64.2			
FH (60°-80°)	1727.0	8.2			G1/1800
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	1064.8	5.0	B3/2500		
BM (30°-60°)	1865.4	8.8	B2/2500		
BH (60°-80°)	379.7	1.8	B1/500		G1/500
BVH (80°-90°)	18.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8
2.5°	4061.8	3968.1	3972.0	3964.2	3952.5	3909.5	3780.6	3761.1	3675.2	3651.8	3573.6
5°	4550.0	4468.0	4514.9	4444.6	4378.2	4339.2	4128.2	4030.6	3893.9	3843.1	3733.7
7.5°	4854.7	4815.6	4800.0	4803.9	4741.5	4643.8	4550.0	4335.2	4151.7	4112.6	3882.2
10°	5003.1	4979.6	5003.1	4991.4	5018.7	5030.5	4866.4	4737.5	4468.0	4401.6	4042.3
12.5°	5038.2	5085.1	5104.6	5155.4	5221.8	5335.0	5323.4	5147.6	4788.3	4745.3	4288.3
15°	5124.2	5163.3	5143.7	5225.7	5350.7	5542.1	5643.6	5616.3	5229.7	5151.5	4573.5
17.5°	5202.3	5132.0	5198.3	5362.4	5487.4	5780.3	6026.4	6139.7	5710.0	5620.2	4835.2
20°	5307.7	5288.2	5276.5	5358.5	5581.1	5971.7	6459.9	6666.9	6249.0	6155.2	5210.1
22.5°	5628.0	5631.9	5624.1	5503.0	5663.1	6104.5	6838.7	7350.3	6893.4	6815.3	5635.8
25°	6049.8	5999.0	5960.0	5862.3	5842.8	6225.6	7221.5	8186.2	7666.7	7612.0	6096.7
27.5°	6495.1	6495.1	6377.8	6288.0	6163.1	6526.3	7573.0	8998.5	8600.2	8525.9	6499.0
30°	6979.3	7006.7	6991.0	6799.7	6721.6	6854.4	7932.3	10037.4	9670.3	9576.6	7162.9
32.5°	7694.1	7635.5	7701.9	7541.8	7311.3	7428.5	8498.6	10966.9	11060.7	10927.9	8033.8
35°	8639.2	8604.1	8561.1	8299.4	8026.1	8119.8	9299.3	12111.3	12806.5	12740.1	8912.7
37.5°	9486.7	9467.2	9432.1	9252.4	8936.1	9049.3	10209.3	13302.5	14509.4	14290.6	10154.6
40°	10377.3	10482.6	10369.4	10209.3	9920.3	10170.2	11279.4	14009.4	15942.7	15677.1	11103.6
42.5°	11584.1	11502.0	11552.8	11259.9	11103.6	11377.1	12353.5	14716.3	17055.9	16739.4	12111.3
45°	12869.0	12872.9	12736.2	12642.5	12236.3	12533.1	13013.5	15106.9	17942.4	17696.3	12872.9
47.5°	13693.1	13689.2	13837.6	13986.0	13568.1	13275.2	13462.7	15478.0	18399.3	18286.1	13150.2
50°	13564.2	13603.3	13794.7	14349.3	14567.9	14173.5	13884.5	15368.6	18606.4	18594.6	13388.4
52.5°	11798.9	11927.8	12248.0	13048.7	14150.1	14638.3	14325.8	15571.7	18707.9	18727.4	13743.8
55°	8982.9	9053.2	9662.5	10635.0	11853.5	13525.2	14150.1	15731.8	18786.0	18821.1	14173.5
56°	7791.7	7604.3	8483.0	9174.3	10631.1	12458.9	13704.8	15606.8	18739.1	19008.7	14388.3
57.5°	5881.9	5756.9	6467.7	7330.8	8733.0	10662.3	12322.2	15017.1	18422.8	18418.9	14079.7
60°	3577.5	3452.6	3999.3	4507.1	5292.1	6565.4	8326.7	11959.0	15575.6	15903.7	11400.5
62.5°	2128.6	2206.7	2745.7	3054.2	3308.0	3440.8	4307.9	7108.2	10392.8	10627.2	7073.1
65°	1417.7	1445.1	1851.2	2359.0	2472.2	1968.5	1753.6	2878.5	4507.1	4362.6	2917.5
67.5°	874.8	937.3	1242.0	1773.2	1964.5	1437.3	831.9	1074.0	1242.0	1242.0	843.6
70°	531.2	562.4	828.0	1206.8	1347.5	925.7	605.3	605.3	597.6	585.8	503.9
72.5°	253.8	273.4	421.8	621.0	632.7	488.2	468.7	511.6	499.9	496.0	417.9
75°	109.4	117.1	148.4	195.3	222.6	207.0	285.1	367.1	378.8	367.1	300.8
77.5°	35.2	39.1	54.7	70.3	74.2	89.8	121.1	152.3	175.8	164.0	148.4
80°	3.9	7.8	15.7	35.2	54.7	70.3	89.8	101.6	113.3	113.3	105.5
82.5°	3.9	3.9	15.7	31.2	50.7	66.4	85.9	97.6	113.3	117.1	109.4
85°	0.0	3.9	11.7	27.3	43.0	43.0	39.1	39.1	27.3	27.3	27.3
87.5°	0.0	0.0	3.9	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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°	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8	3526.8
2.5°	3558.0	3550.2	3444.7	3378.3	3343.2	3272.9	3230.0	3198.7	3175.3	3147.9	3151.8
5°	3604.9	3577.5	3401.8	3280.7	3136.2	3058.1	2991.7	2937.0	2901.9	2894.0	2878.5
7.5°	3737.7	3593.2	3327.6	3108.9	2925.3	2847.2	2788.6	2753.5	2769.1	2733.9	2761.2
10°	3839.2	3624.4	3237.8	2921.4	2737.8	2679.3	2648.0	2675.4	2714.4	2698.8	2679.3
12.5°	3964.2	3655.7	3093.2	2741.8	2569.9	2526.9	2581.6	2632.4	2710.5	2741.8	2702.7
15°	4104.8	3690.8	2909.7	2534.7	2425.4	2460.5	2554.3	2644.1	2722.2	2761.2	2784.7
17.5°	4276.7	3679.1	2730.0	2370.7	2288.7	2390.3	2503.5	2585.5	2702.7	2761.2	2745.7
20°	4436.8	3640.0	2530.8	2206.7	2210.6	2304.3	2398.0	2530.8	2593.3	2671.4	2644.1
22.5°	4589.1	3569.7	2323.9	2093.4	2093.4	2237.9	2284.8	2370.7	2425.4	2464.4	2460.5
25°	4803.9	3437.0	2152.0	1984.0	2030.9	2124.7	2163.7	2191.1	2167.6	2198.9	2202.7
27.5°	4956.2	3300.3	2011.4	1886.4	1972.3	2042.6	2030.9	2015.3	1960.6	1917.6	1945.0
30°	5120.3	3140.1	1890.3	1820.0	1866.9	1929.4	1882.5	1835.7	1749.7	1679.4	1683.3
32.5°	5354.6	3065.9	1784.8	1741.9	1804.4	1812.2	1761.4	1691.1	1605.2	1538.8	1534.9
35°	5792.0	3019.0	1695.0	1691.1	1702.9	1706.8	1656.0	1570.1	1534.9	1480.3	1499.8
37.5°	6229.5	2995.6	1632.6	1616.9	1613.1	1616.9	1558.3	1476.3	1542.7	1538.8	1546.7
40°	6788.0	3101.1	1542.7	1523.2	1527.1	1527.1	1452.9	1429.4	1546.7	1558.3	1562.2
42.5°	7354.2	3233.9	1484.1	1421.6	1437.3	1437.3	1398.2	1370.9	1452.9	1374.8	1363.0
45°	7846.4	3429.1	1421.6	1320.1	1359.1	1378.7	1367.0	1320.1	1269.3	1136.5	1136.5
47.5°	8006.5	3600.9	1347.5	1222.4	1253.7	1339.6	1304.5	1206.8	1117.0	1007.6	999.8
50°	8287.7	3788.5	1288.8	1109.2	1175.6	1281.1	1245.9	1148.3	1046.7	968.6	972.5
52.5°	8576.7	4003.2	1179.5	976.4	1058.5	1234.2	1234.2	1124.8	968.6	913.9	906.1
55°	9010.3	3995.4	984.2	800.6	945.2	1163.9	1183.4	1007.6	867.0	824.1	824.1
56°	9072.8	3815.8	886.6	749.9	894.4	1144.4	1148.3	976.4	828.0	781.1	781.1
57.5°	8604.1	3444.7	777.2	687.4	831.9	1109.2	1113.1	949.1	796.8	730.4	722.6
60°	6620.0	2331.6	648.3	613.2	753.8	999.8	1019.4	863.2	699.1	648.3	644.4
62.5°	3737.7	1292.7	570.3	554.6	648.3	851.4	910.0	753.8	593.7	566.3	574.1
65°	1706.8	710.8	480.4	449.1	523.4	656.2	734.2	621.0	488.2	457.0	457.0
67.5°	624.9	484.3	410.1	355.4	367.1	425.7	476.5	402.3	324.2	277.3	289.0
70°	445.2	406.2	359.3	308.6	285.1	277.3	273.4	226.5	160.1	125.0	132.8
72.5°	359.3	335.9	300.8	261.7	222.6	187.5	160.1	117.1	74.2	50.7	46.9
75°	257.8	246.0	218.7	187.5	156.2	132.8	109.4	74.2	39.1	19.5	19.5
77.5°	132.8	132.8	128.9	117.1	97.6	78.1	62.5	43.0	23.4	7.8	7.8
80°	101.6	109.4	113.3	101.6	89.8	70.3	50.7	31.2	15.7	3.9	3.9
82.5°	97.6	113.3	121.1	105.5	89.8	66.4	50.7	31.2	15.7	3.9	3.9
85°	23.4	23.4	35.2	39.1	50.7	54.7	43.0	27.3	11.7	3.9	3.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	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)