

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: P652029

Luminaire Tested: **GALN-SA7A-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16291.8 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

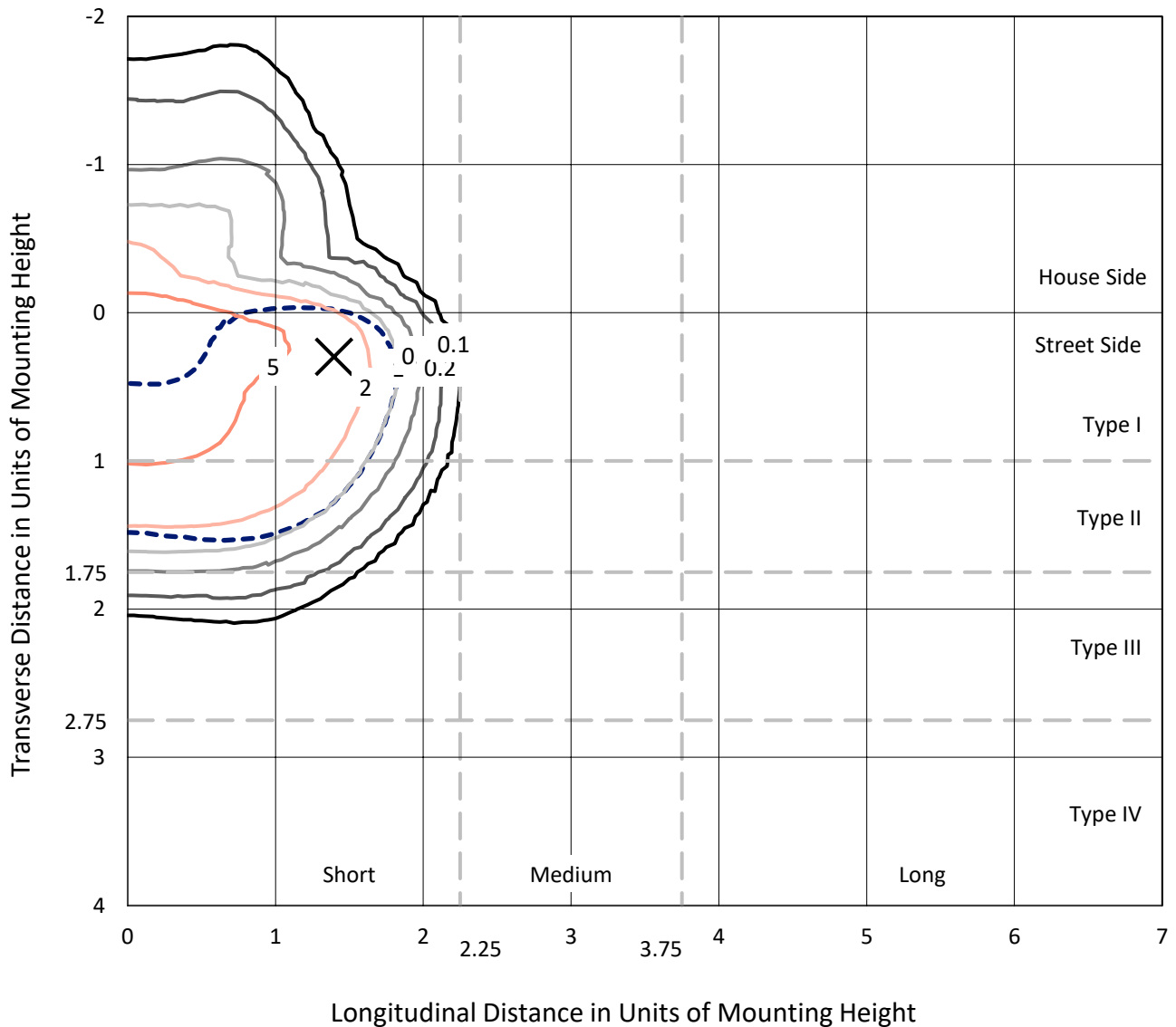
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

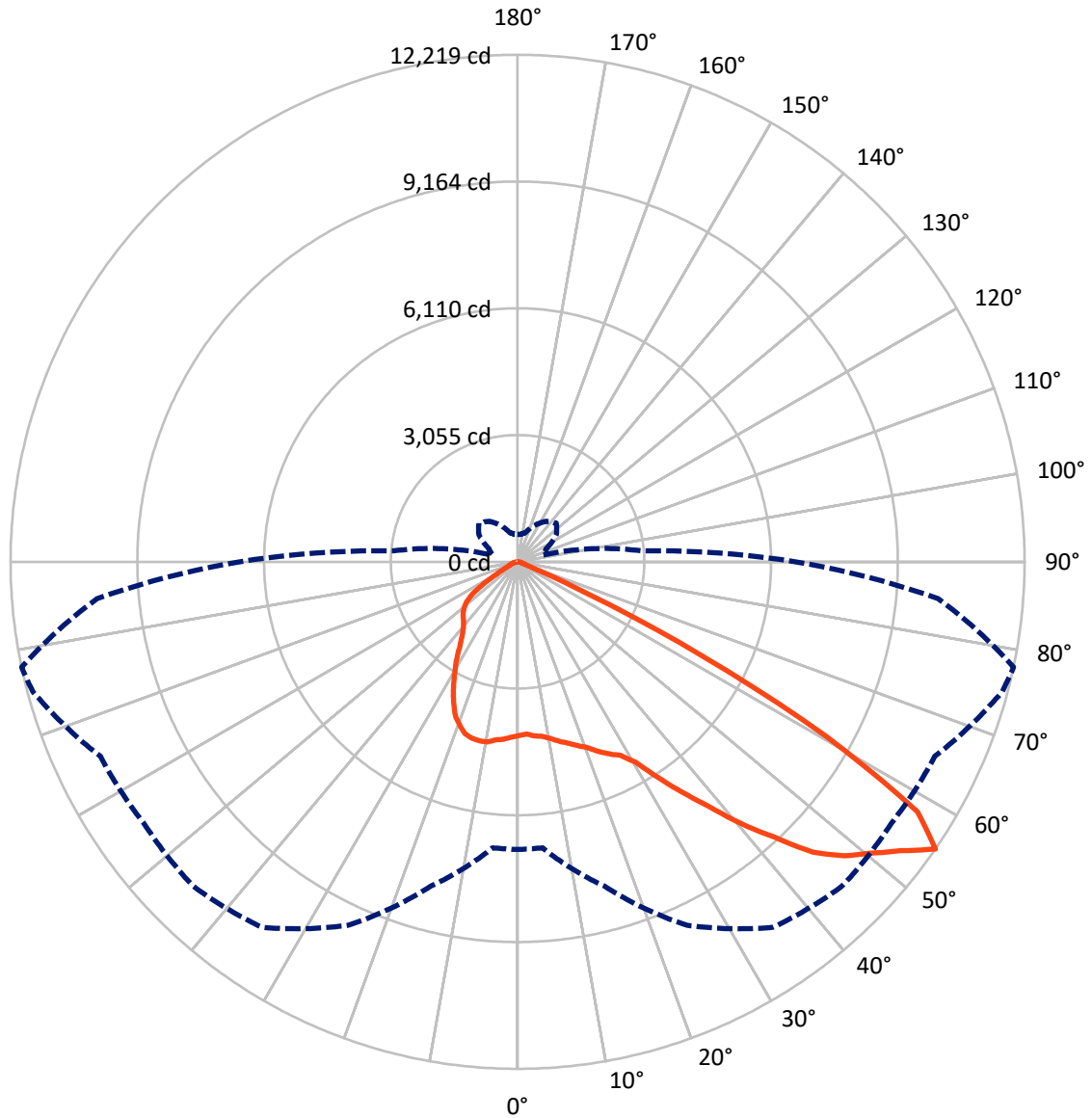
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3026.0	0.0	3026.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13265.8	0.0	13265.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	16291.8	0.0	16291.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.5	2.3
10°-20°	988.5	6.1
20°-30°	1732.6	10.6
30°-40°	2856.8	17.5
40°-50°	4157.0	25.5
50°-60°	4710.4	28.9
60°-70°	1346.8	8.3
70°-80°	104.6	0.6
80°-90°	21.7	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°	16291.8	100.0
0°-180°	16291.8	100.0

Coefficient of Utilization

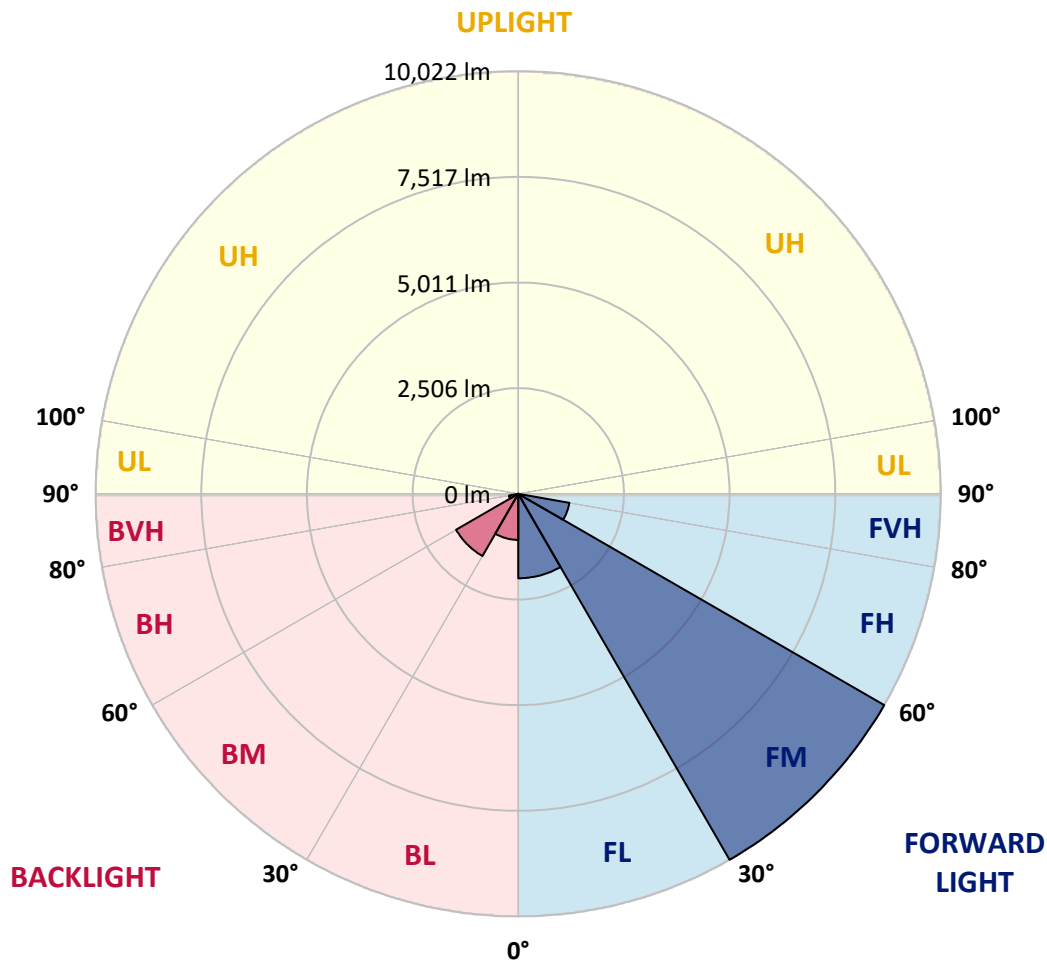


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.7	12.3			
FM (30°-60°)	10022.0	61.5			
FH (60°-80°)	1230.5	7.6			G1/1800
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	1091.8	6.7	B3/2500		
BM (30°-60°)	1702.2	10.4	B2/2500		
BH (60°-80°)	220.9	1.4	B1/500		G1/500
BVH (80°-90°)	11.2	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°	78°	85°
0°	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7
2.5°	3938.2	3976.0	3981.8	4028.5	4025.5	4104.2	4127.5	4130.4	4182.8	4156.6	4223.6
5°	3827.5	3807.0	3798.3	3879.9	3903.2	3973.1	4031.3	4066.3	4174.1	4212.0	4281.9
7.5°	3728.4	3728.4	3734.2	3807.0	3798.3	3888.6	3949.8	4057.6	4214.8	4246.9	4331.4
10°	3632.3	3597.4	3641.0	3716.8	3780.9	3821.6	3949.8	4051.8	4235.3	4328.5	4444.9
12.5°	3582.7	3600.2	3606.0	3661.5	3731.3	3853.6	3923.6	4092.6	4380.9	4436.3	4561.5
15°	3894.4	3859.5	3775.0	3725.5	3783.7	3842.0	4016.8	4188.7	4456.6	4535.3	4675.1
17.5°	4255.6	4226.5	4156.6	4022.6	3891.6	3999.3	4136.2	4293.5	4538.2	4654.7	4861.5
20°	4727.5	4680.9	4611.0	4348.8	4235.3	4118.7	4264.4	4450.8	4672.2	4777.0	4989.7
22.5°	5289.7	5289.7	5132.4	4814.9	4579.0	4468.3	4529.5	4637.2	4820.7	4963.5	5173.2
25°	5875.1	5857.7	5714.9	5385.8	4986.8	4855.7	4925.6	5001.3	5050.9	5129.5	5269.3
27.5°	6545.1	6443.2	6262.6	5898.4	5546.1	5292.6	5368.4	5301.3	5240.2	5281.0	5482.0
30°	6999.6	7063.6	6833.5	6483.9	6151.9	5869.3	5883.9	5825.7	5546.1	5604.3	5723.7
32.5°	7471.4	7512.1	7384.0	7191.7	6859.7	6530.5	6411.1	6361.6	6151.9	6178.1	6061.6
35°	7864.6	7943.2	7829.7	7745.2	7649.1	7384.0	7054.9	7215.1	6877.2	6813.1	6510.2
37.5°	8225.8	8202.5	8336.5	8249.1	8228.8	8042.3	7681.1	7713.1	7486.0	7471.4	7121.8
40°	8549.2	8555.0	8738.5	8779.3	8697.7	8365.7	7841.3	8094.7	8278.2	8295.7	7847.1
42.5°	8817.1	8895.8	9053.0	9382.2	9259.9	8706.5	8007.3	8284.1	8965.6	9073.5	8534.6
45°	9050.2	9210.4	9405.5	9699.7	9629.8	9189.9	8421.0	8674.4	9699.7	9982.2	9181.2
47.5°	9064.7	9274.5	9487.1	9924.0	10011.3	9449.2	8849.2	9292.0	10282.3	10588.1	9653.1
50°	9006.4	9117.1	9542.4	10017.2	10215.3	9871.6	9449.2	9810.4	10847.4	11039.6	9891.9
52.5°	8316.1	8400.6	9254.0	10104.6	10582.3	10349.3	10244.4	10532.8	11424.1	11566.9	10116.2
55°	6932.5	6918.0	8091.8	9664.8	10751.3	11057.1	10993.0	11095.0	12091.1	12219.3	10171.6
57.5°	4742.1	5007.1	6020.8	8048.1	9717.2	10891.0	10958.1	10789.1	11313.4	11362.9	8866.7
60°	2557.5	2668.2	3483.8	5371.2	7398.6	8875.4	9050.2	8744.3	8703.5	8563.7	6329.5
62.5°	1016.6	1071.9	1535.1	2659.4	4031.3	5394.6	5770.3	5645.0	5377.1	5010.1	3277.0
65°	483.5	518.5	763.1	1243.8	1788.5	2248.7	2624.4	2741.0	2021.5	1820.5	1080.7
67.5°	329.2	355.4	556.3	710.7	637.9	667.0	868.0	806.9	474.8	404.9	300.0
70°	250.5	267.9	445.6	483.5	285.4	201.0	224.3	209.7	195.2	198.1	195.2
72.5°	177.7	192.3	326.2	285.4	125.2	93.2	119.4	142.7	142.7	142.7	139.8
75°	107.8	122.4	189.3	110.7	49.5	49.5	75.8	96.1	101.9	104.9	99.1
77.5°	55.3	69.9	64.1	32.0	32.0	37.8	55.3	67.0	72.8	72.8	69.9
80°	11.7	11.7	11.7	17.5	32.0	40.8	55.3	61.1	69.9	69.9	64.1
82.5°	0.0	2.9	8.7	17.5	29.1	37.8	52.4	61.1	69.9	72.8	67.0
85°	0.0	2.9	5.8	11.7	20.4	23.3	20.4	17.5	17.5	17.5	17.5
87.5°	0.0	0.0	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7
2.5°	4229.4	4238.1	4223.6	4220.7	4209.0	4244.0	4159.5	4139.1	4191.5	4142.0	4153.7
5°	4284.7	4305.2	4278.9	4235.3	4171.2	4072.1	3987.7	3877.0	3824.5	3786.7	3780.9
7.5°	4325.5	4340.1	4313.9	4174.1	3981.8	3731.3	3544.9	3408.0	3300.3	3268.2	3215.7
10°	4491.6	4494.5	4363.4	4054.6	3678.9	3349.8	3064.3	2854.6	2746.8	2679.8	2650.7
12.5°	4602.3	4596.4	4331.4	3818.7	3317.7	2880.8	2554.5	2301.1	2202.1	2170.0	2149.7
15°	4742.1	4710.0	4255.6	3576.9	2851.7	2379.8	2085.6	1910.8	1902.1	1881.7	1902.1
17.5°	4852.7	4762.5	4145.0	3137.1	2406.0	1960.4	1768.1	1779.7	1803.0	1823.5	1826.3
20°	5033.4	4846.9	3891.6	2752.6	1992.4	1680.7	1677.8	1730.2	1788.5	1811.8	1835.1
22.5°	5170.3	4881.9	3620.7	2341.9	1654.5	1567.1	1616.7	1695.3	1738.9	1762.2	1797.2
25°	5219.8	4785.8	3259.5	1931.2	1491.3	1514.6	1590.4	1642.8	1698.1	1724.4	1709.8
27.5°	5269.3	4736.3	2828.4	1590.4	1404.0	1479.7	1543.8	1596.2	1613.7	1648.7	1672.0
30°	5388.7	4564.4	2440.9	1374.9	1360.3	1456.4	1503.0	1520.5	1567.1	1587.5	1587.5
32.5°	5484.8	4497.4	2030.3	1272.9	1354.4	1468.0	1473.9	1473.9	1479.7	1465.2	1459.3
35°	5682.9	4267.3	1663.2	1211.7	1351.6	1471.0	1485.5	1436.0	1302.0	1249.6	1235.0
37.5°	5927.6	4118.7	1392.4	1197.2	1371.9	1505.9	1529.3	1342.8	1168.1	1083.5	1069.0
40°	6224.7	4013.8	1214.7	1191.4	1418.5	1587.5	1517.6	1270.0	1042.8	920.5	914.6
42.5°	6571.3	3917.7	1095.2	1188.4	1476.8	1672.0	1505.9	1208.9	914.6	833.1	844.7
45°	6848.1	3865.3	1013.7	1168.1	1497.2	1721.4	1514.6	1101.0	862.2	809.8	815.6
47.5°	7063.6	3754.6	946.6	1133.1	1494.3	1738.9	1436.0	1057.4	836.0	850.6	865.1
50°	7069.4	3606.0	862.2	1057.4	1450.6	1706.9	1345.7	1016.6	830.2	891.3	920.5
52.5°	6990.8	3396.4	771.9	949.6	1348.6	1596.2	1264.2	999.1	803.9	798.1	833.1
55°	6711.2	3003.1	620.4	769.0	1138.9	1316.6	1191.4	967.1	725.3	658.3	664.1
57.5°	5423.7	2152.5	457.3	550.5	806.9	964.1	1074.8	952.5	652.4	559.3	562.2
60°	3358.4	1220.5	335.0	375.8	498.1	585.5	870.9	885.5	582.6	471.9	466.1
62.5°	1724.4	603.0	259.3	265.1	305.9	343.7	597.1	742.8	527.2	448.6	448.6
65°	576.8	297.1	227.2	203.9	203.9	212.6	361.2	515.5	445.6	375.8	375.8
67.5°	247.6	221.4	198.1	177.7	163.2	154.4	203.9	300.0	332.0	285.4	273.8
70°	192.3	186.4	171.8	148.5	128.2	116.5	119.4	154.4	189.3	183.5	177.7
72.5°	142.7	142.7	136.9	116.5	99.1	84.4	78.6	81.6	90.3	93.2	96.1
75°	99.1	101.9	101.9	90.3	72.8	61.1	52.4	43.7	35.0	29.1	26.2
77.5°	67.0	69.9	75.8	67.0	55.3	40.8	32.0	23.3	14.5	5.8	5.8
80°	58.3	67.0	72.8	67.0	58.3	43.7	32.0	17.5	8.7	0.0	0.0
82.5°	61.1	67.0	75.8	64.1	55.3	40.8	32.0	20.4	8.7	2.9	0.0
85°	14.5	14.5	17.5	20.4	26.2	29.1	23.3	14.5	8.7	2.9	0.0
87.5°	5.8	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	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)