

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: P652524

Luminaire Tested: **GALN-SA7B-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652524
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-SA7B-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA 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: 20271.4 lumens
Efficiency: N/A
Efficacy: 70.9 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

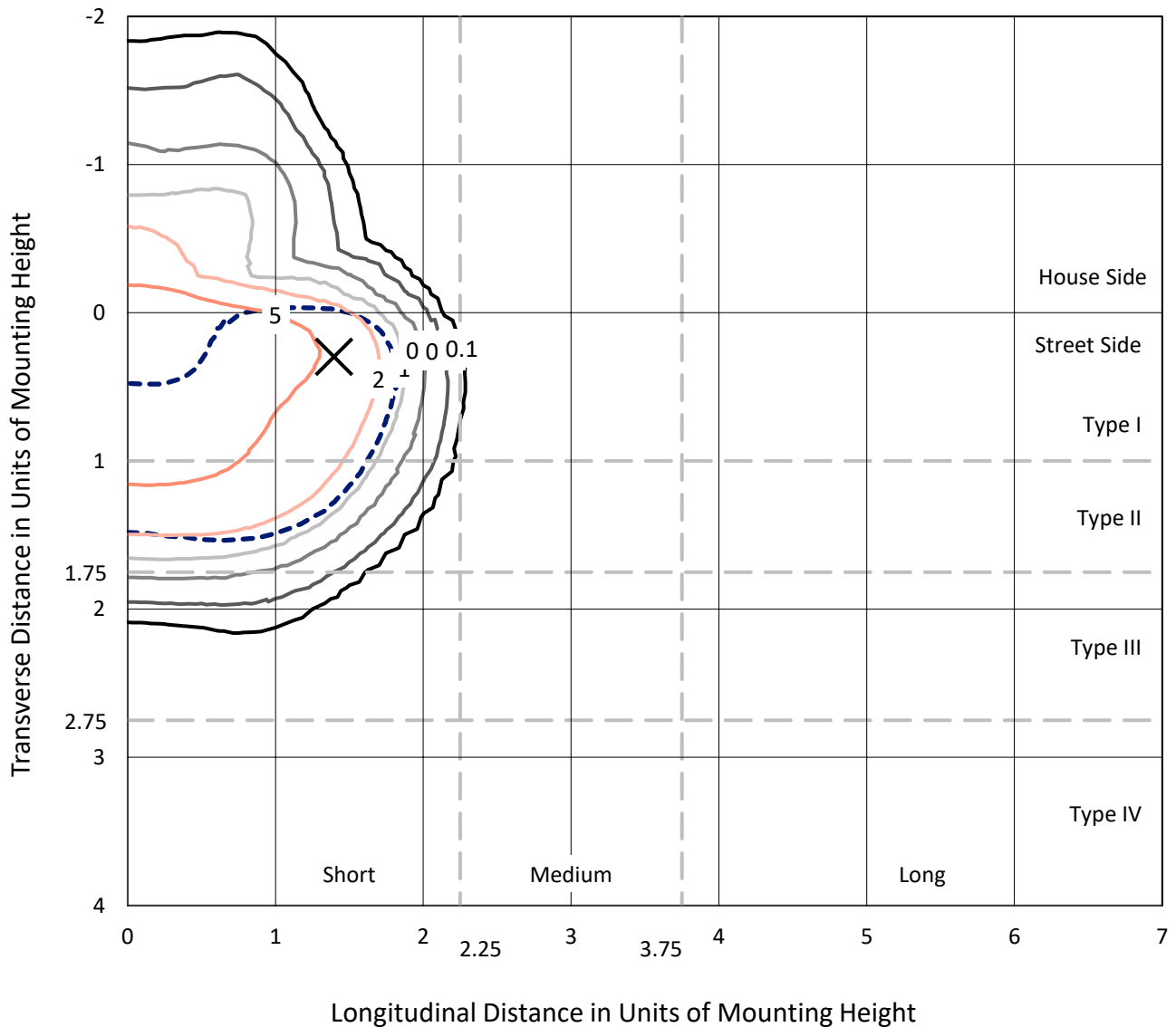
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

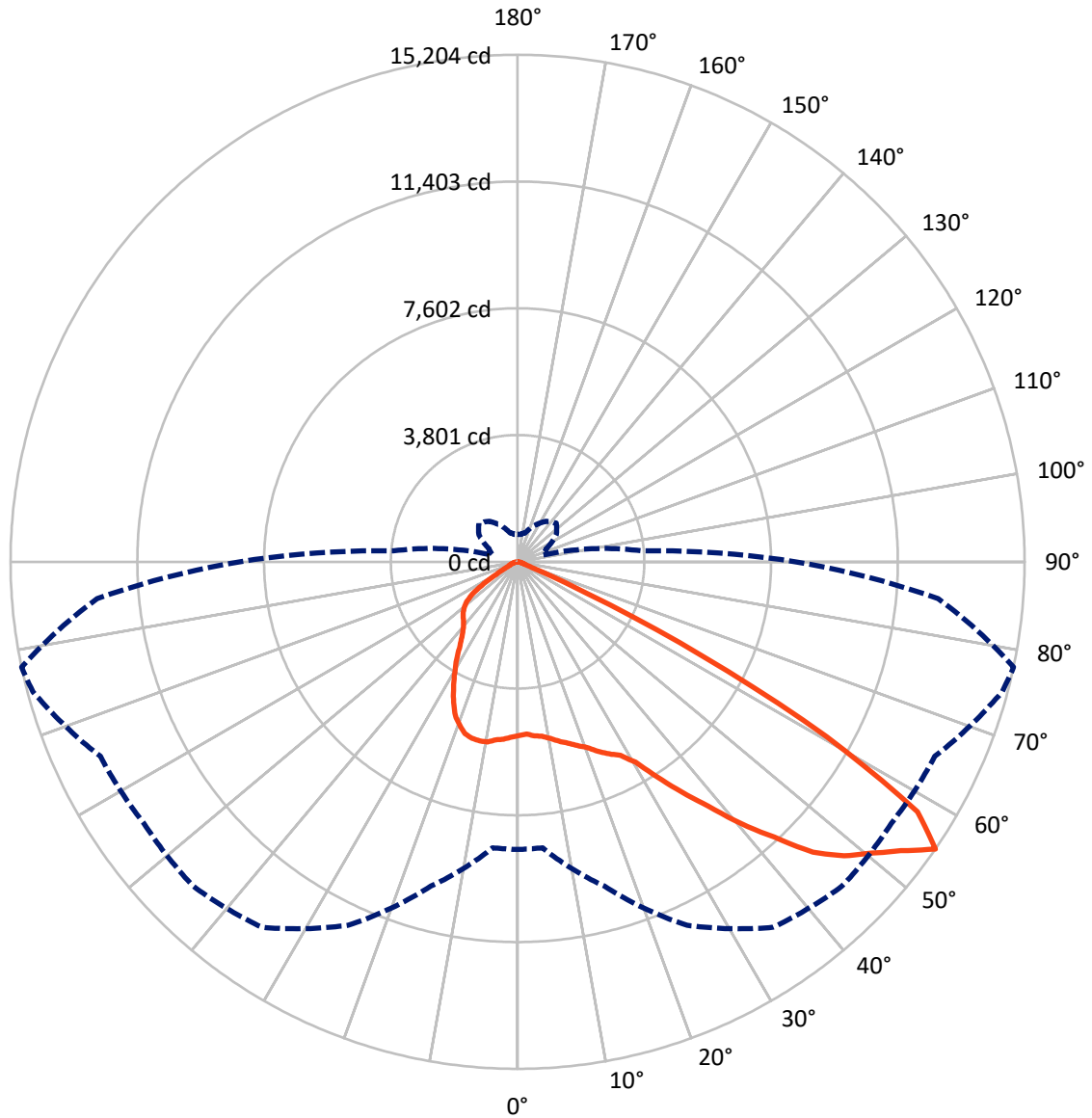
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	3765.2	0.0	3765.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16506.2	0.0	16506.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	20271.4	0.0	20271.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.7	2.3
10°-20°	1229.9	6.1
20°-30°	2155.8	10.6
30°-40°	3554.7	17.5
40°-50°	5172.5	25.5
50°-60°	5860.9	28.9
60°-70°	1675.8	8.3
70°-80°	130.1	0.6
80°-90°	27.1	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°	20271.4	100.0
0°-180°	20271.4	100.0

Coefficient of Utilization



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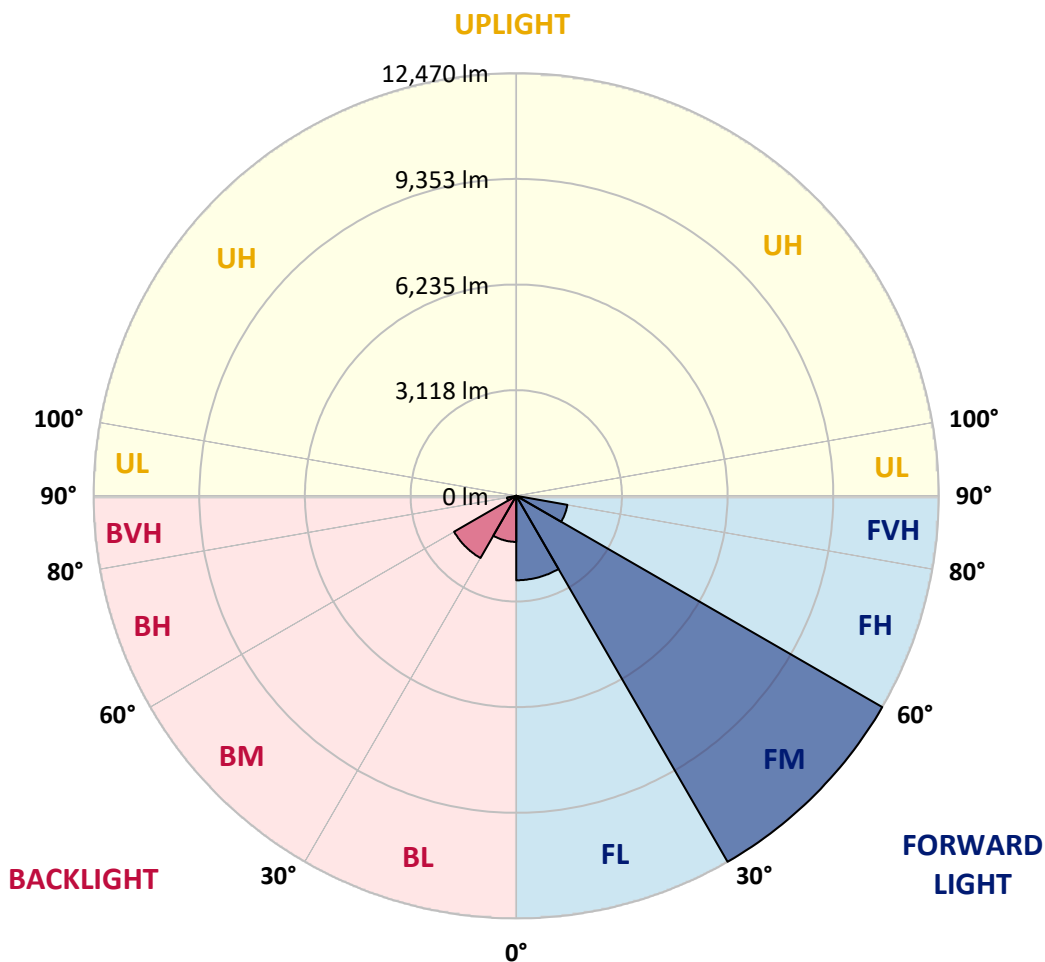
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.9	12.3			
FM (30°-60°)	12470.1	61.5			
FH (60°-80°)	1531.0	7.6			G1/1800
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	1358.5	6.7	B3/2500		
BM (30°-60°)	2118.0	10.4	B2/2500		
BH (60°-80°)	274.8	1.4	B1/500		G1/500
BVH (80°-90°)	13.9	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°	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8
2.5°	4900.1	4947.3	4954.5	5012.4	5008.8	5106.7	5135.7	5139.4	5204.5	5171.9	5255.3
5°	4762.4	4737.0	4726.2	4827.6	4856.6	4943.6	5016.1	5059.6	5193.7	5240.8	5327.8
7.5°	4639.1	4639.1	4646.4	4737.0	4726.2	4838.5	4914.6	5048.7	5244.4	5284.3	5389.4
10°	4519.5	4476.1	4530.5	4624.7	4704.4	4755.1	4914.6	5041.5	5269.8	5385.8	5530.8
12.5°	4458.0	4479.7	4486.9	4555.8	4642.8	4795.0	4882.0	5092.2	5451.0	5519.9	5675.7
15°	4845.8	4802.3	4697.2	4635.5	4708.0	4780.5	4998.0	5211.8	5545.2	5643.1	5817.0
17.5°	5295.2	5258.9	5171.9	5005.2	4842.1	4976.2	5146.6	5342.3	5646.7	5791.7	6049.1
20°	5882.3	5824.3	5737.3	5411.2	5269.8	5124.8	5306.0	5538.0	5813.4	5943.9	6208.5
22.5°	6581.8	6581.8	6386.1	5991.0	5697.4	5559.8	5635.9	5769.9	5998.3	6175.9	6436.8
25°	7310.3	7288.5	7111.0	6701.4	6204.9	6041.7	6128.8	6223.0	6284.6	6382.4	6556.4
27.5°	8143.9	8017.1	7792.4	7339.3	6900.7	6585.5	6679.6	6596.3	6520.2	6570.9	6821.0
30°	8709.3	8789.0	8502.7	8067.8	7654.6	7303.1	7321.2	7248.7	6900.7	6973.2	7121.8
32.5°	9296.4	9347.2	9187.7	8948.5	8535.3	8125.7	7977.1	7915.6	7654.6	7687.2	7542.3
35°	9785.7	9883.6	9742.2	9637.1	9517.5	9187.7	8778.2	8977.5	8557.1	8477.4	8100.4
37.5°	10235.1	10206.1	10372.9	10264.2	10238.8	10006.8	9557.4	9597.2	9314.6	9296.4	8861.5
40°	10637.5	10644.7	10873.0	10923.7	10822.3	10409.1	9756.7	10072.1	10300.4	10322.1	9764.0
42.5°	10970.8	11068.7	11264.4	11674.0	11521.8	10833.2	9963.3	10307.6	11155.7	11289.8	10619.3
45°	11260.8	11460.1	11703.0	12069.0	11982.1	11434.8	10477.9	10793.3	12069.0	12420.6	11423.9
47.5°	11279.0	11539.9	11804.4	12348.2	12456.9	11757.3	11010.8	11561.6	12794.0	13174.5	12011.1
50°	11206.5	11344.2	11873.3	12464.1	12710.5	12282.9	11757.3	12206.8	13497.0	13736.2	12308.3
52.5°	10347.5	10452.6	11514.6	12572.9	13167.2	12877.3	12746.8	13105.6	14214.7	14392.3	12587.3
55°	8626.0	8607.8	10068.5	12025.5	13377.5	13758.0	13678.3	13805.1	15044.6	15204.1	12656.2
57.5°	5900.5	6230.2	7491.5	10014.0	12090.8	13551.5	13634.8	13424.5	14076.9	14138.6	11032.5
60°	3182.2	3319.9	4334.7	6683.3	9205.8	11043.3	11260.8	10880.3	10829.6	10655.6	7875.7
62.5°	1264.9	1333.7	1910.0	3309.0	5016.1	6712.3	7179.8	7023.9	6690.6	6233.8	4077.4
65°	601.7	645.1	949.6	1547.6	2225.4	2798.0	3265.5	3410.5	2515.3	2265.2	1344.6
67.5°	409.6	442.2	692.2	884.3	793.7	830.0	1080.0	1003.9	590.8	503.8	373.3
70°	311.7	333.5	554.6	601.7	355.2	250.1	279.0	261.0	242.8	246.5	242.8
72.5°	221.1	239.2	406.0	355.2	155.8	116.0	148.6	177.6	177.6	177.6	174.0
75°	134.1	152.2	235.6	137.8	61.6	61.6	94.2	119.6	126.8	130.4	123.2
77.5°	68.9	87.0	79.7	39.9	39.9	47.1	68.9	83.3	90.6	90.6	87.0
80°	14.5	14.5	14.5	21.8	39.9	50.7	68.9	76.1	87.0	87.0	79.7
82.5°	0.0	3.6	10.8	21.8	36.2	47.1	65.3	76.1	87.0	90.6	83.3
85°	0.0	3.6	7.2	14.5	25.4	29.0	25.4	21.8	21.8	21.8	21.8
87.5°	0.0	0.0	3.6	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2
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°	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8	5211.8
2.5°	5262.6	5273.4	5255.3	5251.7	5237.2	5280.6	5175.6	5150.2	5215.5	5153.8	5168.3
5°	5331.4	5356.7	5324.1	5269.8	5190.1	5066.9	4961.7	4824.0	4758.8	4711.6	4704.4
7.5°	5382.1	5400.2	5367.7	5193.7	4954.5	4642.8	4410.8	4240.5	4106.4	4066.5	4001.3
10°	5588.7	5592.4	5429.2	5045.1	4577.6	4168.0	3812.8	3551.9	3417.7	3334.4	3298.1
12.5°	5726.5	5719.2	5389.4	4751.5	4128.1	3584.5	3178.6	2863.3	2740.0	2700.1	2674.8
15°	5900.5	5860.6	5295.2	4450.7	3548.3	2961.1	2595.0	2377.6	2366.7	2341.3	2366.7
17.5°	6038.1	5925.8	5157.4	3903.4	2993.7	2439.2	2200.0	2214.4	2243.5	2268.8	2272.5
20°	6262.8	6030.9	4842.1	3425.0	2479.0	2091.2	2087.6	2152.9	2225.4	2254.3	2283.3
22.5°	6433.2	6074.4	4505.1	2914.0	2058.6	1949.9	2011.5	2109.4	2163.7	2192.7	2236.2
25°	6494.8	5954.8	4055.6	2402.9	1855.7	1884.7	1978.9	2044.1	2113.0	2145.6	2127.5
27.5°	6556.4	5893.2	3519.2	1978.9	1746.9	1841.2	1920.9	1986.1	2007.9	2051.4	2080.4
30°	6705.0	5679.4	3037.2	1710.7	1692.6	1812.2	1870.1	1891.9	1949.9	1975.3	1975.3
32.5°	6824.6	5596.0	2526.2	1583.9	1685.3	1826.7	1833.9	1833.9	1841.2	1823.0	1815.8
35°	7071.1	5309.7	2069.5	1507.7	1681.7	1830.3	1848.4	1786.8	1620.1	1554.8	1536.8
37.5°	7375.6	5124.8	1732.5	1489.6	1707.1	1873.7	1902.8	1670.8	1453.3	1348.3	1330.1
40°	7745.2	4994.4	1511.4	1482.3	1765.1	1975.3	1888.3	1580.2	1297.5	1145.3	1138.0
42.5°	8176.5	4874.8	1362.8	1478.7	1837.5	2080.4	1873.7	1504.1	1138.0	1036.5	1051.1
45°	8520.8	4809.5	1261.2	1453.3	1862.9	2142.0	1884.7	1370.0	1072.8	1007.6	1014.8
47.5°	8789.0	4671.8	1177.9	1409.9	1859.3	2163.7	1786.8	1315.7	1040.1	1058.3	1076.4
50°	8796.3	4486.9	1072.8	1315.7	1805.0	2123.9	1674.4	1264.9	1032.9	1109.0	1145.3
52.5°	8698.5	4226.0	960.4	1181.5	1678.0	1986.1	1573.0	1243.2	1000.3	993.1	1036.5
55°	8350.5	3736.7	772.0	956.8	1417.1	1638.2	1482.3	1203.3	902.5	819.1	826.4
57.5°	6748.5	2678.4	569.0	685.0	1003.9	1199.7	1337.4	1185.1	811.8	695.8	699.5
60°	4178.8	1518.6	416.8	467.5	619.7	728.5	1083.7	1101.8	724.9	587.1	579.9
62.5°	2145.6	750.3	322.6	329.8	380.6	427.6	743.0	924.2	656.0	558.2	558.2
65°	717.6	369.7	282.7	253.7	253.7	264.6	449.4	641.5	554.6	467.5	467.5
67.5°	308.1	275.4	246.5	221.1	202.9	192.1	253.7	373.3	413.2	355.2	340.7
70°	239.2	231.9	213.9	184.9	159.5	145.0	148.6	192.1	235.6	228.3	221.1
72.5°	177.6	177.6	170.3	145.0	123.2	105.1	97.9	101.5	112.4	116.0	119.6
75°	123.2	126.8	126.8	112.4	90.6	76.1	65.3	54.3	43.5	36.2	32.6
77.5°	83.3	87.0	94.2	83.3	68.9	50.7	39.9	29.0	18.1	7.2	7.2
80°	72.5	83.3	90.6	83.3	72.5	54.3	39.9	21.8	10.8	0.0	0.0
82.5°	76.1	83.3	94.2	79.7	68.9	50.7	39.9	25.4	10.8	3.6	0.0
85°	18.1	18.1	21.8	25.4	32.6	36.2	29.0	18.1	10.8	3.6	0.0
87.5°	7.2	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	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)