

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: P651992

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651992
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-SA7A-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 19983 lumens
Efficiency: N/A
Efficacy: 92.9 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

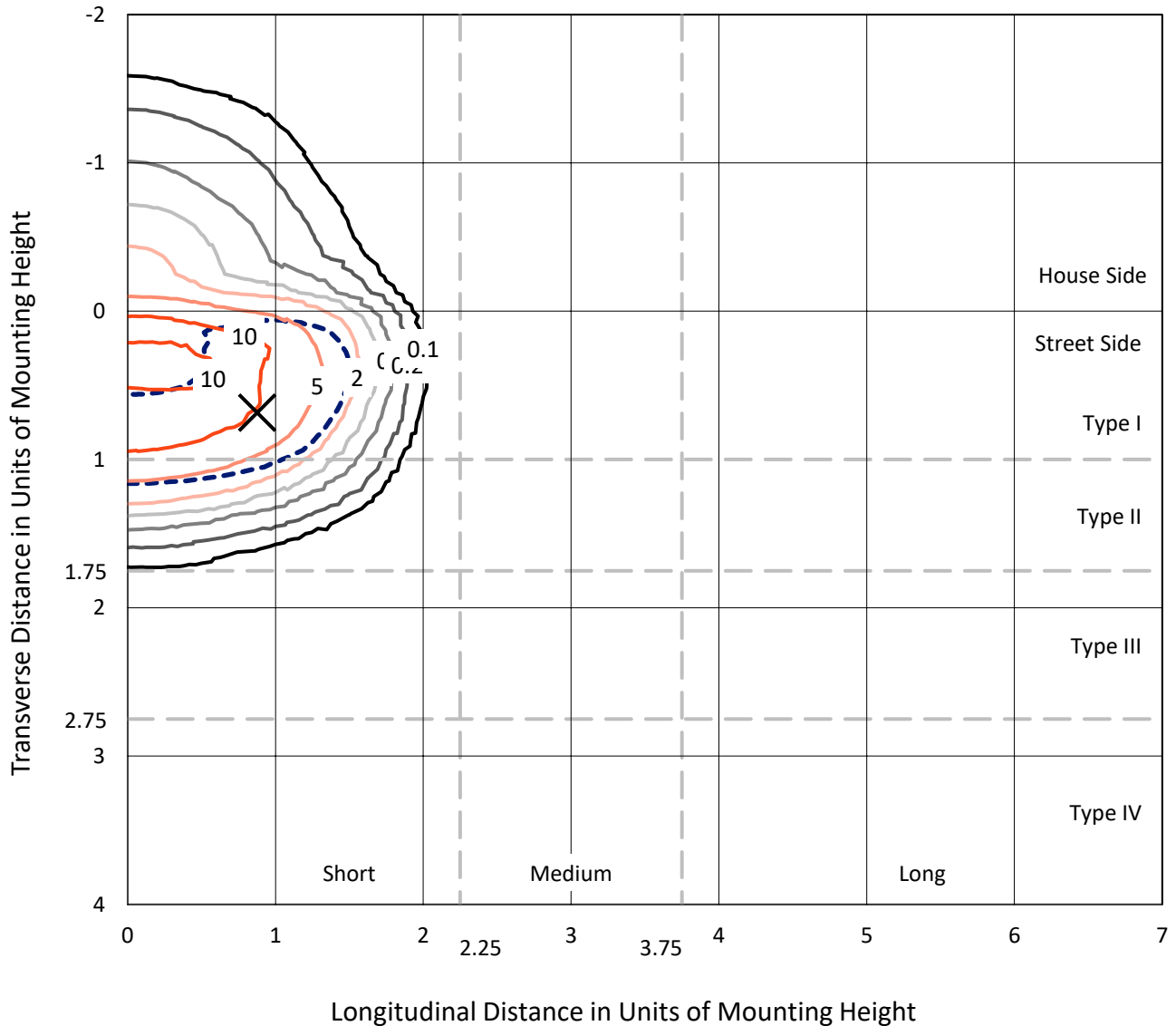
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

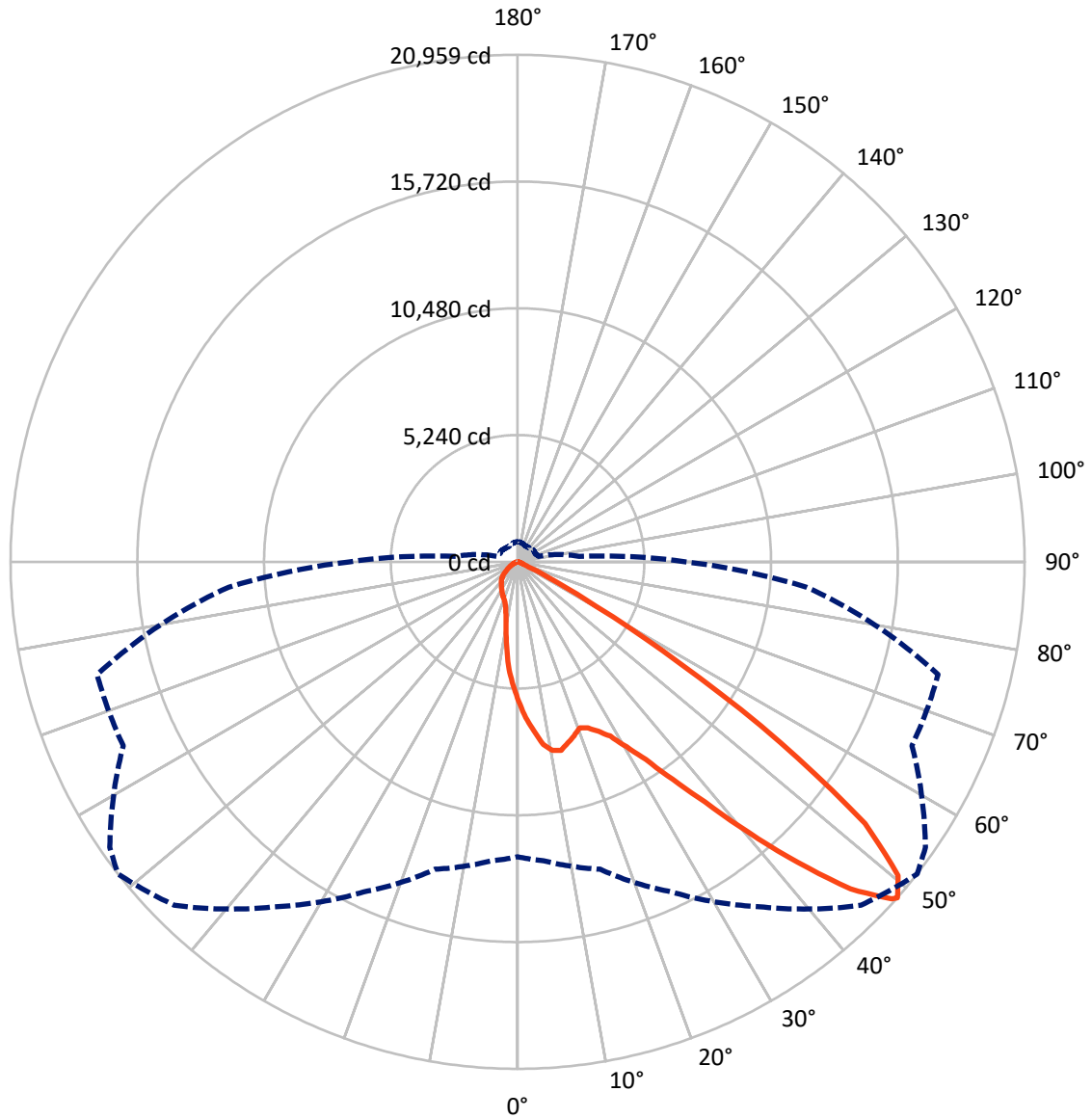
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	2433.1	0.0	2433.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	17549.9	0.0	17549.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	19983.0	0.0	19983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.2	2.6
10°-20°	1380.3	6.9
20°-30°	2356.8	11.8
30°-40°	4340.1	21.7
40°-50°	6740.1	33.7
50°-60°	4056.4	20.3
60°-70°	469.2	2.3
70°-80°	90.8	0.5
80°-90°	21.0	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°	19983.0	100.0
0°-180°	19983.0	100.0

Coefficient of Utilization



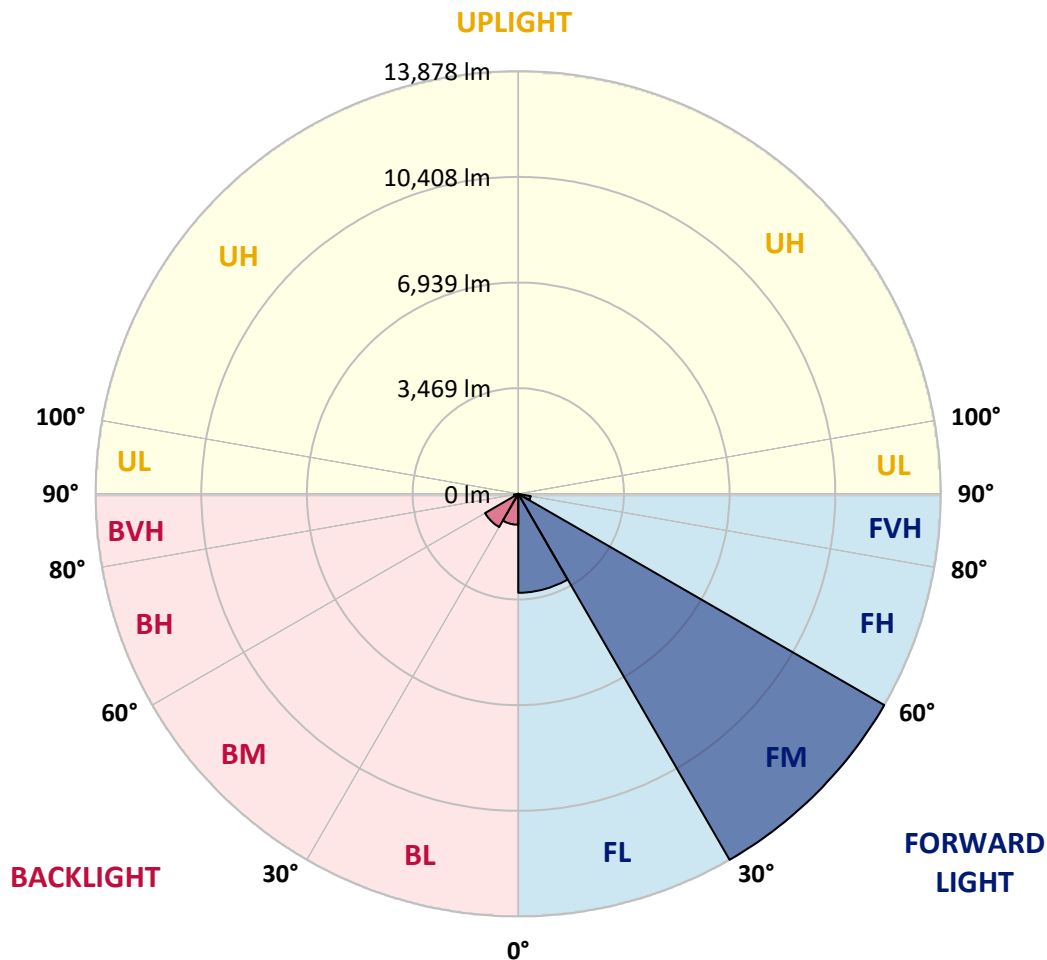
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3249.0	16.3			
FM (30°-60°)	13877.8	69.4			
FH (60°-80°)	413.1	2.1			G0/660
FVH (80°-90°)	10.0	0.0			G0/10
BL (0°-30°)	1016.4	5.1	B3/2500		
BM (30°-60°)	1258.9	6.3	B2/2500		
BH (60°-80°)	146.8	0.7	B1/500		G1/500
BVH (80°-90°)	11.0	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°	52°	55°	65°	75°	85°
0°	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8
2.5°	6994.3	6834.1	6848.6	6743.7	6682.6	6583.5	6449.5	6423.3	6277.6	6079.5	5878.5
5°	7623.5	7585.6	7635.1	7483.6	7489.4	7326.3	7011.8	7017.6	6682.6	6359.2	6047.5
7.5°	7664.3	7576.8	7626.4	7760.4	7839.0	7809.9	7632.2	7477.8	7160.3	6685.4	6231.1
10°	6863.1	7029.2	7081.6	7303.0	7617.6	7949.7	7929.4	7938.0	7672.9	7052.5	6388.3
12.5°	6382.5	6271.8	6449.5	6583.5	7058.3	7702.1	7996.3	8060.4	8080.8	7407.9	6545.7
15°	6164.0	6164.0	6193.1	6231.1	6574.8	7169.0	7769.1	7955.5	8395.5	7873.9	6793.3
17.5°	6300.9	6295.1	6335.9	6257.2	6385.4	6842.8	7559.4	7772.0	8747.9	8331.4	6988.4
20°	6717.5	6737.9	6711.7	6484.4	6493.2	6836.9	7326.3	7661.3	8986.8	8727.5	7247.7
22.5°	7297.2	7308.9	7160.3	6912.7	6839.9	7008.8	7460.3	7716.7	9179.0	9202.3	7326.3
25°	7967.2	7920.6	7891.4	7541.9	7320.5	7466.1	7763.3	7911.9	9298.4	9610.2	7550.7
27.5°	8896.4	8803.3	8625.5	8313.9	8150.7	7943.9	8156.5	8401.3	9639.3	10181.1	7795.3
30°	10268.5	10186.9	9840.3	9438.3	9010.1	8806.2	8873.1	9007.2	10254.0	10842.4	8118.7
32.5°	12333.9	12162.0	11661.0	10894.8	10312.2	9750.0	9732.5	9875.3	10804.5	11757.1	8503.2
35°	14608.9	14556.5	13819.6	13030.1	11902.8	11034.7	11049.2	11124.9	11859.0	12957.3	9007.2
37.5°	16120.9	16409.3	15940.2	15092.5	14145.8	12904.8	12590.2	12616.4	13306.8	14378.8	9916.1
40°	17288.9	17044.3	17099.6	16901.6	16254.8	15410.1	14713.8	14576.9	14981.8	15951.9	10819.0
42.5°	16779.2	16790.8	17131.7	17600.7	17760.9	17699.7	16989.0	16729.7	16415.1	17239.5	11678.5
45°	15340.2	15640.2	16082.9	17323.9	18413.4	19435.9	19296.1	18865.0	17405.5	18259.0	12173.6
47.5°	13044.7	13033.0	13758.3	15372.2	17793.0	20187.4	20822.5	20519.6	18107.6	18145.4	12071.7
48°	12196.9	12406.7	13155.3	15054.7	17399.7	20076.8	20959.4	20577.8	17988.1	17994.0	11984.3
50°	9015.9	8978.0	9910.2	12240.7	15541.2	18865.0	20382.6	20679.8	17985.2	17227.8	11372.6
52.5°	4762.8	4926.0	5604.7	7696.3	10988.0	15439.2	17979.4	18442.5	17350.2	15975.2	10492.8
55°	2024.5	1829.4	2350.8	3475.3	6181.5	10315.1	13190.3	14221.6	14670.2	14137.0	9179.0
57.5°	722.4	789.4	908.9	1307.9	2598.4	5645.5	7865.3	8666.3	10163.7	10373.4	6254.3
60°	463.1	471.9	509.8	600.1	975.9	2176.1	3731.6	4369.6	5048.4	5211.4	2918.9
62.5°	358.3	361.2	378.7	393.3	463.1	844.8	1401.2	1660.5	1724.6	1482.8	766.2
65°	300.1	302.9	308.8	308.8	329.2	396.2	489.4	538.9	524.4	518.6	434.0
67.5°	230.1	236.0	247.6	247.6	259.3	241.8	270.9	288.4	326.2	396.2	370.0
70°	180.6	183.5	192.3	198.1	198.1	174.8	195.2	212.7	238.8	294.2	291.3
72.5°	139.9	145.7	151.5	151.5	142.7	119.4	139.9	154.4	171.9	203.9	198.1
75°	107.8	107.8	110.7	90.3	69.9	61.1	84.5	101.9	128.2	134.0	110.7
77.5°	29.1	32.0	29.1	26.2	29.1	43.7	55.3	64.1	81.6	81.6	72.8
80°	0.0	2.9	8.7	17.5	29.1	40.8	49.5	55.3	64.1	69.9	67.0
82.5°	0.0	2.9	8.7	17.5	26.2	32.0	43.7	46.6	52.4	61.1	61.1
85°	0.0	2.9	5.8	11.7	17.5	20.4	20.4	17.5	17.5	14.5	11.7
87.5°	0.0	0.0	2.9	5.8	5.8	8.7	8.7	8.7	8.7	8.7	8.7
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°	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8	5770.8
2.5°	5799.9	5709.5	5572.6	5357.1	5150.3	5016.3	4888.1	4745.3	4666.7	4660.9	4617.2
5°	5869.8	5665.9	5339.6	4969.6	4573.5	4232.7	3889.0	3664.7	3463.7	3352.9	3332.5
7.5°	5907.7	5642.6	5115.3	4494.8	3819.0	3262.7	2878.1	2595.5	2484.8	2403.2	2400.4
10°	5986.3	5601.8	4780.3	3865.7	3029.5	2467.3	2202.2	2074.1	2012.9	1989.6	1954.7
12.5°	6044.6	5526.0	4436.6	3218.9	2394.5	2045.0	1928.4	1899.3	1902.3	1913.9	1899.3
15°	6126.2	5459.1	3973.4	2642.2	2010.0	1841.0	1841.0	1846.8	1887.6	1893.5	1890.6
17.5°	6120.3	5328.0	3495.7	2176.1	1776.9	1753.7	1762.4	1817.7	1844.0	1852.7	1832.3
20°	6190.3	5205.6	3003.4	1858.5	1645.8	1680.8	1739.1	1753.7	1785.7	1791.5	1768.2
22.5°	6169.8	4899.8	2546.0	1608.0	1546.9	1613.8	1672.1	1689.6	1680.8	1663.3	1660.5
25°	6132.0	4637.6	2126.6	1442.0	1474.0	1546.9	1602.2	1570.1	1552.7	1555.6	1558.5
27.5°	6065.0	4305.5	1779.9	1325.4	1375.0	1482.8	1479.8	1468.2	1485.6	1471.1	1485.6
30°	6053.3	3973.4	1494.4	1220.5	1302.1	1380.8	1386.6	1407.0	1427.4	1401.2	1427.4
32.5°	6070.8	3609.2	1290.5	1156.5	1258.5	1261.3	1325.4	1345.9	1331.3	1273.0	1278.8
35°	6204.8	3329.6	1141.9	1121.6	1188.5	1191.4	1252.6	1226.4	1162.3	1127.4	1147.7
37.5°	6487.4	3096.6	1072.0	1089.5	1095.3	1133.2	1136.1	1083.6	1089.5	1086.6	1098.3
40°	6848.6	2918.9	1022.5	1060.3	1054.5	1080.8	975.9	1005.0	1031.2	1040.0	1045.8
42.5°	7096.2	2790.7	990.4	1013.7	1002.1	955.5	897.2	926.4	946.7	978.8	984.6
45°	7206.9	2688.8	952.6	932.2	932.2	847.7	824.4	830.2	876.8	911.8	905.9
47.5°	7026.3	2589.7	885.6	824.4	844.8	774.9	748.7	748.7	798.2	841.8	833.1
48°	6956.3	2548.9	888.5	801.1	815.7	763.2	737.0	731.2	786.5	827.3	827.3
50°	6609.8	2397.4	812.7	737.0	707.9	702.1	684.6	690.4	725.4	763.2	763.2
52.5°	5933.9	2071.2	687.5	632.1	579.7	614.7	623.4	611.7	629.2	664.1	661.3
55°	4952.2	1590.5	550.6	524.4	483.6	521.4	538.9	524.4	506.9	533.1	533.1
57.5°	3172.3	856.5	439.8	445.7	404.9	442.8	457.3	422.4	390.3	410.7	407.8
60°	1430.3	512.7	361.2	352.5	326.2	370.0	393.3	352.5	308.8	323.4	337.9
62.5°	536.0	364.2	273.8	268.0	262.1	302.9	314.6	282.6	238.8	247.6	250.5
65°	393.3	320.4	218.5	198.1	209.7	238.8	233.0	201.0	171.9	171.9	177.7
67.5°	335.0	279.6	177.7	154.4	154.4	157.3	145.7	128.2	119.4	125.2	131.1
70°	262.1	221.4	139.9	119.4	107.8	96.1	84.5	81.6	72.8	81.6	78.6
72.5°	169.0	148.6	107.8	90.3	81.6	67.0	55.3	52.4	43.7	40.8	40.8
75°	90.3	90.3	84.5	72.8	64.1	52.4	43.7	35.0	23.3	17.5	17.5
77.5°	64.1	69.9	75.8	69.9	58.3	43.7	35.0	23.3	11.7	5.8	5.8
80°	61.1	69.9	75.8	67.0	58.3	43.7	32.0	17.5	8.7	2.9	2.9
82.5°	55.3	64.1	69.9	61.1	52.4	37.8	29.1	17.5	8.7	2.9	2.9
85°	11.7	14.5	17.5	17.5	20.4	26.2	20.4	14.5	5.8	2.9	2.9
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	5.8	5.8	2.9	2.9	2.9
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)