

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: P534093

Luminaire Tested: **GALN-SA9C-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38060 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

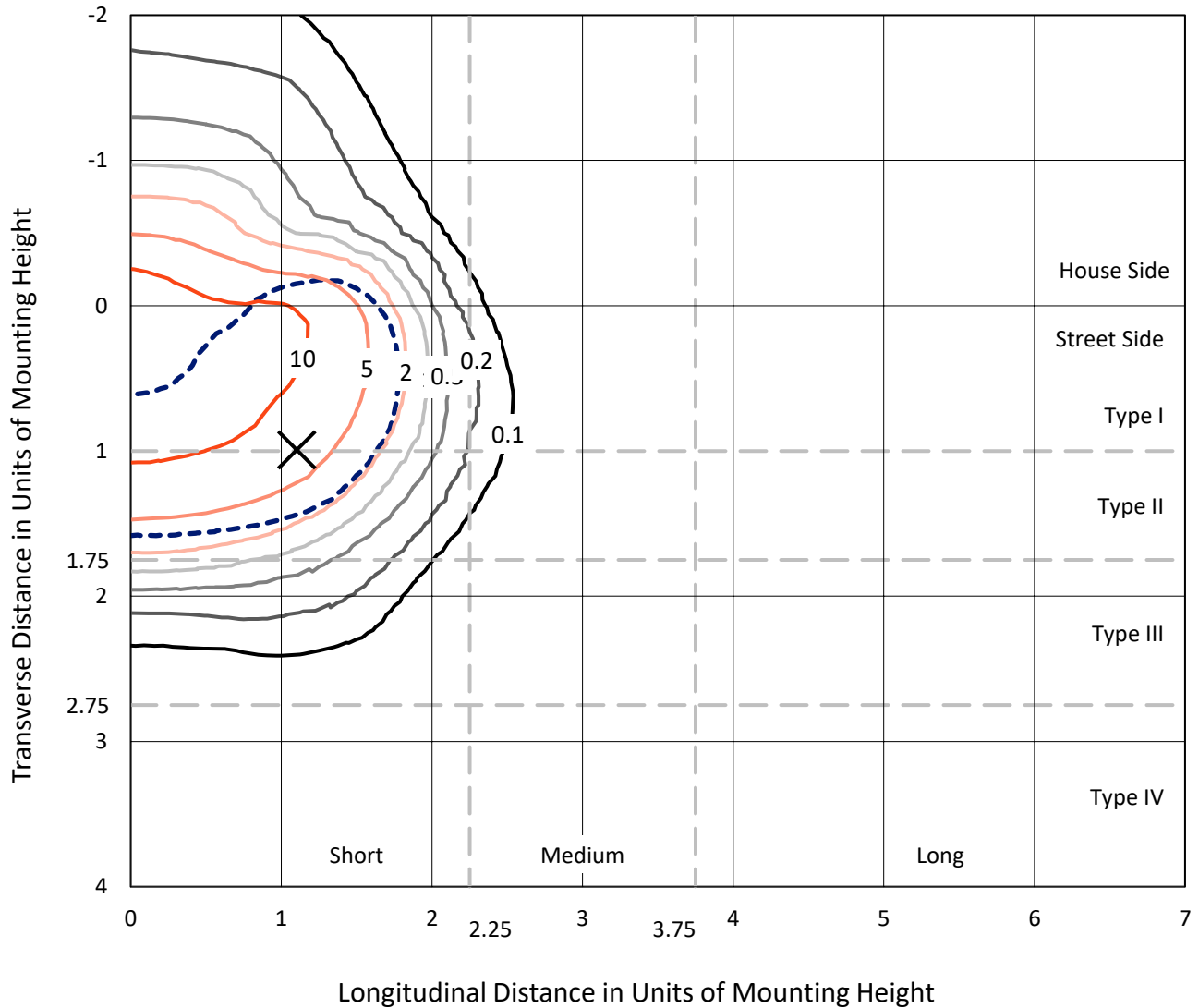
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

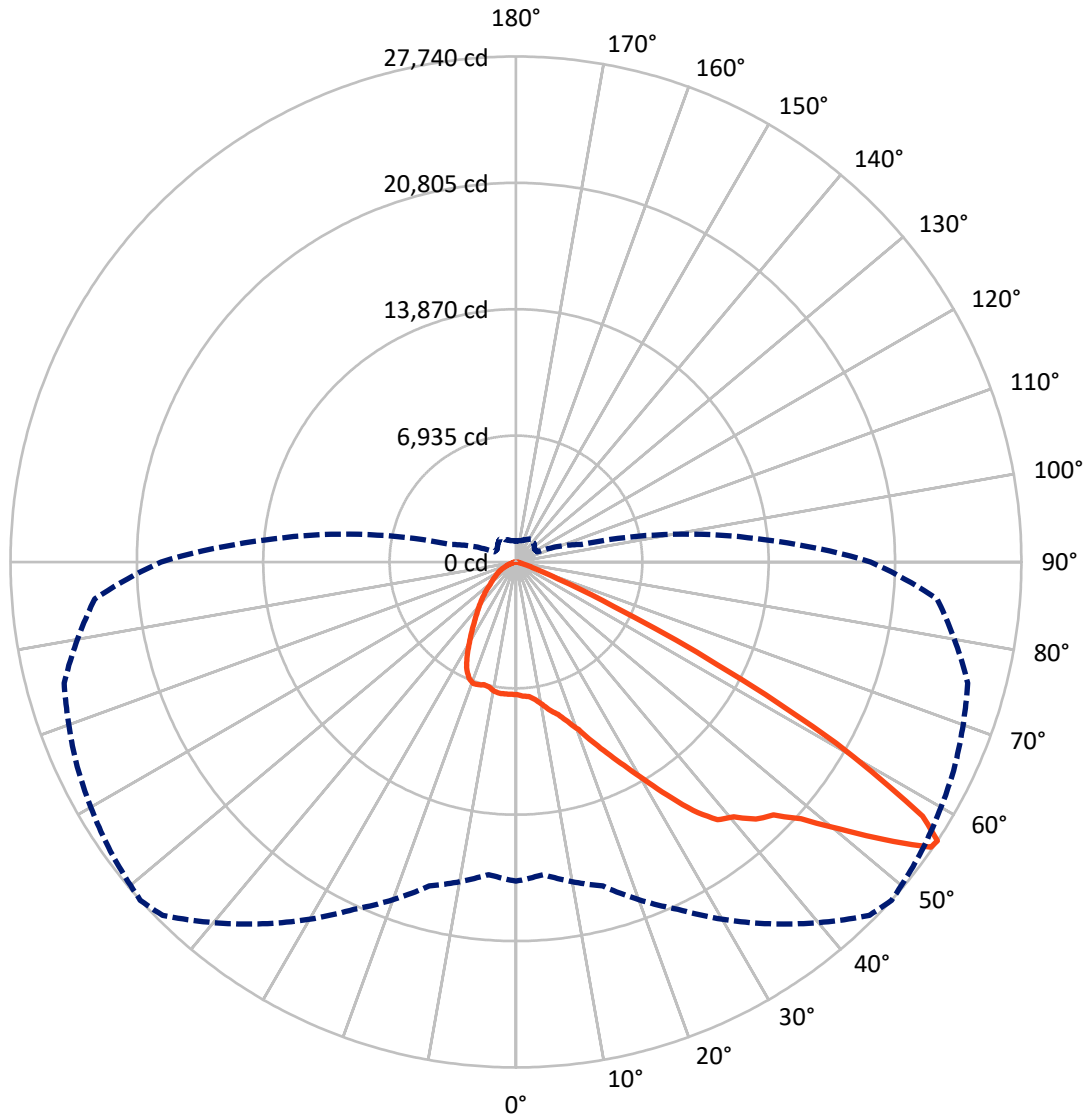
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8277.3	0.0	8277.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	29782.7	0.0	29782.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	38060.0	0.0	38060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.1	1.9
10°-20°	2263.0	5.9
20°-30°	4104.7	10.8
30°-40°	6447.7	16.9
40°-50°	9406.0	24.7
50°-60°	11332.4	29.8
60°-70°	3318.0	8.7
70°-80°	420.9	1.1
80°-90°	59.0	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°	38060.0	100.0
0°-180°	38060.0	100.0

Coefficient of Utilization

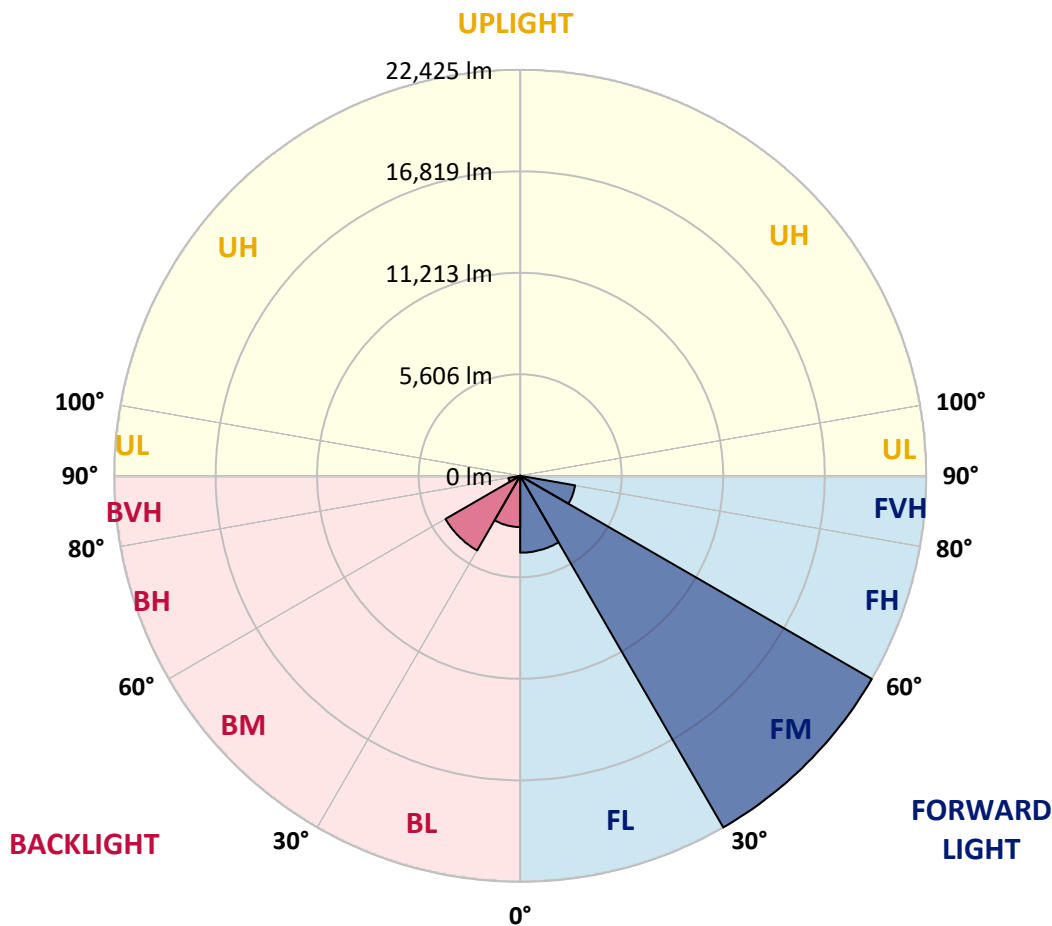


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4246.7	11.2			
FM (30°-60°)	22425.1	58.9			
FH (60°-80°)	3081.2	8.1			G2/5000
FVH (80°-90°)	29.6	0.1			G1/100
BL (0°-30°)	2829.2	7.4	B4/5000		
BM (30°-60°)	4761.1	12.5	B3/5000		
BH (60°-80°)	657.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	29.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5
2.5°	7401.1	7366.5	7366.5	7311.1	7373.4	7345.7	7366.5	7297.2	7366.5	7262.5	7345.7
5°	7435.8	7442.7	7415.0	7449.7	7449.7	7491.2	7421.9	7484.3	7519.0	7442.7	7408.1
7.5°	7616.0	7629.8	7622.9	7595.2	7650.6	7643.7	7636.8	7588.3	7602.1	7574.4	7532.8
10°	7969.4	7962.5	7997.1	7927.8	7886.2	7934.7	7948.6	7872.4	7816.9	7796.1	7664.5
12.5°	8482.2	8399.1	8350.5	8281.2	8302.0	8232.7	8357.5	8225.8	8198.1	8073.3	7941.7
15°	8898.0	8884.1	8891.1	8780.2	8655.5	8683.2	8683.2	8613.9	8572.3	8419.8	8232.7
17.5°	9750.4	9459.3	9521.7	9383.1	9279.2	9272.2	9209.9	9223.7	9112.8	8794.1	8509.9
20°	10415.7	10290.9	10193.9	9958.3	9798.9	9847.4	9819.7	9750.4	9715.7	9299.9	8898.0
22.5°	11011.6	11053.2	10893.8	10831.5	10609.7	10630.5	10685.9	10623.6	10360.2	9930.6	9334.6
25°	11850.1	11801.6	11586.8	11510.6	11302.7	11378.9	11593.7	11545.2	11378.9	10602.8	9674.2
27.5°	12841.1	12674.8	12716.4	12369.9	12168.9	12383.8	12640.2	12882.7	12411.5	11392.8	10076.1
30°	13541.0	13367.8	13353.9	13340.1	13291.6	13541.0	13839.0	14060.8	13679.6	12182.8	10741.4
32.5°	13887.5	13929.1	14046.9	14005.3	14428.1	14940.9	15252.7	15571.5	15093.3	13471.7	11621.5
35°	14809.2	14545.9	14809.2	14836.9	15273.5	16361.5	16756.5	17518.8	17401.0	15294.3	12695.6
37.5°	15349.8	15329.0	15363.6	15626.9	16049.7	17394.1	17955.4	18544.4	18322.7	16389.2	14033.1
40°	16243.7	16299.2	16292.2	16493.2	16957.5	18170.2	18398.9	18877.1	18897.9	17906.9	16001.2
42.5°	17678.2	17456.4	17310.9	17518.8	18170.2	18842.4	19299.8	19202.8	19888.8	19750.2	18530.6
45°	18967.2	19098.8	18884.0	19230.5	19466.1	19826.5	19812.6	20020.5	20893.7	21552.0	20436.3
47.5°	20173.0	20256.1	20360.1	20595.7	21108.5	21163.9	21046.1	20956.1	22161.9	22841.0	21912.4
50°	20893.7	20969.9	21455.0	21877.7	22834.1	22958.8	23028.1	22799.4	23617.1	23693.4	23305.3
52.5°	20699.6	20782.8	21461.9	22854.8	24379.4	25522.9	25315.0	24926.9	24878.4	25176.4	24594.3
55°	18981.0	18904.8	19840.3	22009.4	24864.5	27608.8	27636.5	27227.6	26444.5	26243.6	24400.2
56°	17518.8	17220.8	18412.8	21032.3	24240.8	27428.6	27740.4	27303.8	26569.3	25668.4	23201.3
57.5°	14351.8	14636.0	15821.0	17990.0	22085.6	26132.7	26312.9	26208.9	25654.5	24143.8	20415.5
60°	7914.0	8412.9	9459.3	12113.5	15724.0	20055.2	20200.7	21046.1	21150.1	18489.0	14046.9
62.5°	3361.0	3305.6	4393.6	6347.8	8953.4	12106.6	12376.8	13243.1	13402.4	10658.2	7047.7
65°	1365.2	1441.4	1988.9	3194.7	4733.1	5516.2	5897.4	6181.5	6708.2	4400.5	2598.7
67.5°	900.9	894.0	1171.2	1822.6	2550.2	2460.1	2460.1	2598.7	2404.7	1794.8	1122.6
70°	644.5	665.3	838.5	1261.2	1586.9	1178.1	1129.6	1081.1	1226.6	1185.0	907.8
72.5°	422.7	450.4	561.3	755.4	824.7	644.5	644.5	776.2	1011.8	956.3	741.5
75°	277.2	284.1	346.5	436.6	408.9	332.6	367.3	519.7	734.6	706.9	526.7
77.5°	187.1	194.0	235.6	284.1	228.7	187.1	201.0	263.3	360.4	360.4	277.2
80°	69.3	76.2	97.0	90.1	103.9	131.7	145.5	180.2	214.8	214.8	187.1
82.5°	0.0	6.9	20.8	48.5	76.2	103.9	117.8	138.6	159.4	180.2	173.2
85°	0.0	6.9	20.8	34.6	55.4	62.4	69.3	48.5	41.6	41.6	34.6
87.5°	0.0	0.0	6.9	6.9	6.9	6.9	6.9	6.9	13.9	6.9	6.9
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°	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5	7269.5
2.5°	7269.5	7262.5	7262.5	7241.8	7283.3	7262.5	7276.4	7269.5	7179.4	7248.7	7200.2
5°	7345.7	7394.2	7318.0	7304.1	7248.7	7269.5	7269.5	7200.2	7262.5	7255.6	7241.8
7.5°	7539.7	7456.6	7373.4	7290.3	7276.4	7255.6	7179.4	7151.7	7200.2	7144.7	7227.9
10°	7622.9	7636.8	7512.0	7401.1	7297.2	7151.7	7047.7	6985.4	6909.1	6992.3	7040.8
12.5°	8004.0	7865.4	7650.6	7477.4	7123.9	6978.4	6874.5	6846.8	6978.4	7006.1	6957.6
15°	8135.7	8114.9	7837.7	7449.7	7082.4	6909.1	6929.9	6874.5	6888.3	6819.0	6832.9
17.5°	8406.0	8170.4	7844.7	7359.6	7075.4	7033.9	6909.1	6687.4	6562.6	6507.2	6555.7
20°	8704.0	8475.3	8004.0	7394.2	7137.8	7026.9	6618.1	6347.8	6091.4	5952.8	5959.7
22.5°	8967.3	8683.2	7934.7	7408.1	7193.2	6735.9	6243.8	5710.2	5391.5	5176.6	5183.6
25°	9286.1	8884.1	7962.5	7435.8	7047.7	6271.6	5564.7	5045.0	4663.8	4518.3	4566.8
27.5°	9466.3	9008.9	8114.9	7498.2	6666.6	5613.2	4850.9	4365.8	4144.1	4074.8	4067.9
30°	10006.8	9286.1	8302.0	7373.4	6029.0	4906.4	4199.5	3901.5	3686.7	3624.3	3638.2
32.5°	10810.7	9792.0	8544.6	7047.7	5377.6	4275.8	3776.8	3555.0	3354.1	3236.3	3222.4
35°	11482.9	10658.2	8801.0	6541.8	4622.3	3790.7	3478.8	3201.6	2896.7	2765.0	2730.4
37.5°	12764.9	11635.3	8745.5	5779.5	3901.5	3430.3	3160.0	2820.5	2557.1	2377.0	2356.2
40°	14469.7	12778.8	8475.3	4850.9	3367.9	3111.5	2820.5	2494.8	2169.1	2016.6	2002.7
42.5°	16541.7	14178.6	7983.3	3908.5	2834.3	2792.8	2529.4	2155.2	1864.1	1753.3	1760.2
45°	18225.7	15377.5	7484.3	3139.2	2439.3	2480.9	2252.2	1898.8	1697.8	1607.7	1607.7
47.5°	19722.5	16188.3	6943.8	2591.8	2072.0	2169.1	1968.1	1760.2	1586.9	1517.7	1503.8
50°	21163.9	17012.9	6403.2	2099.8	1767.1	1864.1	1843.4	1677.0	1538.4	1455.3	1462.2
52.5°	22064.8	17144.6	5717.2	1718.6	1545.4	1656.2	1725.5	1573.1	1420.6	1372.1	1358.3
55°	20963.0	15446.8	4435.1	1413.7	1309.8	1455.3	1586.9	1413.7	1295.9	1212.7	1205.8
56°	19480.0	13811.3	3707.5	1302.8	1240.5	1399.8	1538.4	1351.3	1219.7	1171.2	1136.5
57.5°	16493.2	11302.7	2737.3	1157.3	1150.4	1302.8	1462.2	1289.0	1136.5	1094.9	1094.9
60°	10284.0	6361.7	1656.2	970.2	997.9	1157.3	1316.7	1150.4	1011.8	1011.8	1032.6
62.5°	4684.6	2647.2	1004.8	824.7	859.3	997.9	1171.2	1039.5	963.3	1039.5	1053.3
65°	1593.9	1143.4	727.6	658.3	679.1	824.7	1004.8	1053.3	1046.4	1094.9	1122.6
67.5°	894.0	734.6	609.8	547.5	533.6	609.8	824.7	1053.3	1011.8	991.0	1004.8
70°	755.4	623.7	540.5	485.1	464.3	492.0	637.6	796.9	713.8	693.0	679.1
72.5°	609.8	519.7	471.2	436.6	374.2	318.8	291.1	304.9	339.6	360.4	395.0
75°	429.7	395.0	395.0	353.4	270.3	201.0	159.4	131.7	90.1	62.4	69.3
77.5°	242.5	242.5	249.5	214.8	173.2	131.7	97.0	69.3	34.6	13.9	6.9
80°	166.3	180.2	194.0	173.2	145.5	117.8	83.2	48.5	20.8	0.0	0.0
82.5°	166.3	187.1	201.0	173.2	145.5	110.9	83.2	48.5	20.8	6.9	0.0
85°	34.6	41.6	48.5	55.4	83.2	83.2	62.4	41.6	20.8	6.9	0.0
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	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)