

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: P456387

Luminaire Tested: **GALN-SA7C-827-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36686 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

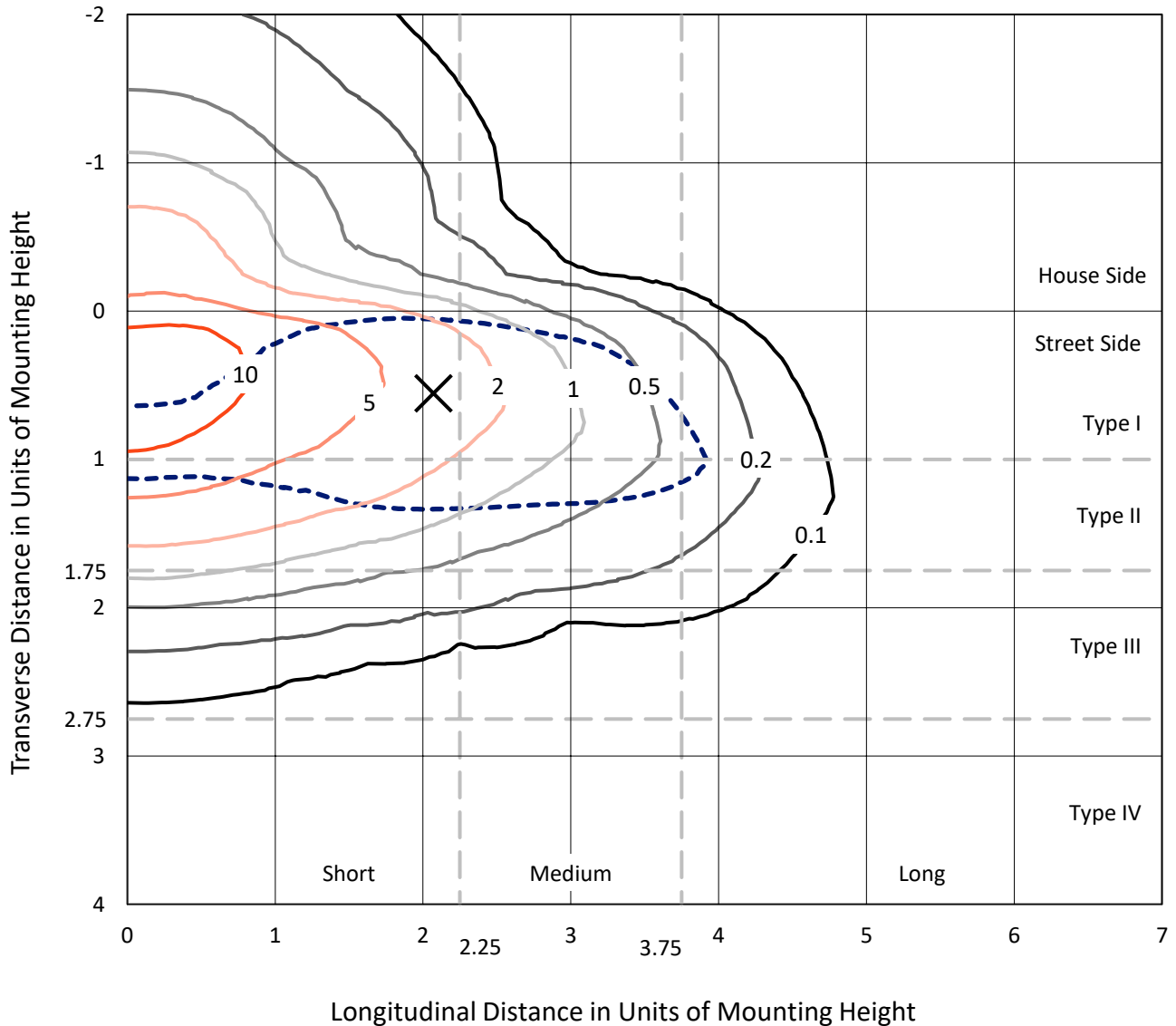
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

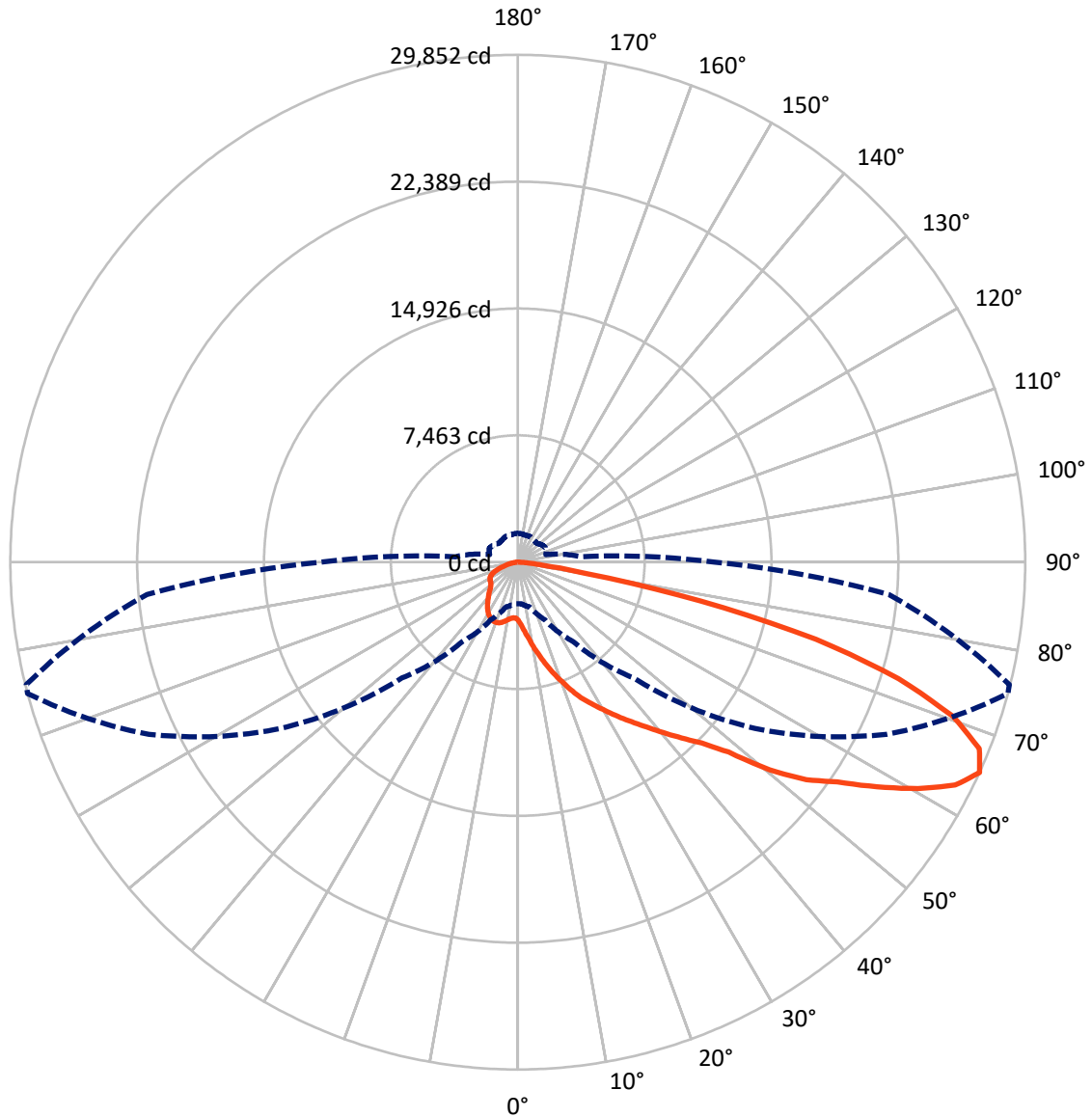
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6167.4	0.0	6167.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	30518.6	0.0	30518.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	36686.0	0.0	36686.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.1	1.1
10°-20°	1622.1	4.4
20°-30°	3133.4	8.5
30°-40°	5089.5	13.9
40°-50°	7001.1	19.1
50°-60°	8265.9	22.5
60°-70°	7242.3	19.7
70°-80°	3457.5	9.4
80°-90°	460.1	1.3
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°	36686.0	100.0
0°-180°	36686.0	100.0



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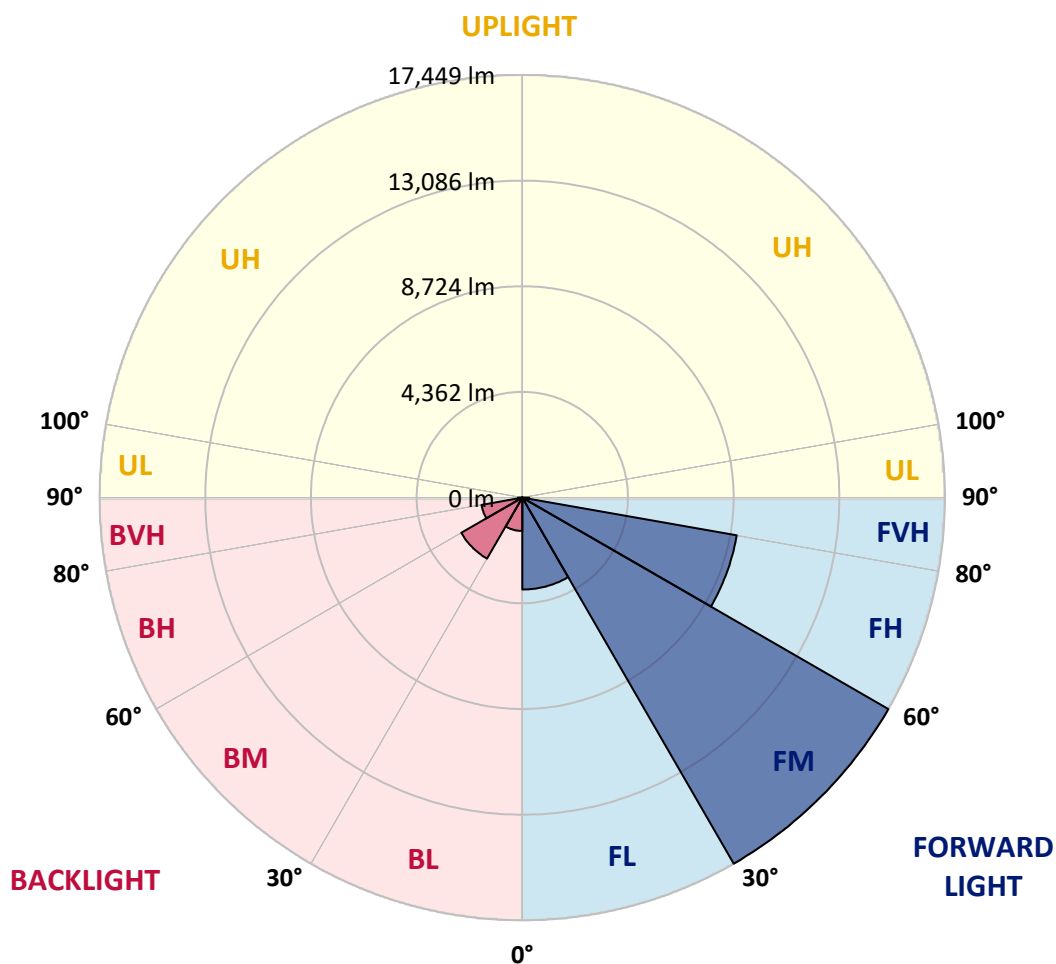
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3792.7	10.3			
FM	(30°-60°)	17448.6	47.6			
FH	(60°-80°)	8989.7	24.5			G4/12000
FVH	(80°-90°)	287.5	0.8			G3/500
BL	(0°-30°)	1376.9	3.8	B3/2500		
BM	(30°-60°)	2907.9	7.9	B3/5000		
BH	(60°-80°)	1710.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	172.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6
2.5°	4528.9	4499.0	4467.2	4379.6	4286.1	4180.6	4029.4	3884.2	3691.1	3685.2	3541.9
5°	5784.5	5764.6	5623.3	5541.7	5324.8	5036.3	4791.5	4411.5	4059.3	4017.5	3738.9
7.5°	6938.6	6861.0	6807.2	6660.0	6445.1	6075.0	5601.4	5088.0	4499.0	4443.3	3981.7
10°	7808.1	7800.2	7772.3	7645.0	7483.8	7115.7	6590.3	5854.1	5056.2	4946.7	4276.2
12.5°	8458.8	8464.8	8460.8	8458.8	8343.4	8031.0	7461.9	6685.9	5619.3	5541.7	4616.4
15°	8886.6	8946.3	8970.2	9069.7	9079.6	8870.7	8381.2	7489.8	6254.1	6138.7	4982.6
17.5°	9169.2	9199.0	9310.5	9479.6	9616.9	9579.1	9143.3	8234.0	6902.7	6709.7	5362.6
20°	9439.8	9491.5	9577.1	9807.9	10050.7	10162.1	9855.7	8996.1	7545.5	7422.1	5782.5
22.5°	10002.9	10076.5	10106.4	10223.8	10430.7	10627.7	10488.4	9726.3	8249.9	8082.7	6228.2
25°	10956.0	11033.7	10950.1	10922.2	10989.9	11087.4	11057.5	10414.8	8914.5	8675.7	6650.0
27.5°	12197.7	12207.7	12044.5	11889.3	11722.1	11672.4	11580.9	11025.7	9491.5	9292.5	7073.9
30°	13530.9	13483.1	13212.5	12932.0	12649.4	12370.8	12108.2	11614.7	10134.2	9905.4	7489.8
32.5°	14768.6	14742.7	14442.2	14006.5	13528.9	13266.3	12735.0	12209.6	10822.7	10601.9	7917.6
35°	15695.8	15733.7	15403.3	14927.8	14406.4	14173.6	13503.0	12834.5	11535.1	11294.3	8383.2
37.5°	16354.5	16334.6	16042.1	15630.2	15172.5	14969.6	14400.5	13517.0	12301.2	12070.4	8892.6
40°	16589.3	16577.3	16360.4	16060.0	15769.5	15697.8	15339.7	14253.2	13178.7	12908.1	9505.5
42.5°	16440.0	16465.9	16322.6	16241.1	16187.3	16239.1	16272.9	15218.3	14135.8	13887.1	10170.1
45°	15982.4	15968.5	15948.6	16081.9	16384.3	16724.6	17196.2	16129.6	15176.5	14977.5	11061.5
47.5°	15164.6	15264.0	15313.8	15681.9	16342.5	17148.4	18258.8	17351.4	16686.8	16513.7	12420.6
50°	14020.4	14100.0	14394.5	15049.1	16034.1	17307.6	19297.5	19349.2	19205.9	18881.6	13897.0
52.5°	12233.5	12356.9	12963.8	14163.7	15401.3	17241.9	19926.2	21062.4	21251.5	21008.7	15351.6
55°	10233.7	10406.9	11047.6	12621.5	14529.8	16883.8	20360.0	22055.4	22809.5	22584.7	16752.4
57.5°	8275.7	8458.8	9117.4	10641.7	13009.6	16091.8	20644.6	23161.7	24930.7	24638.2	18495.5
60°	6202.3	6393.3	6958.5	8528.4	10844.6	14543.7	20451.6	24120.8	27049.9	26924.5	20240.6
62.5°	4001.6	4212.5	4704.0	6003.3	8335.4	12428.5	19418.8	24650.1	28884.5	28733.3	21514.1
65°	2437.6	2461.4	2732.0	3727.0	5704.9	9622.9	17056.9	23947.7	29851.6	29805.8	21902.1
67.5°	1576.0	1613.8	1737.1	2232.6	3420.5	6683.9	13638.4	21629.5	29286.4	29270.5	21100.2
70°	1331.2	1343.1	1398.9	1506.3	1987.8	4053.3	9577.1	17934.4	27139.4	27139.4	19172.1
72.5°	1189.9	1205.8	1225.7	1259.6	1418.8	2296.3	5714.8	13960.7	23432.3	23587.5	16318.7
75°	1080.5	1076.5	1088.4	1094.4	1209.8	1500.3	2954.9	10325.3	18127.4	17817.0	11817.6
77.5°	925.3	931.2	925.3	951.1	1068.5	1142.2	1500.3	6928.6	10985.9	10583.9	5931.7
80°	760.1	770.1	780.0	795.9	913.3	867.6	901.4	3157.9	4063.2	3977.7	1832.6
82.5°	571.1	585.0	600.9	638.7	718.3	573.1	569.1	1349.1	1466.5	1343.1	674.6
85°	230.8	272.6	411.9	449.7	451.7	314.4	350.2	563.1	598.9	585.0	264.6
87.5°	53.7	63.7	133.3	201.0	185.1	117.4	129.3	183.1	208.9	193.0	89.5
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°	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6	3408.6
2.5°	3476.2	3406.6	3287.2	3195.7	3130.0	3072.3	3036.5	3014.6	3006.6	3004.7	3006.6
5°	3593.6	3470.3	3281.2	3161.9	3096.2	3058.4	3036.5	3034.5	3036.5	3038.5	3032.5
7.5°	3754.8	3577.7	3331.0	3219.6	3169.8	3142.0	3132.0	3128.0	3130.0	3128.0	3128.0
10°	3969.7	3727.0	3428.5	3313.1	3271.3	3239.5	3223.5	3213.6	3205.6	3197.7	3193.7
12.5°	4206.5	3892.1	3534.0	3422.5	3362.8	3313.1	3277.3	3251.4	3233.5	3215.6	3211.6
15°	4471.2	4067.2	3651.4	3496.1	3410.6	3337.0	3275.3	3233.5	3201.6	3175.8	3173.8
17.5°	4723.9	4232.4	3730.9	3530.0	3404.6	3301.1	3219.6	3161.9	3122.1	3088.2	3084.2
20°	4994.5	4389.6	3766.8	3508.1	3344.9	3219.6	3112.1	3042.5	2996.7	2958.9	2952.9
22.5°	5267.1	4522.9	3762.8	3438.4	3241.4	3094.2	2980.8	2907.2	2853.4	2815.6	2801.7
25°	5527.8	4630.4	3713.0	3327.0	3098.2	2945.0	2829.5	2761.9	2714.1	2668.4	2668.4
27.5°	5762.6	4694.0	3619.5	3191.7	2950.9	2789.8	2698.2	2636.5	2592.8	2562.9	2545.0
30°	5993.4	4723.9	3492.2	3020.6	2795.7	2658.4	2584.8	2549.0	2509.2	2475.4	2471.4
32.5°	6200.3	4717.9	3333.0	2853.4	2648.5	2551.0	2521.1	2493.3	2451.5	2403.7	2391.8
35°	6401.3	4678.1	3143.9	2670.4	2525.1	2487.3	2495.3	2455.5	2379.8	2320.2	2310.2
37.5°	6620.2	4606.5	2937.0	2521.1	2421.6	2457.5	2477.3	2389.8	2266.4	2172.9	2151.0
40°	6872.9	4524.9	2722.1	2371.9	2340.0	2429.6	2429.6	2268.4	2099.3	2041.6	2025.7
42.5°	7169.4	4457.2	2543.0	2246.5	2272.4	2361.9	2352.0	2107.2	2037.6	2007.7	1999.8
45°	7639.0	4433.4	2358.0	2137.1	2216.7	2282.3	2200.8	2051.5	2011.7	1987.8	1979.9
47.5°	8381.2	4461.2	2194.8	2055.5	2153.0	2202.8	2031.6	2013.7	1985.9	1952.0	1948.1
50°	9069.7	4435.3	2079.4	2009.7	2097.3	2107.2	1962.0	1967.9	1952.0	1914.2	1906.3
52.5°	9632.8	4353.8	2005.8	1985.9	2049.5	1940.1	1896.3	1918.2	1912.2	1864.5	1856.5
55°	10251.6	4304.0	1969.9	1985.9	2017.7	1794.8	1834.6	1866.5	1858.5	1824.7	1822.7
57.5°	11001.8	4314.0	1944.1	1991.8	1985.9	1721.2	1772.9	1810.8	1808.8	1798.8	1798.8
60°	11769.9	4317.9	1904.3	1989.8	1948.1	1663.5	1709.3	1763.0	1767.0	1772.9	1772.9
62.5°	12024.6	4144.8	1826.7	1954.0	1864.5	1607.8	1649.6	1723.2	1719.2	1735.1	1737.1
65°	11549.0	3665.3	1711.3	1872.4	1757.0	1568.0	1603.8	1671.5	1649.6	1691.4	1699.3
67.5°	10512.3	3032.5	1532.2	1725.2	1637.6	1526.2	1574.0	1599.8	1560.0	1641.6	1643.6
70°	9085.6	2367.9	1305.3	1516.3	1502.3	1482.4	1550.1	1510.3	1454.6	1554.1	1534.2
72.5°	7597.2	1808.8	1042.7	1239.7	1321.3	1416.8	1508.3	1394.9	1317.3	1347.1	1311.3
75°	5706.9	1337.2	837.7	971.0	1100.4	1323.2	1470.5	1255.6	1136.2	1108.3	1100.4
77.5°	2909.1	873.5	626.8	726.3	825.8	1195.9	1418.8	1092.4	941.2	897.4	877.5
80°	1038.7	543.2	441.7	501.4	557.2	1028.7	1239.7	903.4	730.3	722.3	730.3
82.5°	481.5	350.2	296.5	328.3	330.3	686.5	945.2	674.6	555.2	843.7	712.4
85°	206.9	175.1	167.1	163.2	151.2	306.4	531.3	362.2	565.1	252.7	232.8
87.5°	61.7	69.6	61.7	45.8	33.8	33.8	53.7	19.9	13.9	9.9	9.9
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)