

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: P456735

Luminaire Tested: **GALN-SA8A-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456735
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-SA8A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34274 lumens
Efficiency: N/A
Efficacy: 140.5 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

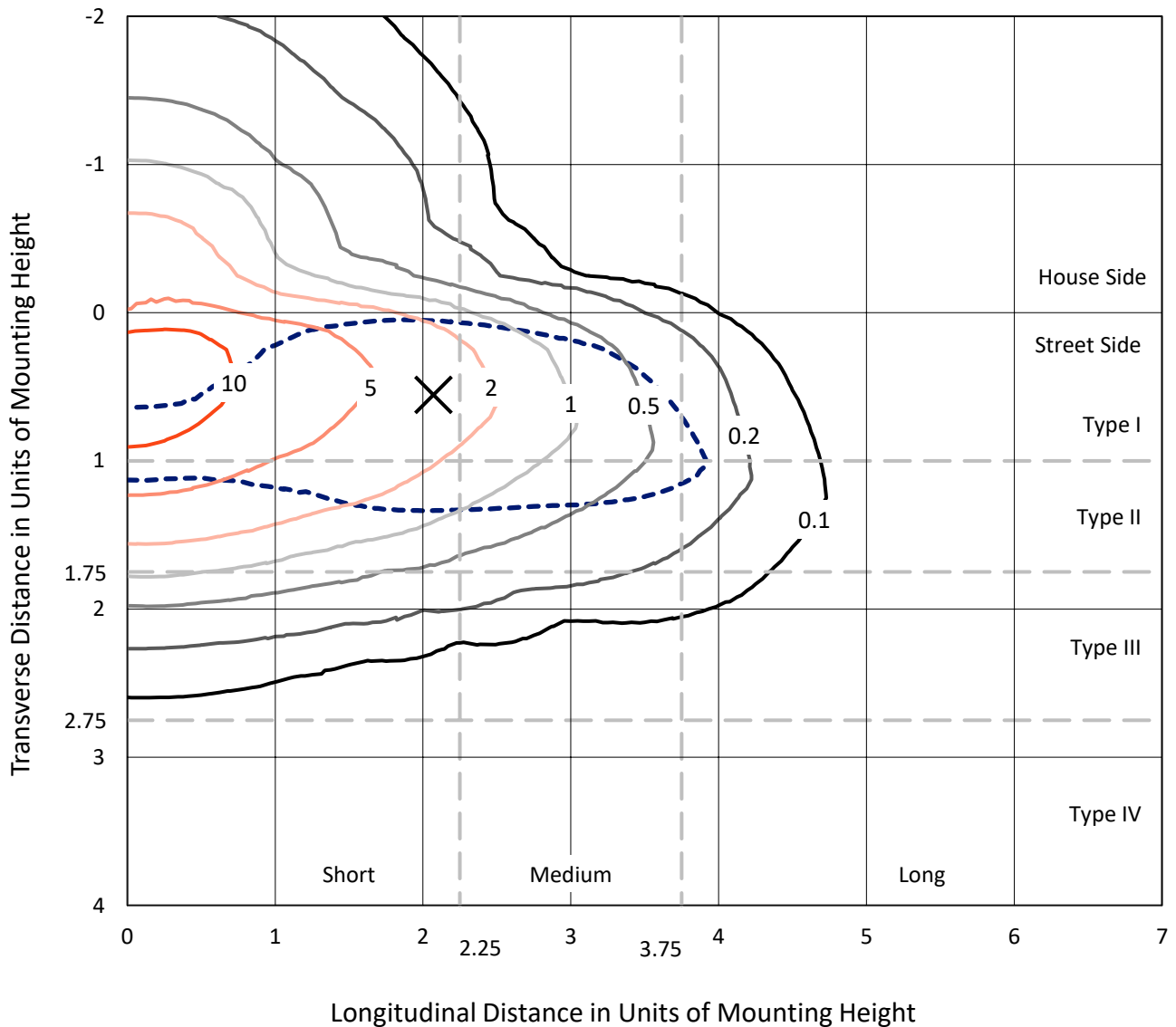
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456735
 CATALOG NUMBER: GALN-SA8A-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

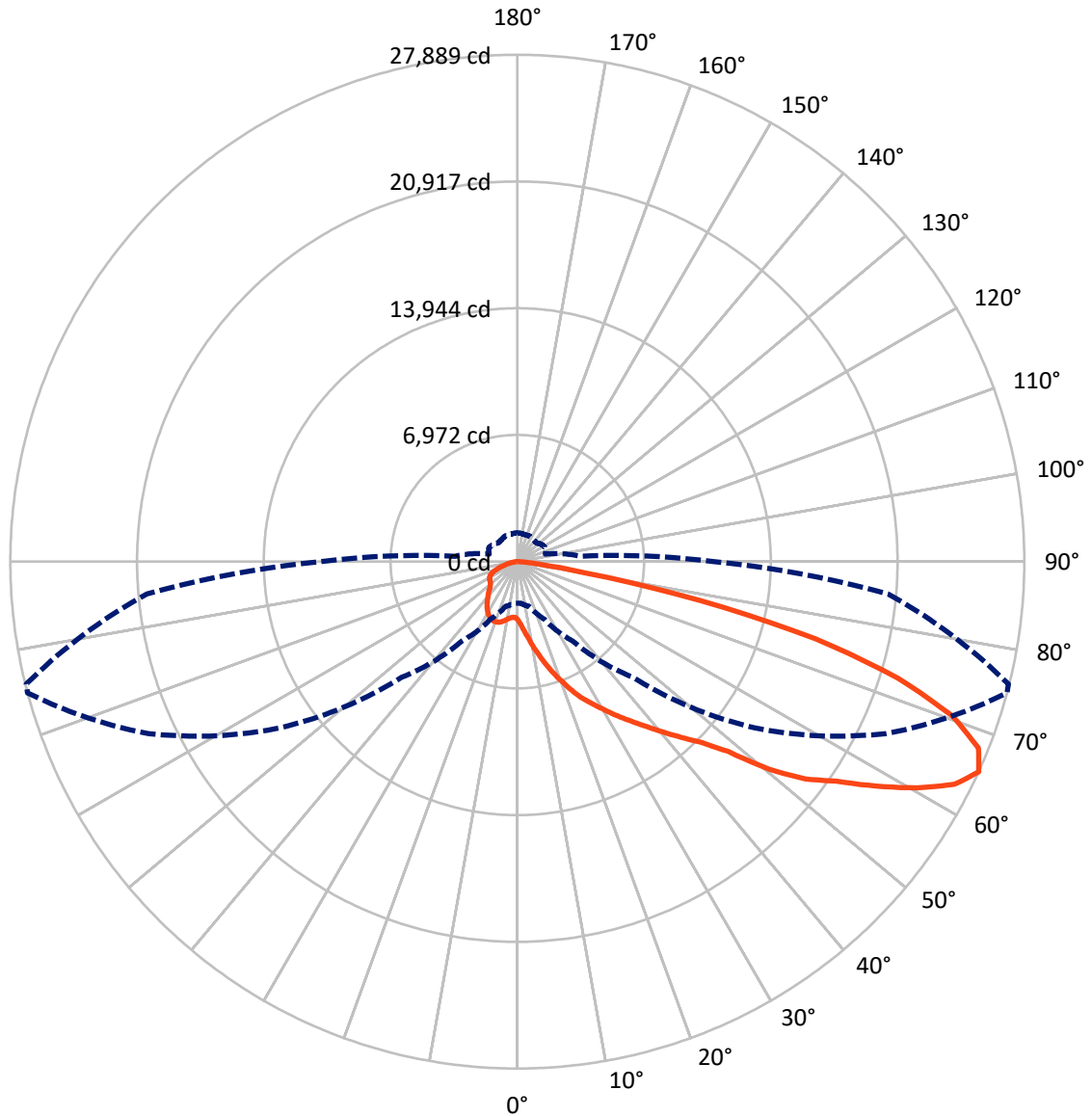
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

REPORT NUMBER: P456735
CATALOG NUMBER: GALN-SA8A-730-U-T2R

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	5761.9	0.0	5761.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	28512.1	0.0	28512.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	34274.0	0.0	34274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.9	1.1
10°-20°	1515.5	4.4
20°-30°	2927.3	8.5
30°-40°	4754.9	13.9
40°-50°	6540.8	19.1
50°-60°	7722.4	22.5
60°-70°	6766.1	19.7
70°-80°	3230.2	9.4
80°-90°	429.8	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°	34274.0	100.0
0°-180°	34274.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456735

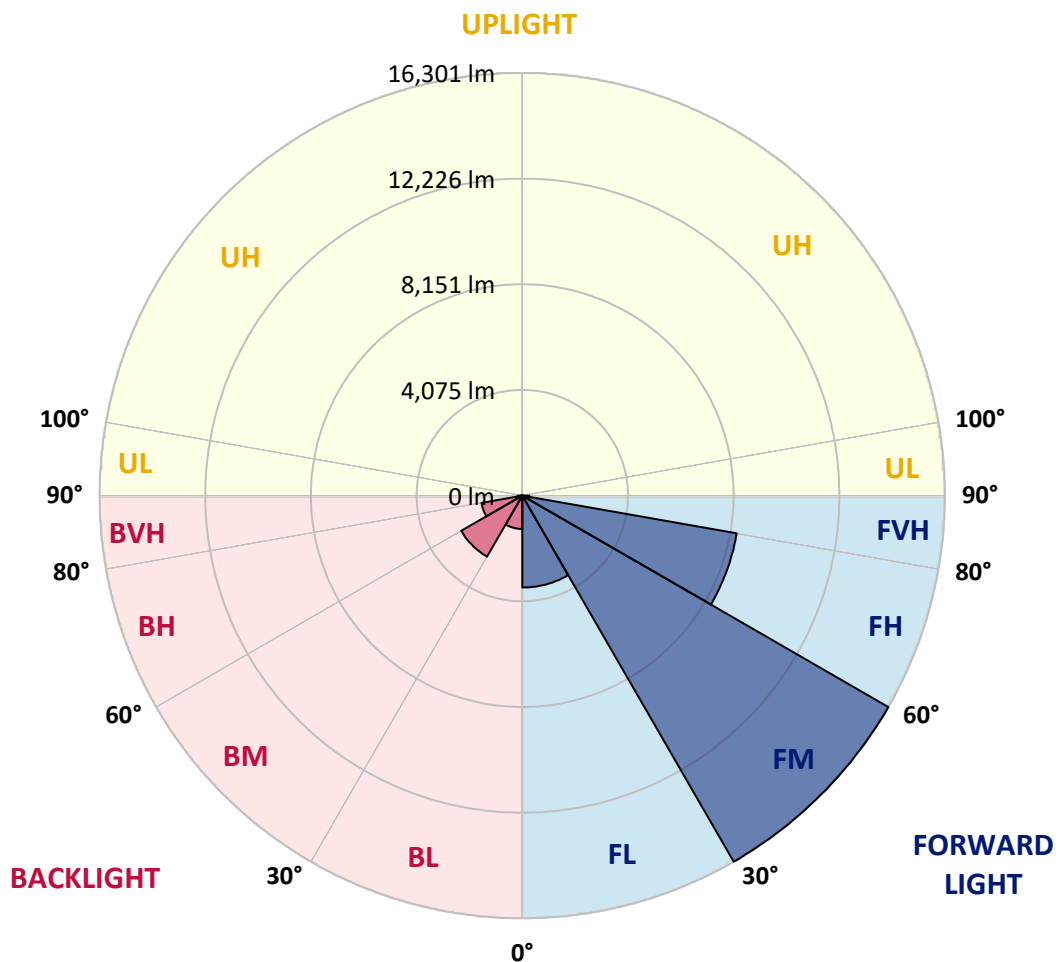
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3543.4	10.3			
FM	(30°-60°)	16301.4	47.6			
FH	(60°-80°)	8398.7	24.5			G4/12000
FVH	(80°-90°)	268.6	0.8			G3/500
BL	(0°-30°)	1286.3	3.8	B3/2500		
BM	(30°-60°)	2716.7	7.9	B3/5000		
BH	(60°-80°)	1597.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	161.2	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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CATALOG NUMBER: GALN-SA8A-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5
2.5°	4231.1	4203.2	4173.5	4091.7	4004.3	3905.8	3764.5	3628.8	3448.5	3442.9	3309.0
5°	5404.1	5385.6	5253.6	5177.3	4974.7	4705.2	4476.5	4121.4	3792.4	3753.3	3493.1
7.5°	6482.4	6409.9	6359.7	6222.1	6021.3	5675.6	5233.1	4753.5	4203.2	4151.2	3719.9
10°	7294.8	7287.3	7261.3	7142.3	6991.7	6647.8	6157.0	5469.2	4723.7	4621.5	3995.0
12.5°	7902.7	7908.2	7904.5	7902.7	7794.8	7503.0	6971.3	6246.3	5249.8	5177.3	4312.9
15°	8302.3	8358.1	8380.4	8473.4	8482.7	8287.5	7830.2	6997.3	5842.9	5735.1	4655.0
17.5°	8566.3	8594.2	8698.3	8856.3	8984.6	8949.3	8542.2	7692.6	6448.9	6268.6	5010.0
20°	8819.2	8867.5	8947.4	9163.1	9389.9	9494.0	9207.7	8404.6	7049.4	6934.1	5402.3
22.5°	9345.3	9414.0	9441.9	9551.6	9744.9	9929.0	9798.9	9086.9	7707.5	7551.3	5818.7
25°	10235.7	10308.2	10230.1	10204.1	10267.3	10358.4	10330.5	9730.1	8328.4	8105.3	6212.8
27.5°	11395.7	11405.0	11252.6	11107.6	10951.4	10905.0	10819.4	10300.8	8867.5	8681.6	6608.8
30°	12641.3	12596.7	12343.8	12081.7	11817.7	11557.5	11312.1	10851.1	9467.9	9254.2	6997.3
32.5°	13797.6	13773.4	13492.7	13085.6	12639.4	12394.0	11897.7	11406.9	10111.2	9904.8	7397.0
35°	14663.9	14699.2	14390.6	13946.3	13459.2	13241.7	12615.3	11990.6	10776.7	10551.8	7832.0
37.5°	15279.2	15260.6	14987.4	14602.5	14175.0	13985.3	13453.7	12628.3	11492.4	11276.8	8307.9
40°	15498.6	15487.4	15284.8	15004.1	14732.7	14665.7	14331.1	13316.1	12312.2	12059.4	8880.5
42.5°	15359.2	15383.3	15249.5	15173.3	15123.1	15171.4	15203.0	14217.7	13206.4	12974.0	9501.4
45°	14931.6	14918.6	14900.0	15024.5	15307.1	15625.0	16065.6	15069.2	14178.7	13992.8	10334.2
47.5°	14167.5	14260.5	14307.0	14650.9	15268.1	16021.0	17058.3	16210.6	15589.7	15427.9	11604.0
50°	13098.6	13173.0	13448.1	14059.7	14979.9	16169.7	18028.7	18077.0	17943.2	17640.2	12983.3
52.5°	11429.2	11544.5	12111.5	13232.4	14388.8	16108.3	18616.1	19677.6	19854.2	19627.4	14342.3
55°	9560.9	9722.6	10321.2	11791.7	13574.5	15773.7	19021.4	20605.3	21309.9	21099.8	15651.0
57.5°	7731.6	7902.7	8518.0	9942.0	12154.2	15033.8	19287.2	21638.9	23291.6	23018.3	17279.5
60°	5794.5	5973.0	6501.0	7967.7	10131.6	13587.5	19106.9	22534.9	25271.4	25154.3	18909.9
62.5°	3738.5	3935.5	4394.7	5608.6	7787.4	11611.4	18142.1	23029.4	26985.4	26844.1	20099.6
65°	2277.3	2299.6	2552.4	3481.9	5329.8	8990.2	15935.5	22373.2	27888.9	27846.1	20462.1
67.5°	1472.3	1507.7	1622.9	2085.8	3195.6	6244.4	12741.7	20207.5	27360.9	27346.1	19713.0
70°	1243.7	1254.8	1306.9	1407.3	1857.2	3786.8	8947.4	16755.3	25355.1	25355.1	17911.6
72.5°	1111.7	1126.6	1145.2	1176.8	1325.5	2145.3	5339.1	13042.8	21891.7	22036.7	15245.8
75°	1009.4	1005.7	1016.9	1022.5	1130.3	1401.7	2760.6	9646.4	16935.6	16645.6	11040.7
77.5°	864.4	870.0	864.4	888.6	998.3	1067.1	1401.7	6473.1	10263.6	9888.1	5541.7
80°	710.1	719.4	728.7	743.6	853.3	810.5	842.1	2950.3	3796.1	3716.2	1712.2
82.5°	533.5	546.5	561.4	596.7	671.1	535.4	531.7	1260.4	1370.1	1254.8	630.2
85°	215.6	254.7	384.8	420.1	422.0	293.7	327.2	526.1	559.6	546.5	247.2
87.5°	50.2	59.5	124.6	187.8	172.9	109.7	120.8	171.0	195.2	180.3	83.7
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°	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5
2.5°	3247.7	3182.6	3071.1	2985.6	2924.2	2870.3	2836.9	2816.4	2809.0	2807.1	2809.0
5°	3357.4	3242.1	3065.5	2954.0	2892.6	2857.3	2836.9	2835.0	2836.9	2838.7	2833.1
7.5°	3508.0	3342.5	3112.0	3007.9	2961.4	2935.4	2926.1	2922.4	2924.2	2922.4	2922.4
10°	3708.7	3481.9	3203.1	3095.3	3056.2	3026.5	3011.6	3002.3	2994.9	2987.4	2983.7
12.5°	3930.0	3636.2	3301.6	3197.5	3141.7	3095.3	3061.8	3037.6	3020.9	3004.2	3000.4
15°	4177.2	3799.8	3411.3	3266.3	3186.3	3117.6	3059.9	3020.9	2991.2	2967.0	2965.1
17.5°	4413.3	3954.1	3485.6	3297.9	3180.8	3084.1	3007.9	2954.0	2916.8	2885.2	2881.5
20°	4666.1	4101.0	3519.1	3277.4	3125.0	3007.9	2907.5	2842.4	2799.7	2764.4	2758.8
22.5°	4920.8	4225.5	3515.4	3212.4	3028.3	2890.8	2784.8	2716.0	2665.8	2630.5	2617.5
25°	5164.3	4325.9	3468.9	3108.3	2894.5	2751.3	2643.5	2580.3	2535.7	2492.9	2492.9
27.5°	5383.7	4385.4	3381.5	2981.9	2756.9	2606.3	2520.8	2463.2	2422.3	2394.4	2377.7
30°	5599.3	4413.3	3262.6	2822.0	2611.9	2483.6	2414.9	2381.4	2344.2	2312.6	2308.9
32.5°	5792.7	4407.7	3113.8	2665.8	2474.3	2383.3	2355.4	2329.3	2290.3	2245.7	2234.5
35°	5980.4	4370.5	2937.2	2494.8	2359.1	2323.8	2331.2	2294.0	2223.4	2167.6	2158.3
37.5°	6184.9	4303.6	2743.9	2355.4	2262.4	2295.9	2314.5	2232.7	2117.4	2030.0	2009.6
40°	6421.0	4227.4	2543.1	2215.9	2186.2	2269.9	2269.9	2119.3	1961.3	1907.3	1892.5
42.5°	6698.0	4164.2	2375.8	2098.8	2123.0	2206.6	2197.4	1968.7	1903.6	1875.7	1868.3
45°	7136.7	4141.9	2202.9	1996.6	2070.9	2132.3	2056.1	1916.6	1879.5	1857.2	1849.7
47.5°	7830.2	4167.9	2050.5	1920.4	2011.5	2057.9	1898.1	1881.3	1855.3	1823.7	1820.0
50°	8473.4	4143.7	1942.7	1877.6	1959.4	1968.7	1833.0	1838.6	1823.7	1788.4	1780.9
52.5°	8999.5	4067.5	1873.9	1855.3	1914.8	1812.5	1771.6	1792.1	1786.5	1741.9	1734.5
55°	9577.6	4021.0	1840.4	1855.3	1885.0	1676.8	1714.0	1743.8	1736.3	1704.7	1702.9
57.5°	10278.5	4030.3	1816.3	1860.9	1855.3	1608.0	1656.4	1691.7	1689.8	1680.5	1680.5
60°	10996.1	4034.1	1779.1	1859.0	1820.0	1554.1	1596.9	1647.1	1650.8	1656.4	1656.4
62.5°	11234.0	3872.3	1706.6	1825.5	1741.9	1502.1	1541.1	1609.9	1606.2	1621.1	1622.9
65°	10789.7	3424.3	1598.8	1749.3	1641.5	1464.9	1498.4	1561.6	1541.1	1580.2	1587.6
67.5°	9821.2	2833.1	1431.4	1611.8	1530.0	1425.9	1470.5	1494.6	1457.5	1533.7	1535.5
70°	8488.2	2212.2	1219.5	1416.6	1403.6	1385.0	1448.2	1411.0	1358.9	1451.9	1433.3
72.5°	7097.7	1689.8	974.1	1158.2	1234.4	1323.6	1409.1	1303.2	1230.7	1258.6	1225.1
75°	5331.6	1249.3	782.6	907.2	1028.0	1236.2	1373.8	1173.0	1061.5	1035.5	1028.0
77.5°	2717.9	816.1	585.6	678.5	771.5	1117.3	1325.5	1020.6	879.3	838.4	819.8
80°	970.4	507.5	412.7	468.5	520.5	961.1	1158.2	844.0	682.3	674.8	682.3
82.5°	449.9	327.2	277.0	306.7	308.6	641.4	883.0	630.2	518.7	788.2	665.5
85°	193.3	163.6	156.2	152.4	141.3	286.3	496.4	338.3	528.0	236.1	217.5
87.5°	57.6	65.1	57.6	42.8	31.6	31.6	50.2	18.6	13.0	9.3	9.3
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)