

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: P456043

Luminaire Tested: **GALN-SA7B-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36937 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

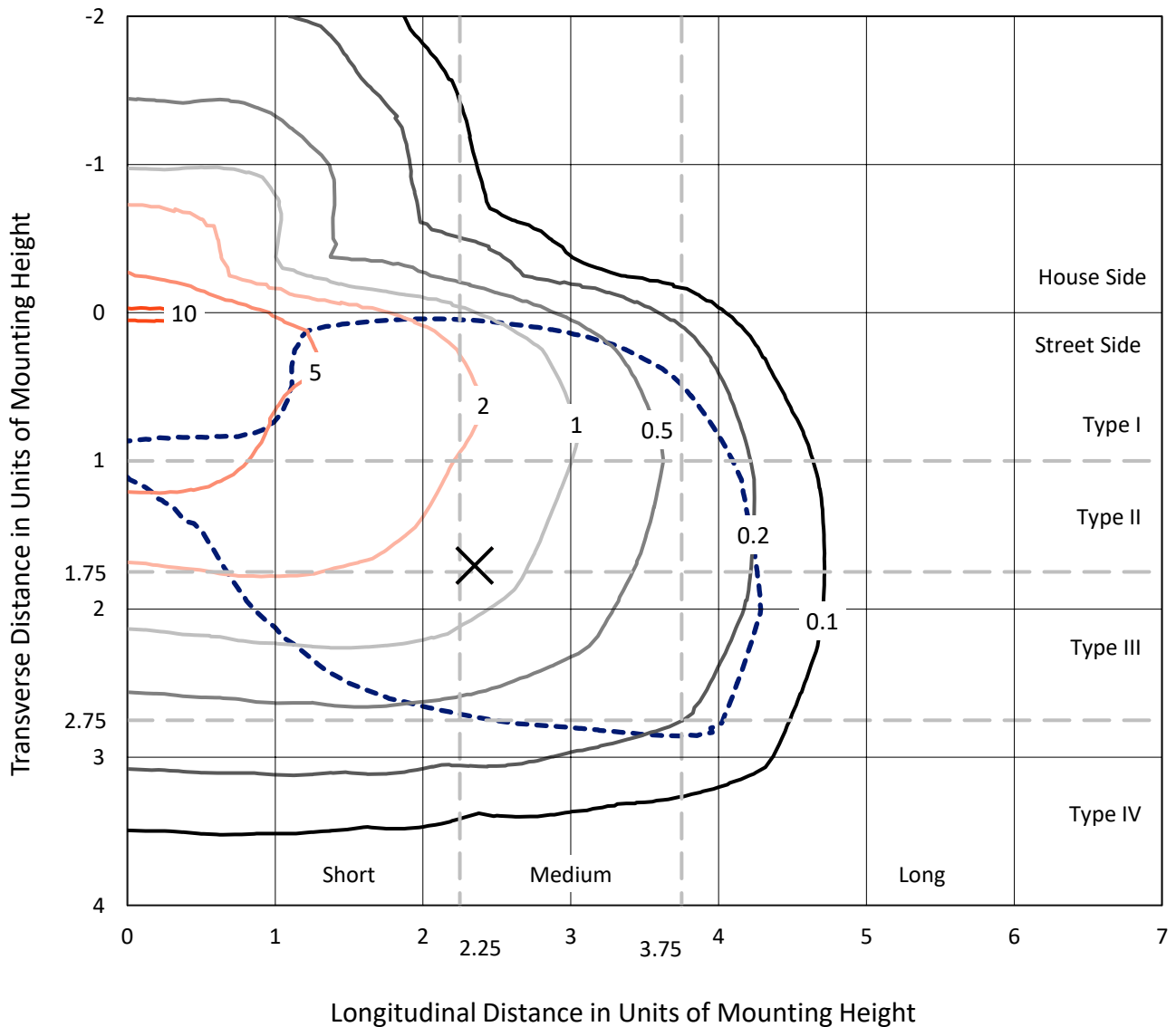
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

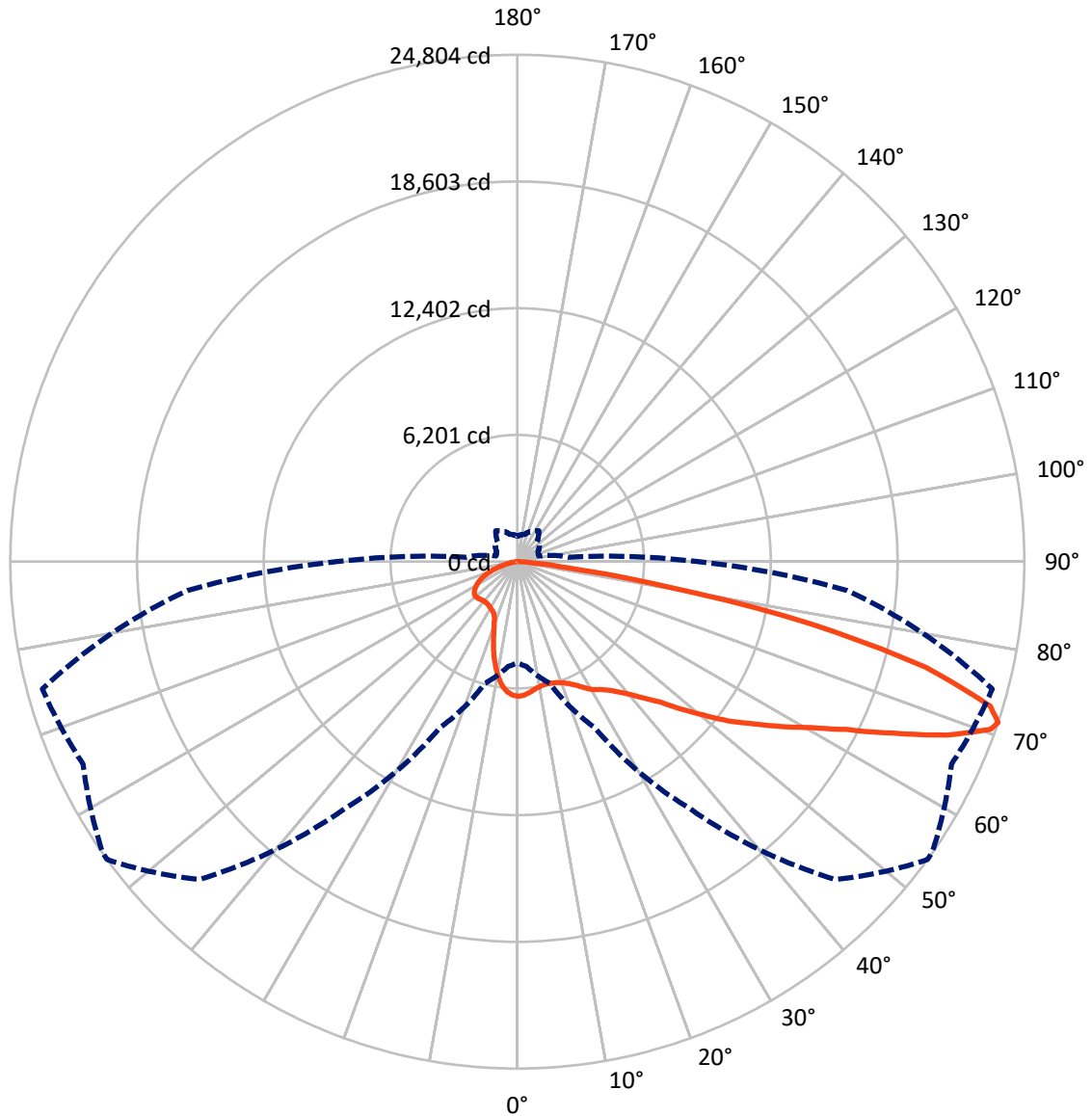
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6668.7	0.0	6668.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30268.3	0.0	30268.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	36937.0	0.0	36937.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.3	1.6
10°-20°	1550.7	4.2
20°-30°	2582.0	7.0
30°-40°	3817.9	10.3
40°-50°	5377.7	14.6
50°-60°	7201.0	19.5
60°-70°	9076.2	24.6
70°-80°	6199.0	16.8
80°-90°	545.2	1.5
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°	36937.0	100.0
0°-180°	36937.0	100.0



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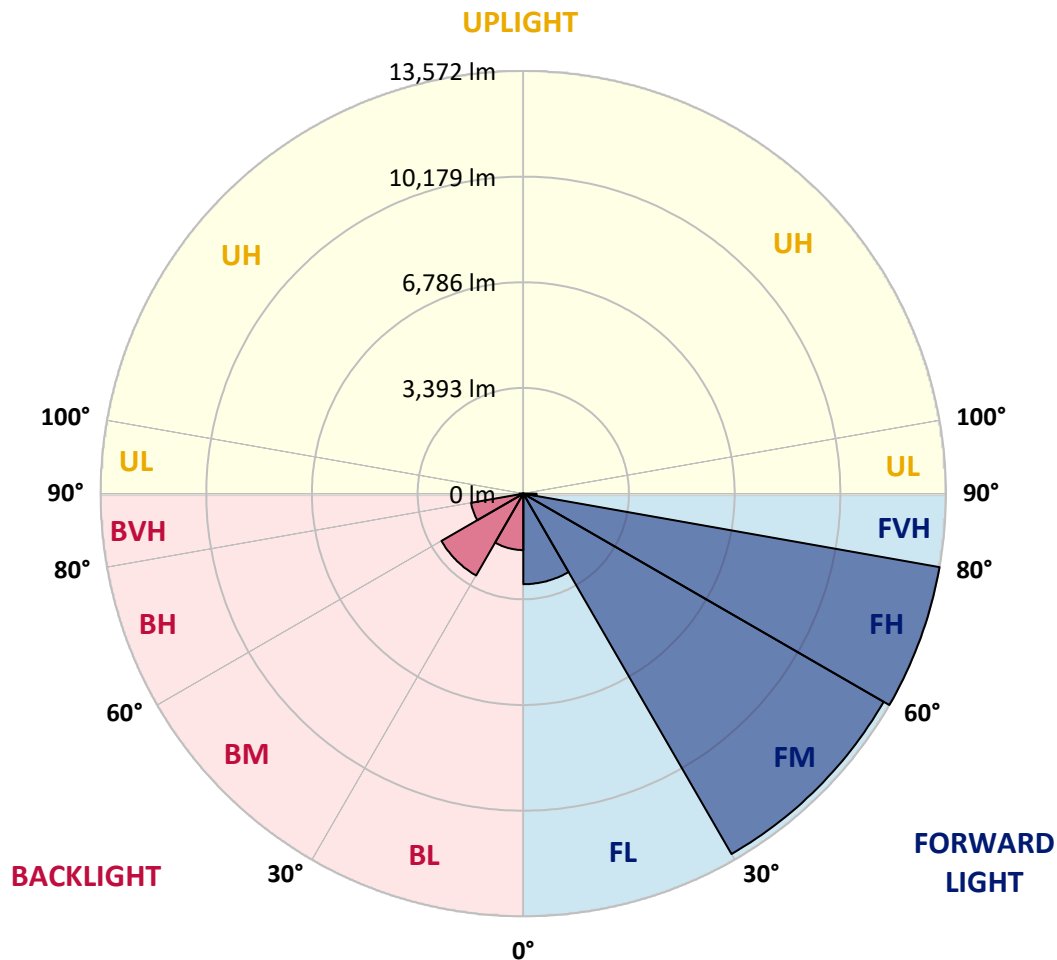
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2907.5	7.9			
FM	(30°-60°)	13362.5	36.2			
FH	(60°-80°)	13572.1	36.7			G5
FVH	(80°-90°)	426.1	1.2			G3/500
BL	(0°-30°)	1812.4	4.9	B3/2500		
BM	(30°-60°)	3034.1	8.2	B3/5000		
BH	(60°-80°)	1703.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	119.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1
2.5°	6366.6	6396.6	6404.6	6424.5	6466.4	6500.3	6534.2	6530.3	6578.1	6598.1	6616.0
5°	6083.3	6091.3	6121.2	6161.1	6235.0	6328.7	6420.5	6422.5	6540.2	6634.0	6679.9
7.5°	5875.8	5901.8	5921.7	5963.6	6041.4	6143.2	6288.8	6300.8	6510.3	6695.9	6793.6
10°	5740.2	5770.1	5792.0	5843.9	5921.7	6035.4	6193.1	6215.0	6488.4	6793.6	6965.2
12.5°	5616.5	5646.4	5666.3	5734.2	5835.9	5975.6	6153.2	6179.1	6496.3	6907.3	7152.8
15°	5692.3	5716.2	5708.2	5728.2	5796.0	5955.6	6169.1	6195.1	6526.3	7017.1	7338.3
17.5°	6029.5	6049.4	5983.6	5907.8	5875.8	5993.5	6219.0	6246.9	6586.1	7130.8	7527.8
20°	6526.3	6580.1	6436.5	6266.9	6113.3	6129.2	6322.8	6352.7	6669.9	7244.5	7721.4
22.5°	7172.7	7212.6	7037.0	6757.7	6474.4	6328.7	6478.4	6496.3	6795.6	7392.2	7932.9
25°	7932.9	7956.8	7713.4	7354.3	6945.3	6669.9	6691.9	6723.8	7003.1	7559.8	8120.4
27.5°	8671.1	8746.9	8465.6	8026.6	7487.9	7029.0	6985.2	7005.1	7228.6	7653.5	8250.1
30°	9547.0	9541.0	9243.7	8734.9	8044.6	7420.1	7262.5	7258.5	7350.3	7699.4	8343.9
32.5°	10245.3	10327.1	10035.8	9481.1	8681.1	7825.1	7454.0	7446.0	7444.0	7779.2	8483.5
35°	11039.4	11051.3	10784.0	10225.3	9369.4	8333.9	7721.4	7681.5	7635.6	7950.8	8673.1
37.5°	11749.7	11805.5	11560.1	10933.6	10045.8	8862.6	8088.5	8062.6	7922.9	8248.1	8976.4
40°	12304.3	12346.2	12198.6	11602.0	10712.2	9433.3	8555.4	8507.5	8337.9	8734.9	9381.4
42.5°	12485.9	12571.7	12629.5	12336.3	11478.3	10109.6	9130.0	9070.1	8940.4	9473.2	9848.3
45°	12499.9	12635.5	12940.8	12954.8	12248.5	10919.7	9800.4	9758.5	9748.5	10418.9	10504.7
47.5°	12394.1	12531.8	13044.5	13321.9	12934.8	11737.7	10768.0	10702.2	10708.2	11588.1	11240.9
50°	12138.7	12302.3	12924.8	13557.3	13471.5	12587.6	11789.6	11767.6	11891.3	12922.8	12005.0
52.5°	11657.9	11855.4	12801.1	13705.0	13870.6	13319.9	12950.8	12888.9	13202.2	14371.3	12841.0
55°	10327.1	10624.4	12348.2	13786.8	14249.6	14020.2	13996.2	14108.0	14523.0	15951.5	13760.8
57.5°	9632.8	9856.2	11364.6	13800.7	14728.5	14834.2	15217.3	15245.2	15971.5	17629.5	14800.3
60°	9253.7	9451.2	10825.9	13708.9	15396.9	15841.8	16466.3	16566.1	17386.1	19447.1	15877.7
62.5°	8922.5	9092.1	10502.7	13391.7	16151.1	17336.2	18084.4	18132.3	18992.2	21454.3	16941.1
65°	8142.4	8335.9	9852.2	13074.5	16801.5	19203.7	20231.2	20175.3	20702.1	23186.1	17607.5
67.5°	7090.9	7336.3	8637.2	11979.1	17122.7	21244.8	22649.4	22579.5	22390.0	24321.3	17799.1
70°	5748.1	5879.8	7082.9	10085.7	15839.8	22316.2	24558.8	24485.0	23435.5	24471.0	16893.3
71°	4946.1	5151.6	6167.1	8958.4	14772.4	21989.0	24804.2	24784.2	23437.5	24058.0	16210.9
72.5°	3860.7	3986.4	4884.2	6941.3	12555.7	20129.5	24197.6	24273.5	22928.7	22910.7	14804.3
75°	2442.1	2498.0	3064.6	4086.1	6889.4	14255.6	20656.2	20861.7	20358.9	18752.8	11009.5
77.5°	1418.6	1490.4	1835.6	2408.2	2976.8	7737.3	14780.4	15003.8	14145.9	10325.1	4507.1
80°	826.0	905.8	1209.1	1398.6	1366.7	2871.1	7525.9	7906.9	6125.2	2607.7	1264.9
82.5°	458.9	512.8	850.0	851.9	728.2	937.7	2368.3	2478.0	1747.8	1051.5	516.8
85°	333.2	377.1	548.7	496.8	349.2	403.0	824.0	863.9	706.3	442.9	167.6
87.5°	117.7	167.6	301.3	239.4	95.8	83.8	237.4	193.5	179.6	123.7	37.9
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°	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1
2.5°	6626.0	6630.0	6610.1	6574.1	6538.2	6492.3	6440.5	6400.6	6382.6	6380.6	6378.6
5°	6697.8	6707.8	6632.0	6520.3	6396.6	6244.9	6115.3	5967.6	5929.7	5869.8	5887.8
7.5°	6813.6	6807.6	6657.9	6420.5	6131.2	5810.0	5538.6	5381.0	5217.4	5171.5	5173.5
10°	6979.2	6941.3	6657.9	6217.0	5734.2	5257.3	4878.2	4638.8	4509.1	4401.4	4361.5
12.5°	7154.7	7059.0	6594.1	5931.7	5223.4	4638.8	4231.8	3908.6	3824.8	3737.0	3739.0
15°	7322.3	7162.7	6468.4	5530.7	4672.7	3978.4	3583.4	3389.8	3363.9	3373.9	3371.9
17.5°	7474.0	7236.5	6276.9	5083.7	4030.3	3411.8	3202.3	3216.2	3286.1	3336.0	3341.9
20°	7627.6	7280.4	5991.6	4485.2	3423.7	3068.6	3076.6	3186.3	3292.1	3359.9	3369.9
22.5°	7773.3	7300.4	5656.4	3906.6	2984.8	2923.0	3040.7	3158.4	3262.1	3328.0	3338.0
25°	7869.0	7254.5	5181.5	3302.0	2769.3	2871.1	2994.8	3094.5	3182.3	3250.2	3266.1
27.5°	7895.0	7106.9	4592.9	2813.2	2669.6	2821.2	2934.9	3008.7	3076.6	3140.4	3152.4
30°	7881.0	6889.4	3946.5	2525.9	2611.7	2763.3	2851.1	2905.0	2986.8	3036.7	3046.7
32.5°	7859.0	6636.0	3272.1	2372.3	2563.8	2709.5	2761.3	2809.2	2807.2	2787.3	2801.2
35°	7867.0	6332.7	2725.4	2280.5	2521.9	2669.6	2713.5	2653.6	2482.0	2474.0	2466.1
37.5°	7908.9	6033.5	2328.4	2216.7	2500.0	2663.6	2687.5	2412.2	2260.5	2190.7	2172.8
40°	8016.7	5684.3	2067.0	2168.8	2498.0	2709.5	2569.8	2290.5	1999.2	1863.5	1853.5
42.5°	8160.3	5341.1	1907.4	2138.8	2521.9	2779.3	2521.9	2118.9	1801.7	1721.8	1709.9
45°	8373.8	4948.1	1819.6	2124.9	2557.8	2805.2	2506.0	1993.2	1721.8	1658.0	1658.0
47.5°	8615.2	4573.0	1771.7	2114.9	2603.7	2787.3	2364.3	1953.3	1683.9	1691.9	1729.8
50°	8854.6	4247.8	1735.8	2093.0	2643.6	2777.3	2306.4	1951.3	1693.9	1795.7	1863.5
52.5°	9132.0	4018.3	1691.9	2057.0	2643.6	2713.5	2288.5	1991.2	1721.8	1751.8	1781.7
55°	9467.2	3946.5	1636.1	1979.2	2595.7	2553.8	2278.5	2049.1	1741.8	1672.0	1683.9
57.5°	9910.1	4062.2	1582.2	1881.5	2486.0	2388.2	2274.5	2065.0	1695.9	1638.0	1626.1
60°	10424.9	4291.7	1566.2	1781.7	2336.4	2246.6	2250.6	2019.1	1632.1	1572.2	1582.2
62.5°	10786.0	4429.3	1556.2	1705.9	2172.8	2091.0	2192.7	1963.3	1604.1	1552.3	1562.2
65°	10786.0	4261.7	1464.5	1590.2	1961.3	1903.4	2122.9	1893.4	1568.2	1508.4	1498.4
67.5°	10377.0	3772.9	1324.8	1416.6	1727.8	1689.9	2025.1	1809.6	1514.3	1468.5	1444.5
70°	9311.5	2861.1	1149.2	1213.1	1432.5	1466.5	1899.4	1695.9	1424.6	1368.7	1332.8
71°	8842.7	2492.0	1075.4	1109.3	1318.8	1368.7	1839.6	1648.0	1384.7	1304.9	1241.0
72.5°	7938.9	2098.9	963.7	977.6	1127.3	1217.1	1713.9	1556.2	1308.8	1195.1	1123.3
75°	6031.5	1532.3	776.1	768.1	834.0	965.7	1450.5	1386.7	1147.2	993.6	951.7
77.5°	2605.7	834.0	580.6	586.6	566.6	732.2	1141.2	1191.1	983.6	808.1	770.1
80°	790.1	480.8	397.0	405.0	379.1	490.8	804.1	933.7	790.1	628.5	576.6
82.5°	405.0	287.3	271.3	267.4	241.4	277.3	486.8	638.5	564.6	393.1	347.2
85°	175.6	153.6	133.7	129.7	113.7	99.8	173.6	319.2	299.3	219.5	209.5
87.5°	43.9	39.9	25.9	23.9	14.0	2.0	0.0	0.0	0.0	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)