

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: P459349

Luminaire Tested: **GALN-SA8A-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459349
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-SA8A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35203 lumens
Efficiency: N/A
Efficacy: 144.3 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

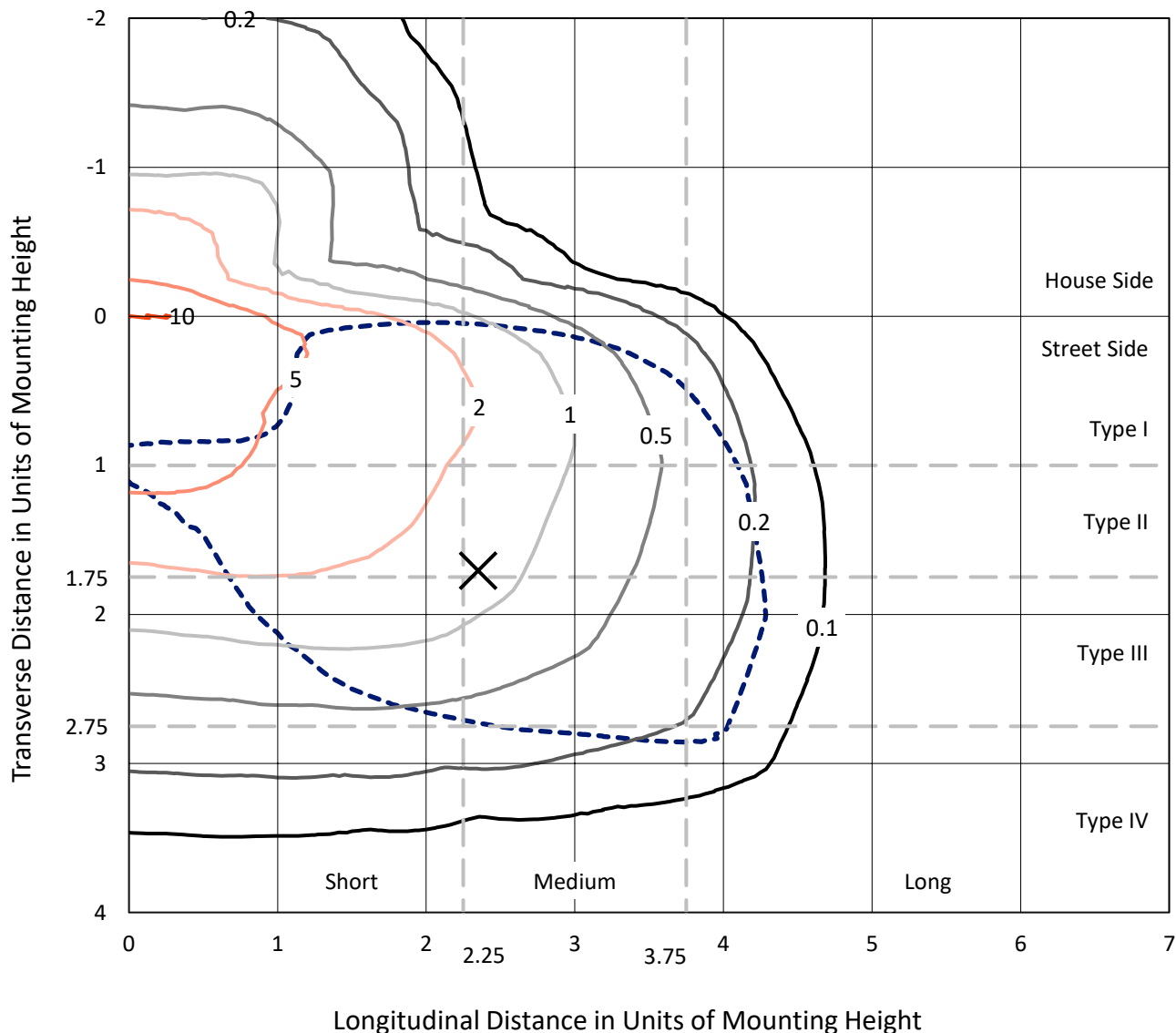
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

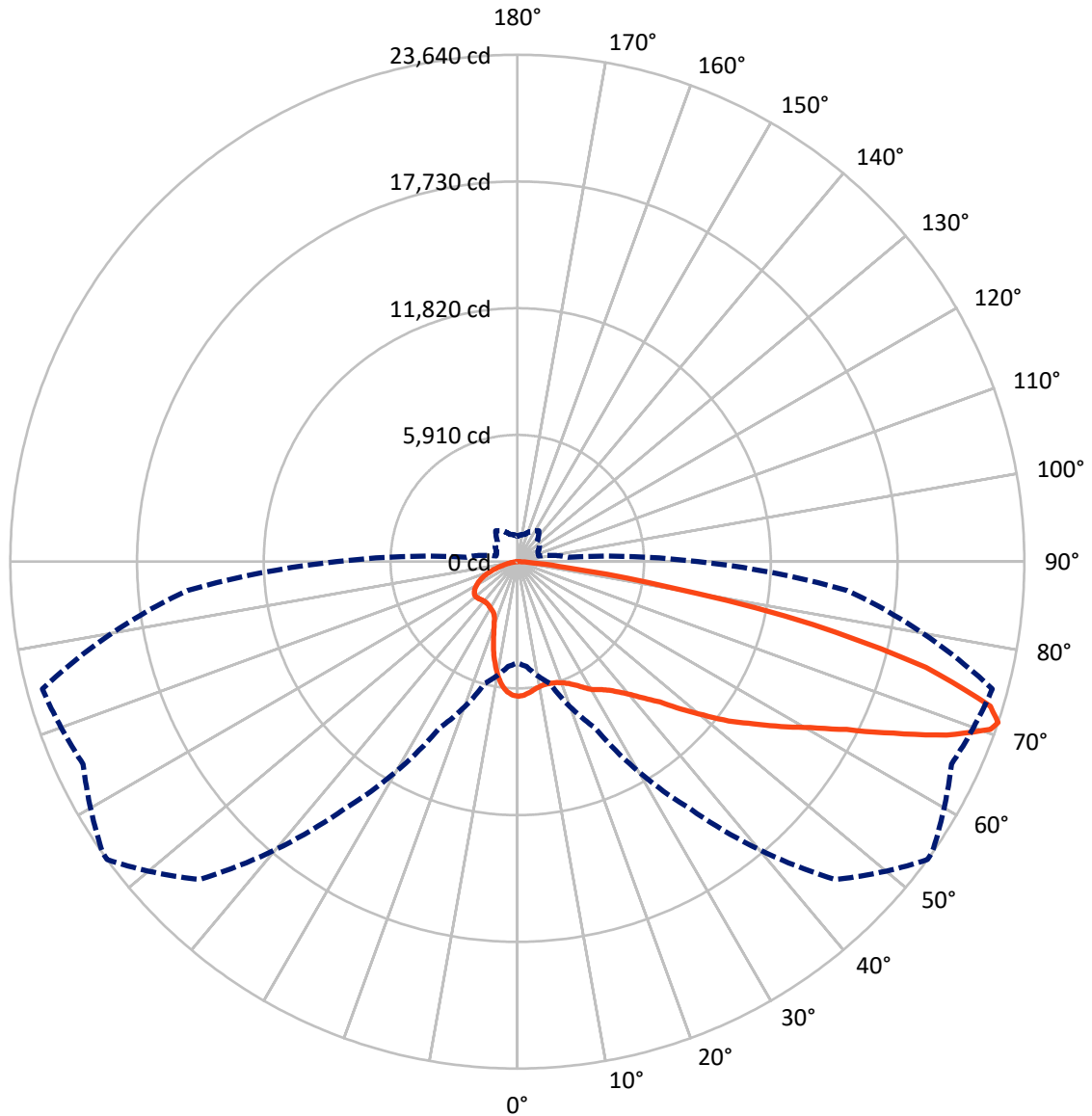
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	6355.7	0.0	6355.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28847.3	0.0	28847.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	35203.0	0.0	35203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.7	1.6
10°-20°	1477.9	4.2
20°-30°	2460.8	7.0
30°-40°	3638.7	10.3
40°-50°	5125.2	14.6
50°-60°	6862.9	19.5
60°-70°	8650.2	24.6
70°-80°	5908.0	16.8
80°-90°	519.6	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°	35203.0	100.0
0°-180°	35203.0	100.0

Coefficient of Utilization



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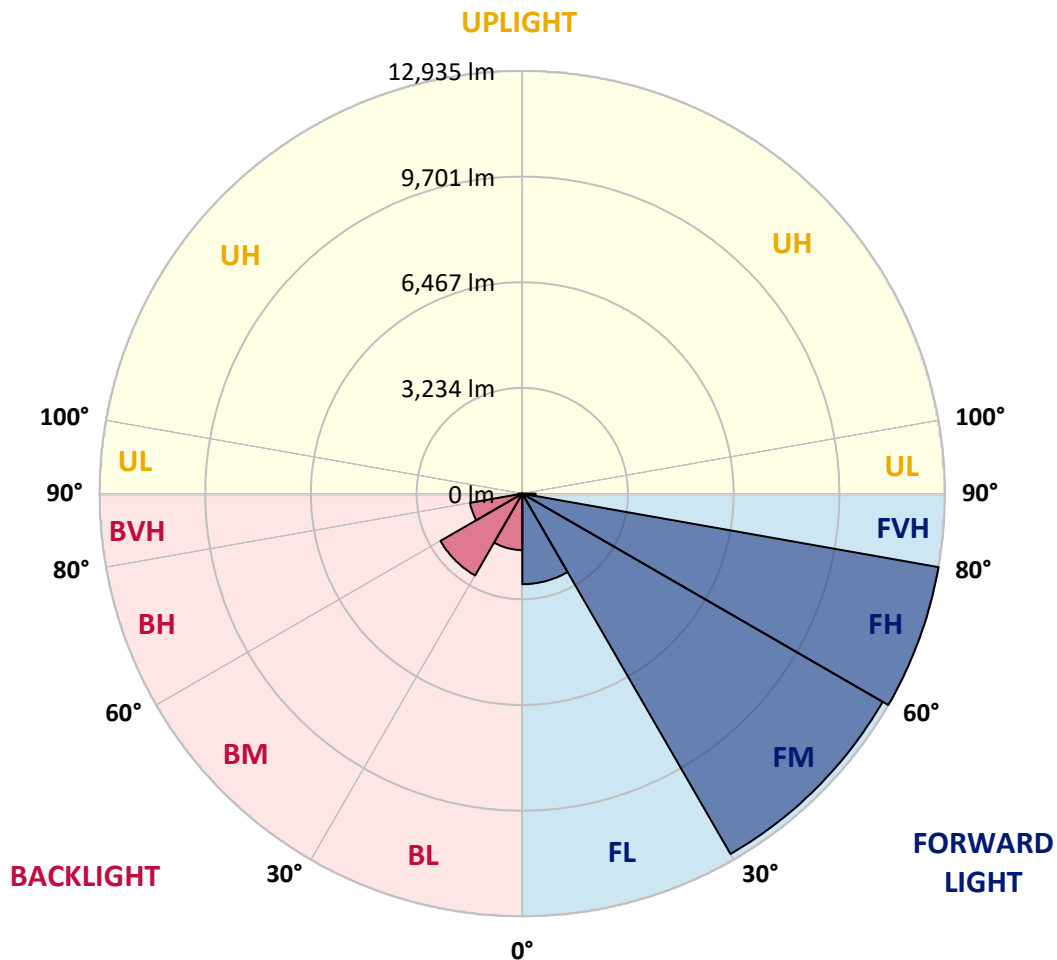
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2771.1	7.9			
FM	(30°-60°)	12735.2	36.2			
FH	(60°-80°)	12935.0	36.7			G5
FVH	(80°-90°)	406.1	1.2			G3/500
BL	(0°-30°)	1727.4	4.9	B3/2500		
BM	(30°-60°)	2891.6	8.2	B3/5000		
BH	(60°-80°)	1623.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	113.4	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°	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7
2.5°	6067.8	6096.3	6103.9	6122.9	6162.8	6195.2	6227.5	6223.7	6269.3	6288.3	6305.5
5°	5797.7	5805.4	5833.9	5871.9	5942.3	6031.6	6119.1	6121.0	6233.2	6322.6	6366.3
7.5°	5600.0	5624.7	5643.7	5683.7	5757.8	5854.8	5993.6	6005.0	6204.7	6381.5	6474.7
10°	5470.7	5499.2	5520.1	5569.6	5643.7	5752.1	5902.3	5923.2	6183.8	6474.7	6638.2
12.5°	5352.8	5381.3	5400.3	5465.0	5562.0	5695.1	5864.3	5889.0	6191.4	6583.1	6817.0
15°	5425.1	5447.9	5440.3	5459.3	5523.9	5676.1	5879.5	5904.2	6219.9	6687.7	6993.8
17.5°	5746.4	5765.4	5702.7	5630.4	5600.0	5712.2	5927.1	5953.7	6276.9	6796.0	7174.5
20°	6219.9	6271.2	6134.3	5972.7	5826.3	5841.5	6025.9	6054.5	6356.8	6904.4	7358.9
22.5°	6836.0	6874.0	6706.7	6440.5	6170.4	6031.6	6174.3	6191.4	6476.6	7045.1	7560.5
25°	7560.5	7583.3	7351.3	7009.0	6619.2	6356.8	6377.7	6408.1	6674.4	7204.9	7739.2
27.5°	8264.0	8336.3	8068.2	7649.8	7136.4	6699.1	6657.2	6676.3	6889.2	7294.2	7862.8
30°	9098.8	9093.1	8809.8	8324.9	7666.9	7071.8	6921.6	6917.7	7005.2	7338.0	7952.2
32.5°	9764.3	9842.3	9564.7	9036.0	8273.5	7457.8	7104.1	7096.5	7094.6	7414.0	8085.3
35°	10521.1	10532.5	10277.7	9745.3	8929.6	7942.7	7358.9	7320.9	7277.1	7577.6	8265.9
37.5°	11198.1	11251.3	11017.4	10420.4	9574.2	8446.6	7708.8	7684.1	7551.0	7860.9	8555.0
40°	11726.7	11766.6	11625.9	11057.4	10209.3	8990.4	8153.7	8108.1	7946.5	8324.9	8941.0
42.5°	11899.7	11981.5	12036.7	11757.1	10939.5	9635.0	8701.4	8644.3	8520.7	9028.4	9385.9
45°	11913.1	12042.4	12333.3	12346.6	11673.5	10407.0	9340.3	9300.4	9290.9	9929.8	10011.5
47.5°	11812.3	11943.5	12432.2	12696.5	12327.6	11186.7	10262.5	10199.8	10205.5	11044.1	10713.2
50°	11568.9	11724.8	12318.1	12920.9	12839.1	11996.7	11236.1	11215.2	11333.1	12316.2	11441.5
52.5°	11110.6	11298.9	12200.2	13061.6	13219.4	12694.6	12342.8	12283.9	12582.4	13696.7	12238.2
55°	9842.3	10125.6	11768.5	13139.5	13580.7	13362.0	13339.2	13445.7	13841.2	15202.7	13114.8
57.5°	9180.6	9393.5	10831.1	13152.8	14037.1	14137.8	14502.9	14529.6	15221.7	16801.9	14105.5
60°	8819.3	9007.5	10317.7	13065.4	14674.1	15098.1	15693.3	15788.4	16569.9	18534.2	15132.3
62.5°	8503.6	8665.2	10009.6	12763.0	15392.8	16522.3	17235.4	17281.1	18100.6	20447.1	16145.8
65°	7760.1	7944.6	9389.7	12460.7	16012.7	18302.2	19281.5	19228.2	19730.2	22097.6	16781.0
67.5°	6758.0	6991.9	8231.7	11416.8	16318.9	20247.4	21586.1	21519.6	21338.9	23179.6	16963.5
70°	5478.3	5603.8	6750.4	9612.2	15096.2	21268.6	23405.9	23335.5	22335.3	23322.2	16100.2
71°	4713.9	4909.7	5877.6	8537.8	14078.9	20956.7	23639.8	23620.7	22337.2	22928.6	15449.9
72.5°	3679.5	3799.2	4654.9	6615.4	11966.3	19184.5	23061.7	23134.0	21852.3	21835.2	14109.3
75°	2327.5	2380.7	2920.7	3894.3	6566.0	13586.4	19686.5	19882.3	19403.2	17872.4	10492.6
77.5°	1352.0	1420.4	1749.4	2295.1	2837.1	7374.1	14086.5	14299.5	13481.8	9840.4	4295.5
80°	787.2	863.3	1152.3	1333.0	1302.5	2736.3	7172.6	7535.7	5837.7	2485.3	1205.6
82.5°	437.4	488.7	810.0	812.0	694.1	893.7	2257.1	2361.7	1665.7	1002.1	492.5
85°	317.6	359.4	522.9	473.5	332.8	384.1	785.3	823.4	673.1	422.1	159.7
87.5°	112.2	159.7	287.1	228.2	91.3	79.9	226.3	184.4	171.1	117.9	36.1
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°	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7	6280.7
2.5°	6315.0	6318.8	6299.8	6265.5	6231.3	6187.6	6138.1	6100.1	6083.0	6081.1	6079.2
5°	6383.4	6392.9	6320.7	6214.2	6096.3	5951.8	5828.2	5687.5	5651.3	5594.3	5611.4
7.5°	6493.7	6488.0	6345.4	6119.1	5843.4	5537.2	5278.6	5128.4	4972.5	4928.8	4930.7
10°	6651.5	6615.4	6345.4	5925.2	5465.0	5010.5	4649.2	4421.0	4297.4	4194.8	4156.7
12.5°	6818.9	6727.6	6284.5	5653.2	4978.2	4421.0	4033.1	3725.1	3645.2	3561.6	3563.5
15°	6978.6	6826.5	6164.7	5271.0	4453.4	3791.6	3415.1	3230.7	3206.0	3215.5	3213.6
17.5°	7123.1	6896.8	5982.2	4845.1	3841.1	3251.6	3051.9	3065.3	3131.8	3179.3	3185.1
20°	7269.5	6938.7	5710.3	4274.6	3263.0	2924.5	2932.2	3036.7	3137.5	3202.2	3211.7
22.5°	7408.3	6957.7	5390.8	3723.2	2844.7	2785.7	2897.9	3010.1	3109.0	3171.7	3181.3
25°	7499.6	6913.9	4938.3	3147.0	2639.3	2736.3	2854.2	2949.3	3032.9	3097.6	3112.8
27.5°	7524.3	6773.2	4377.3	2681.1	2544.2	2688.8	2797.1	2867.5	2932.2	2993.0	3004.4
30°	7511.0	6566.0	3761.2	2407.3	2489.1	2633.6	2717.3	2768.6	2846.6	2894.1	2903.6
32.5°	7490.1	6324.5	3118.5	2260.9	2443.5	2582.3	2631.7	2677.3	2675.4	2656.4	2669.7
35°	7497.7	6035.4	2597.5	2173.4	2403.5	2544.2	2586.1	2529.0	2365.5	2357.9	2350.3
37.5°	7537.6	5750.2	2219.1	2112.6	2382.6	2538.5	2561.4	2298.9	2154.4	2087.9	2070.8
40°	7640.3	5417.4	1970.0	2067.0	2380.7	2582.3	2449.2	2183.0	1905.3	1776.0	1766.5
42.5°	7777.2	5090.4	1817.9	2038.4	2403.5	2648.8	2403.5	2019.4	1717.1	1641.0	1629.6
45°	7980.7	4715.8	1734.2	2025.1	2437.8	2673.5	2388.3	1899.6	1641.0	1580.2	1580.2
47.5°	8210.8	4358.3	1688.6	2015.6	2481.5	2656.4	2253.3	1861.6	1604.9	1612.5	1648.6
50°	8439.0	4048.3	1654.3	1994.7	2519.5	2646.9	2198.2	1859.7	1614.4	1711.4	1776.0
52.5°	8703.3	3829.7	1612.5	1960.5	2519.5	2586.1	2181.0	1897.7	1641.0	1669.5	1698.1
55°	9022.7	3761.2	1559.3	1886.3	2473.9	2434.0	2171.5	1952.9	1660.0	1593.5	1604.9
57.5°	9444.9	3871.5	1507.9	1793.1	2369.3	2276.1	2167.7	1968.1	1616.3	1561.2	1549.7
60°	9935.5	4090.2	1492.7	1698.1	2226.7	2141.1	2144.9	1924.3	1555.4	1498.4	1507.9
62.5°	10279.6	4221.4	1483.2	1625.8	2070.8	1992.8	2089.8	1871.1	1528.8	1479.4	1488.9
65°	10279.6	4061.7	1395.7	1515.5	1869.2	1814.1	2023.2	1804.5	1494.6	1437.6	1428.0
67.5°	9889.8	3595.8	1262.6	1350.1	1646.7	1610.6	1930.0	1724.7	1443.3	1399.5	1376.7
70°	8874.4	2726.8	1095.3	1156.1	1365.3	1397.6	1810.3	1616.3	1357.7	1304.4	1270.2
71°	8427.6	2375.0	1024.9	1057.2	1256.9	1304.4	1753.2	1570.7	1319.7	1243.6	1182.7
72.5°	7566.2	2000.4	918.4	931.7	1074.4	1159.9	1633.4	1483.2	1247.4	1139.0	1070.6
75°	5748.3	1460.4	739.7	732.1	794.8	920.3	1382.4	1321.6	1093.4	947.0	907.0
77.5°	2483.4	794.8	553.3	559.0	540.0	697.9	1087.7	1135.2	937.5	770.1	734.0
80°	753.0	458.3	378.4	386.0	361.3	467.8	766.3	889.9	753.0	599.0	549.5
82.5°	386.0	273.8	258.6	254.8	230.1	264.3	464.0	608.5	538.1	374.6	330.9
85°	167.3	146.4	127.4	123.6	108.4	95.1	165.4	304.2	285.2	209.2	199.7
87.5°	41.8	38.0	24.7	22.8	13.3	1.9	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)