

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: P456768

Luminaire Tested: **GALN-SA8A-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456768
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-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 37790 lumens
Efficiency: N/A
Efficacy: 154.9 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

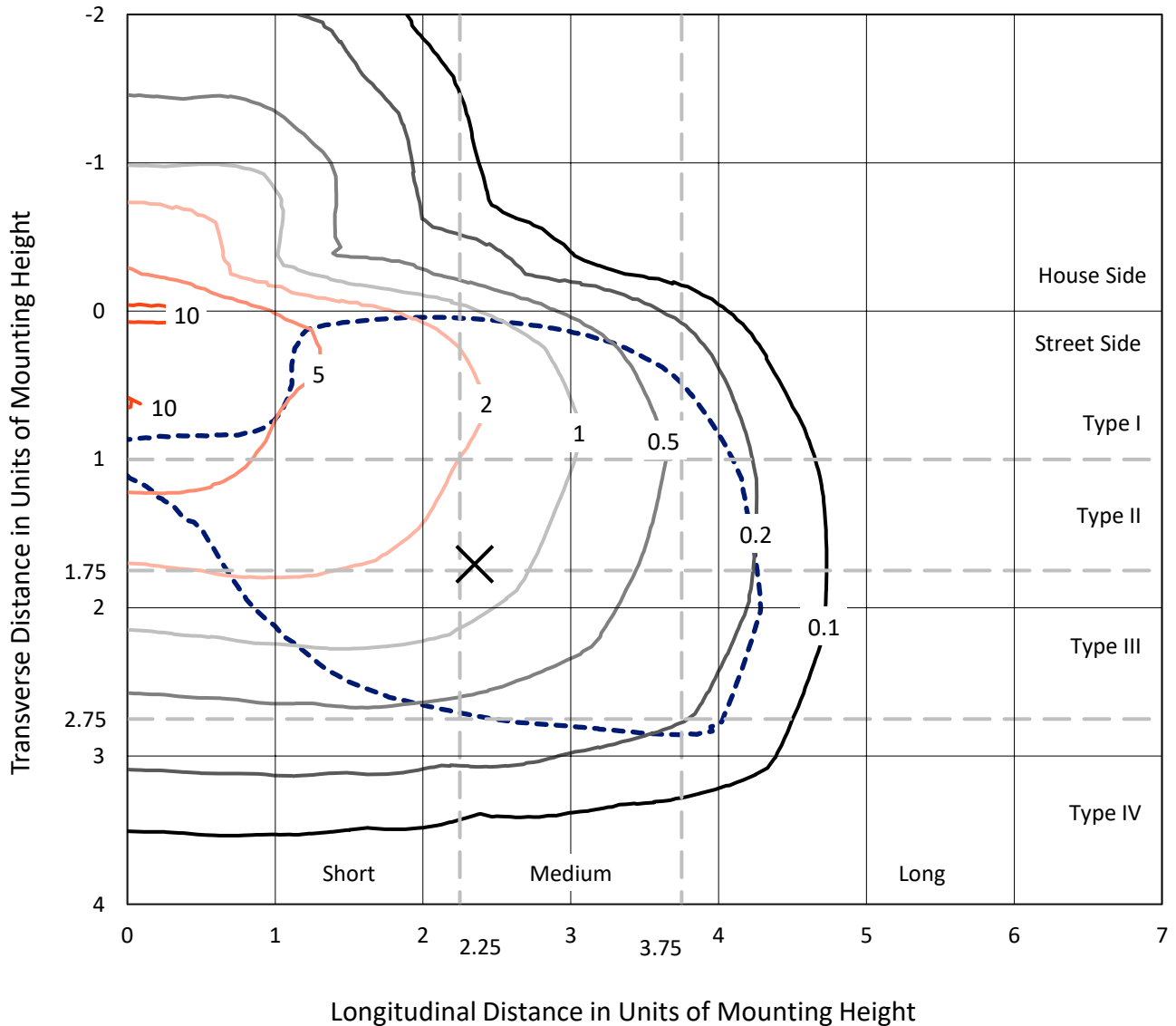
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

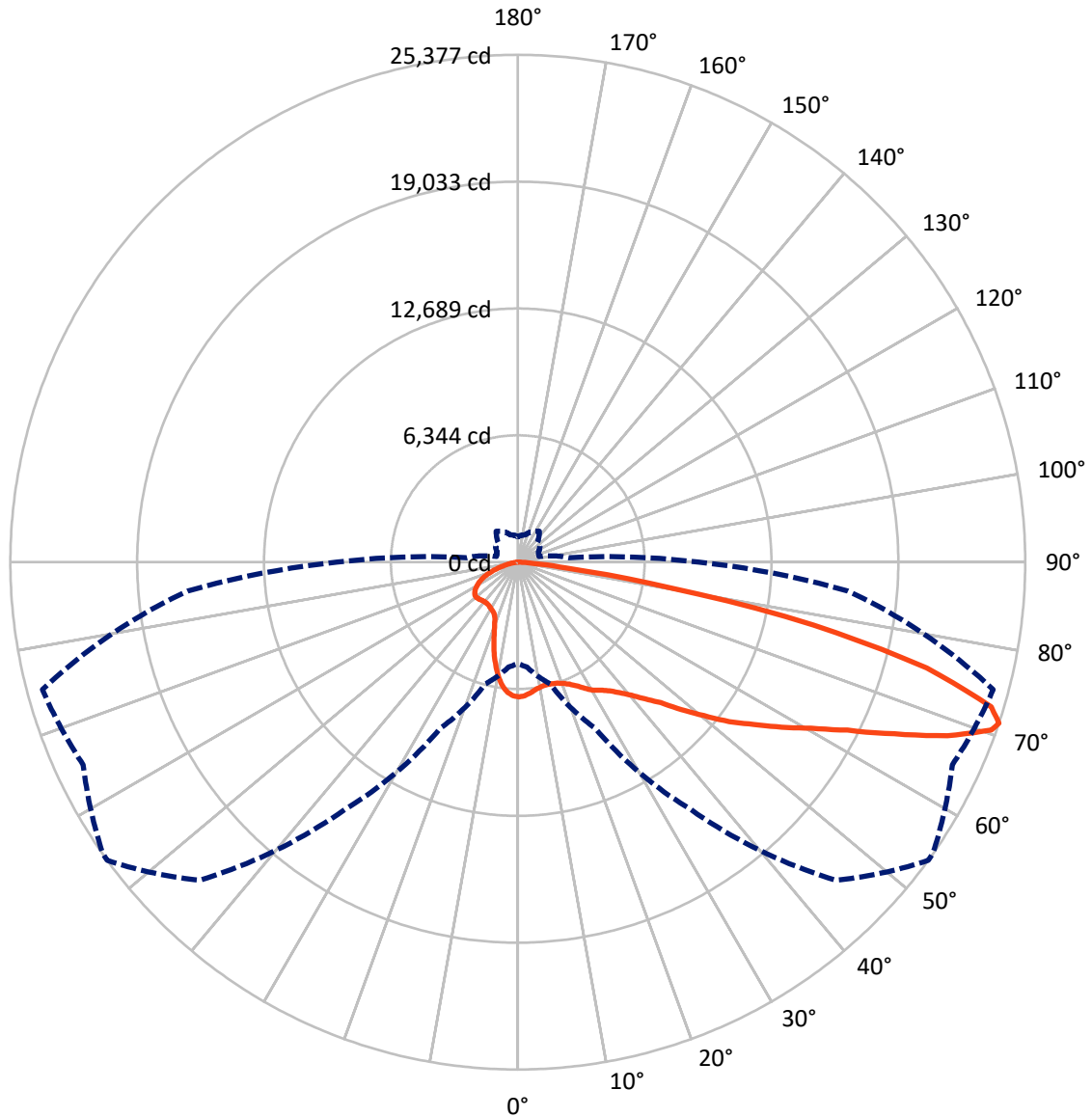
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	6822.7	0.0	6822.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30967.3	0.0	30967.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	37790.0	0.0	37790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.8	1.6
10°-20°	1586.5	4.2
20°-30°	2641.6	7.0
30°-40°	3906.1	10.3
40°-50°	5501.9	14.6
50°-60°	7367.2	19.5
60°-70°	9285.8	24.6
70°-80°	6342.2	16.8
80°-90°	557.8	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°	37790.0	100.0
0°-180°	37790.0	100.0

Coefficient of Utilization



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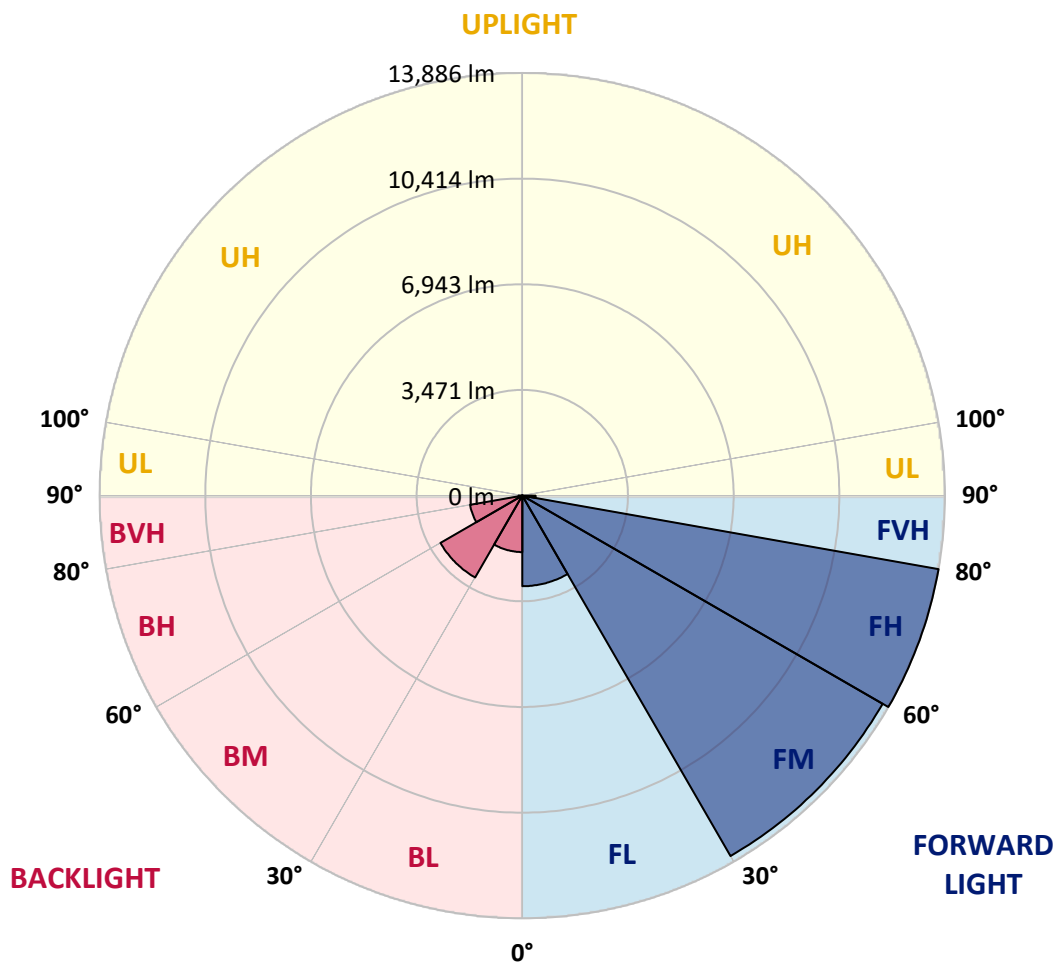
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2974.7	7.9			
FM	(30°-60°)	13671.1	36.2			
FH	(60°-80°)	13885.5	36.7			G5
FVH	(80°-90°)	436.0	1.2			G3/500
BL	(0°-30°)	1854.3	4.9	B3/2500		
BM	(30°-60°)	3104.1	8.2	B3/5000		
BH	(60°-80°)	1742.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	121.8	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°	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3
2.5°	6513.7	6544.3	6552.5	6572.9	6615.7	6650.4	6685.1	6681.1	6730.0	6750.5	6768.8
5°	6223.8	6232.0	6262.6	6303.4	6379.0	6474.9	6568.8	6570.8	6691.3	6787.2	6834.2
7.5°	6011.5	6038.1	6058.5	6101.3	6180.9	6285.1	6434.1	6446.3	6660.6	6850.5	6950.5
10°	5872.7	5903.3	5925.8	5978.9	6058.5	6174.8	6336.1	6358.5	6638.2	6950.5	7126.1
12.5°	5746.2	5776.8	5797.2	5866.6	5970.7	6113.6	6295.3	6321.8	6646.4	7066.9	7317.9
15°	5823.7	5848.2	5840.1	5860.5	5929.9	6093.2	6311.6	6338.1	6677.0	7179.1	7507.8
17.5°	6168.7	6189.1	6121.8	6044.2	6011.5	6132.0	6362.6	6391.2	6738.2	7295.5	7701.7
20°	6677.0	6732.1	6585.1	6411.6	6254.4	6270.8	6468.8	6499.4	6823.9	7411.8	7899.7
22.5°	7338.3	7379.2	7199.5	6913.8	6623.9	6474.9	6628.0	6646.4	6952.5	7562.9	8116.1
25°	8116.1	8140.6	7891.5	7524.1	7105.6	6823.9	6846.4	6879.1	7164.8	7734.3	8307.9
27.5°	8871.3	8948.9	8661.1	8212.0	7660.9	7191.4	7146.5	7166.9	7395.5	7830.3	8440.6
30°	9767.4	9761.3	9457.2	8936.7	8230.4	7591.5	7430.2	7426.1	7520.0	7877.2	8536.6
32.5°	10481.9	10565.6	10267.6	9700.1	8881.5	8005.8	7626.2	7618.0	7616.0	7958.9	8679.5
35°	11294.3	11306.6	11033.0	10461.5	9585.8	8526.4	7899.7	7858.9	7811.9	8134.4	8873.4
37.5°	12021.0	12078.2	11827.1	11186.1	10277.8	9067.3	8275.3	8248.7	8105.9	8438.6	9183.6
40°	12588.5	12631.3	12480.3	11870.0	10959.5	9651.1	8752.9	8704.0	8530.4	8936.7	9598.0
42.5°	12774.2	12862.0	12921.2	12621.1	11743.4	10343.1	9340.8	9279.6	9146.9	9691.9	10075.7
45°	12788.5	12927.3	13239.6	13253.9	12531.3	11171.8	10026.7	9983.8	9973.6	10659.5	10747.3
47.5°	12680.3	12821.2	13345.8	13629.5	13233.5	12008.8	11016.7	10949.3	10955.5	11855.7	11500.5
50°	12419.1	12586.4	13223.3	13870.4	13782.6	12878.3	12061.8	12039.4	12165.9	13221.3	12282.3
52.5°	11927.1	12129.2	13096.8	14021.4	14190.9	13627.5	13249.8	13186.6	13507.0	14703.2	13137.6
55°	10565.6	10869.7	12633.4	14105.1	14578.7	14344.0	14319.5	14433.8	14858.4	16319.9	14078.6
57.5°	9855.2	10083.8	11627.0	14119.4	15068.6	15176.8	15568.7	15597.3	16340.3	18036.6	15142.1
60°	9467.4	9669.5	11075.9	14025.5	15752.4	16207.6	16846.6	16948.6	17787.6	19896.2	16244.4
62.5°	9128.5	9302.0	10745.2	13701.0	16524.0	17736.5	18502.0	18551.0	19430.8	21949.7	17332.4
65°	8330.4	8528.4	10079.8	13376.4	17189.5	19647.2	20698.4	20641.3	21180.2	23721.5	18014.2
67.5°	7254.7	7505.7	8836.6	12255.8	17518.1	21735.4	23172.4	23101.0	22907.1	24883.0	18210.1
70°	5880.9	6015.6	7246.5	10318.6	16205.6	22831.5	25125.9	25050.4	23976.7	25036.1	17283.4
71°	5060.3	5270.5	6309.5	9165.3	15113.5	22496.8	25377.0	25356.6	23978.7	24613.6	16585.3
72.5°	3949.8	4078.4	4997.0	7101.6	12845.7	20594.3	24756.5	24834.0	23458.2	23439.8	15146.2
75°	2498.5	2555.7	3135.4	4180.5	7048.5	14584.8	21133.2	21343.5	20829.1	19185.8	11263.7
77.5°	1451.3	1524.8	1878.0	2463.8	3045.6	7916.0	15121.7	15350.3	14472.6	10563.5	4611.2
80°	845.1	926.7	1237.0	1430.9	1398.3	2937.4	7699.6	8089.5	6266.7	2667.9	1294.2
82.5°	469.5	524.6	869.6	871.6	745.1	959.4	2423.0	2535.3	1788.1	1075.7	528.7
85°	340.9	385.8	561.3	508.3	357.2	412.3	843.0	883.9	722.6	453.2	171.5
87.5°	120.4	171.5	308.2	245.0	98.0	85.7	242.9	198.0	183.7	126.6	38.8
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°	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3	6742.3
2.5°	6779.0	6783.1	6762.7	6726.0	6689.2	6642.3	6589.2	6548.4	6530.0	6528.0	6525.9
5°	6852.5	6862.7	6785.2	6670.9	6544.3	6389.2	6256.5	6105.4	6066.6	6005.4	6023.8
7.5°	6970.9	6964.8	6811.7	6568.8	6272.8	5944.2	5666.5	5505.3	5337.9	5291.0	5293.0
10°	7140.3	7101.6	6811.7	6360.6	5866.6	5378.7	4990.9	4745.9	4613.3	4503.0	4462.2
12.5°	7320.0	7222.0	6746.4	6068.7	5344.0	4745.9	4329.5	3998.8	3913.1	3823.3	3825.3
15°	7491.4	7328.1	6617.8	5658.4	4780.6	4070.3	3666.1	3468.1	3441.6	3451.8	3449.7
17.5°	7646.6	7403.7	6421.8	5201.1	4123.4	3490.6	3276.2	3290.5	3362.0	3413.0	3419.1
20°	7803.8	7448.6	6129.9	4588.8	3502.8	3139.5	3147.6	3259.9	3368.1	3437.5	3447.7
22.5°	7952.8	7469.0	5787.0	3996.8	3053.7	2990.5	3110.9	3231.3	3337.5	3404.8	3415.0
25°	8050.7	7422.0	5301.2	3378.3	2833.3	2937.4	3063.9	3166.0	3255.8	3325.2	3341.5
27.5°	8077.3	7271.0	4699.0	2878.2	2731.2	2886.3	3002.7	3078.2	3147.6	3212.9	3225.2
30°	8063.0	7048.5	4037.6	2584.2	2672.0	2827.2	2917.0	2972.1	3055.8	3106.8	3117.0
32.5°	8040.5	6789.2	3347.7	2427.1	2623.0	2772.0	2825.1	2874.1	2872.1	2851.6	2865.9
35°	8048.7	6479.0	2788.4	2333.2	2580.2	2731.2	2776.1	2714.9	2539.3	2531.2	2523.0
37.5°	8091.6	6172.8	2382.2	2267.8	2557.7	2725.1	2749.6	2467.9	2312.8	2241.3	2222.9
40°	8201.8	5815.6	2114.7	2218.9	2555.7	2772.0	2629.1	2343.4	2045.3	1906.5	1896.3
42.5°	8348.8	5464.5	1951.4	2188.2	2580.2	2843.5	2580.2	2167.8	1843.3	1761.6	1749.4
45°	8567.2	5062.3	1861.6	2173.9	2616.9	2870.0	2563.8	2039.2	1761.6	1696.3	1696.3
47.5°	8814.2	4678.6	1812.6	2163.7	2663.8	2851.6	2418.9	1998.4	1722.8	1731.0	1769.8
50°	9059.1	4345.9	1775.9	2141.3	2704.7	2841.4	2359.7	1996.4	1733.0	1837.1	1906.5
52.5°	9342.9	4111.1	1731.0	2104.5	2704.7	2776.1	2341.3	2037.2	1761.6	1792.2	1822.8
55°	9685.8	4037.6	1673.8	2024.9	2655.7	2612.8	2331.1	2096.4	1782.0	1710.6	1722.8
57.5°	10139.0	4156.0	1618.7	1924.9	2543.4	2443.4	2327.0	2112.7	1735.1	1675.9	1663.6
60°	10665.6	4390.8	1602.4	1822.8	2390.3	2298.5	2302.5	2065.8	1669.8	1608.5	1618.7
62.5°	11035.1	4531.6	1592.2	1745.3	2222.9	2139.2	2243.3	2008.6	1641.2	1588.1	1598.3
65°	11035.1	4360.1	1498.3	1626.9	2006.6	1947.4	2171.9	1937.2	1604.4	1543.2	1533.0
67.5°	10616.6	3860.0	1355.4	1449.3	1767.7	1729.0	2071.9	1851.4	1549.3	1502.4	1477.9
70°	9526.6	2927.2	1175.8	1241.1	1465.6	1500.3	1943.3	1735.1	1457.5	1400.3	1363.6
71°	9046.9	2549.5	1100.2	1134.9	1349.3	1400.3	1882.0	1686.1	1416.6	1335.0	1269.7
72.5°	8122.2	2147.4	985.9	1000.2	1153.3	1245.2	1753.4	1592.2	1339.1	1222.7	1149.2
75°	6170.7	1567.7	794.1	785.9	853.2	988.0	1484.0	1418.7	1173.7	1016.5	973.7
77.5°	2665.9	853.2	594.0	600.1	579.7	749.1	1167.6	1218.6	1006.3	826.7	787.9
80°	808.3	491.9	406.2	414.4	387.8	502.2	822.6	955.3	808.3	643.0	589.9
82.5°	414.4	293.9	277.6	273.5	247.0	283.7	498.1	653.2	577.7	402.1	355.2
85°	179.6	157.2	136.8	132.7	116.4	102.1	177.6	326.6	306.2	224.5	214.3
87.5°	44.9	40.8	26.5	24.5	14.3	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)