

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: P457812

Luminaire Tested: **GALN-SA9A-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457812
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-SA9A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 33713 lumens
Efficiency: N/A
Efficacy: 123.0 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): 274
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

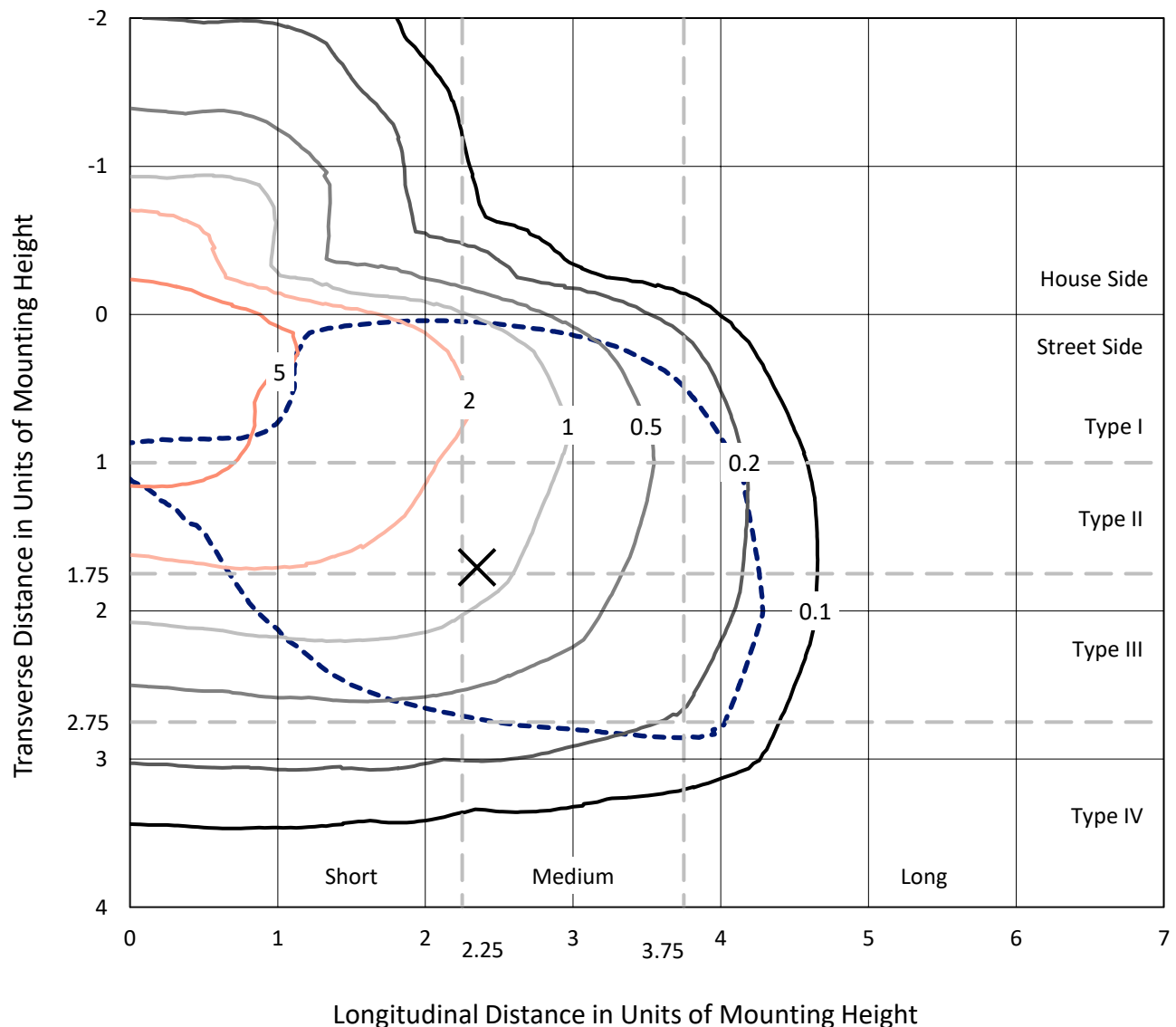


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

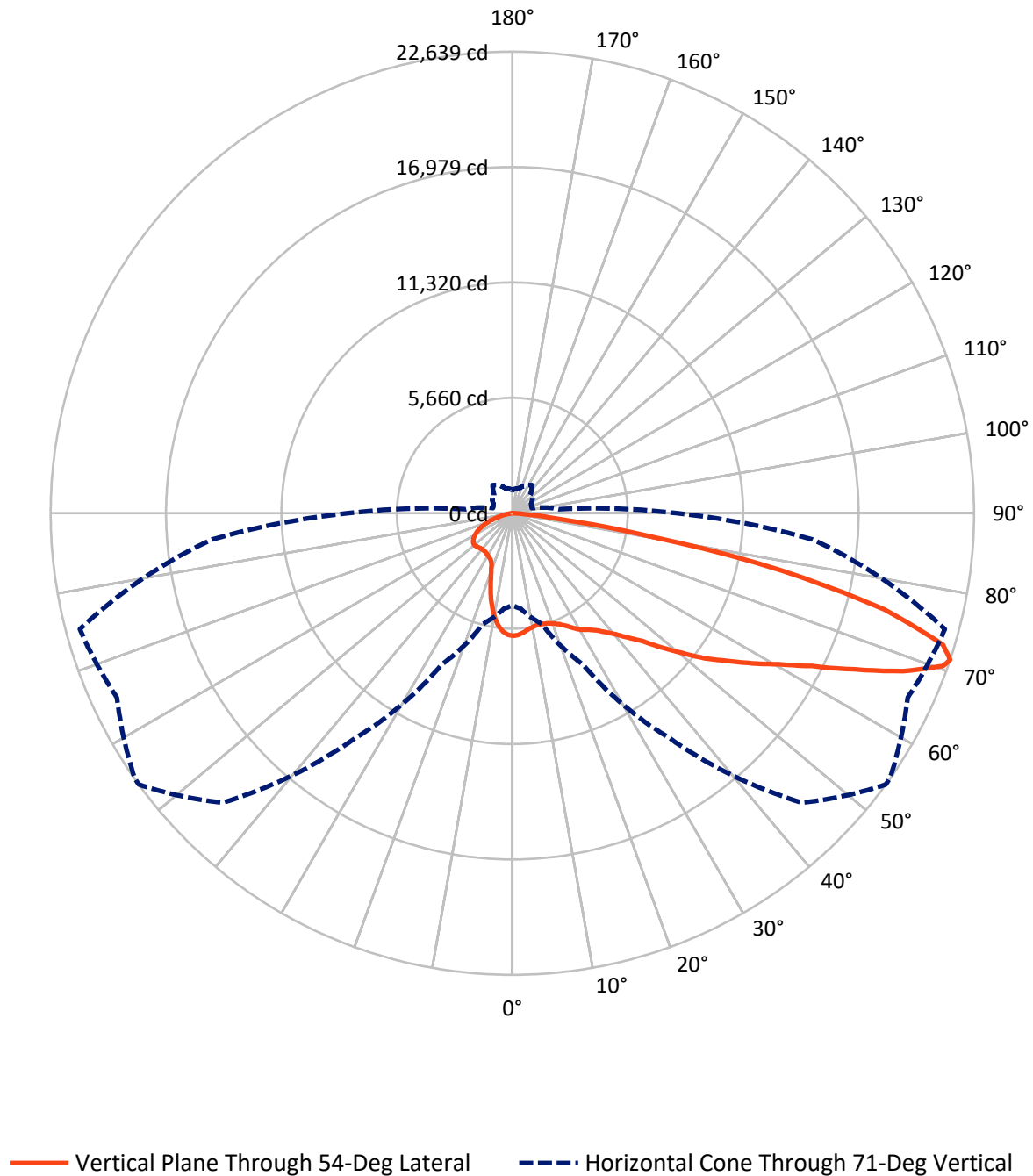


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6086.7	0.0	6086.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27626.3	0.0	27626.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	33713.0	0.0	33713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.0	1.6
10°-20°	1415.4	4.2
20°-30°	2356.6	7.0
30°-40°	3484.7	10.3
40°-50°	4908.3	14.6
50°-60°	6572.4	19.5
60°-70°	8284.0	24.6
70°-80°	5658.0	16.8
80°-90°	497.6	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°	33713.0	100.0
0°-180°	33713.0	100.0

Coefficient of Utilization



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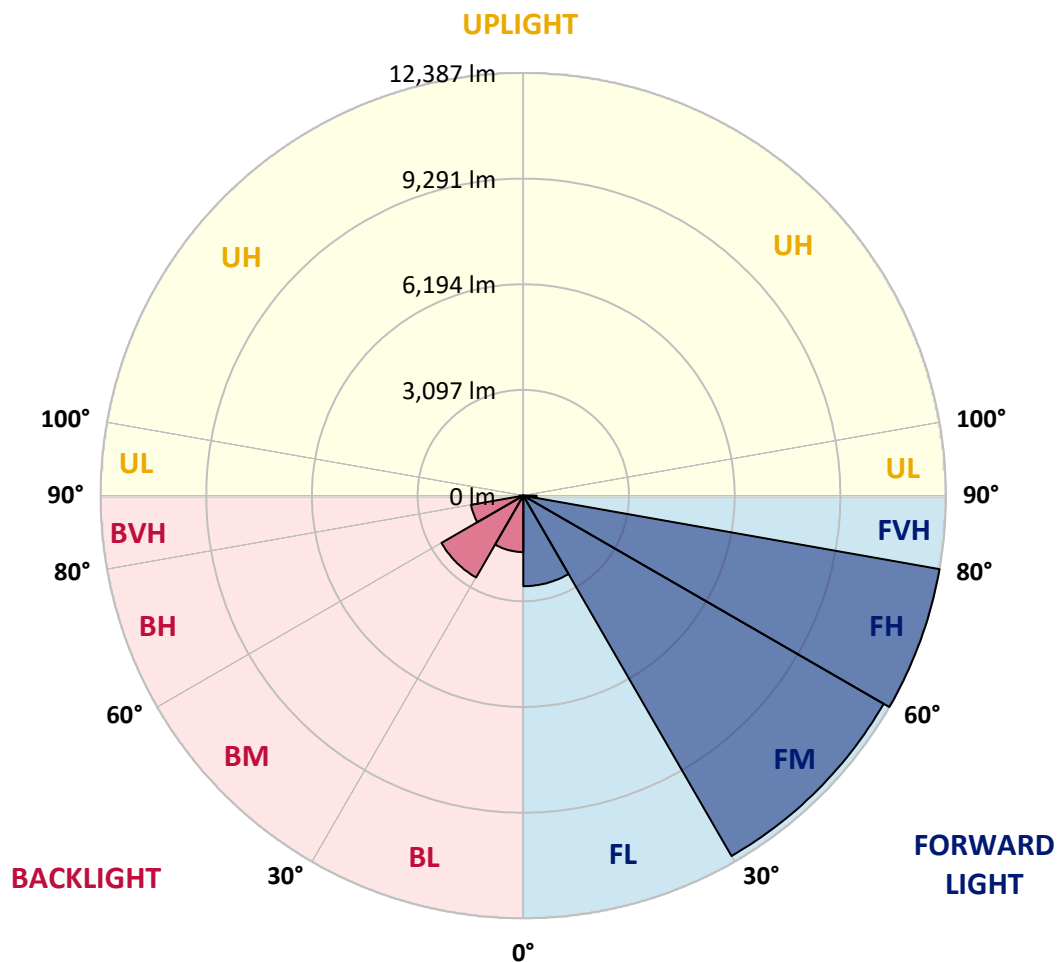
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2653.8	7.9			
FM	(30°-60°)	12196.1	36.2			
FH	(60°-80°)	12387.5	36.7			G5
FVH	(80°-90°)	388.9	1.2			G3/500
BL	(0°-30°)	1654.2	4.9	B3/2500		
BM	(30°-60°)	2769.3	8.2	B3/5000		
BH	(60°-80°)	1554.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	108.6	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°	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9
2.5°	5810.9	5838.3	5845.5	5863.8	5902.0	5933.0	5963.9	5960.3	6004.0	6022.2	6038.6
5°	5552.4	5559.6	5587.0	5623.4	5690.8	5776.3	5860.1	5861.9	5969.4	6055.0	6096.8
7.5°	5363.0	5386.6	5404.8	5443.1	5514.1	5607.0	5739.9	5750.8	5942.1	6111.4	6200.6
10°	5239.1	5266.5	5286.5	5333.8	5404.8	5508.6	5652.5	5672.5	5922.0	6200.6	6357.3
12.5°	5126.2	5153.5	5171.8	5233.7	5326.5	5454.0	5616.1	5639.8	5929.3	6304.4	6528.4
15°	5195.4	5217.3	5210.0	5228.2	5290.1	5435.8	5630.7	5654.3	5956.6	6404.6	6697.8
17.5°	5503.2	5521.4	5461.3	5392.1	5363.0	5470.4	5676.2	5701.7	6011.3	6508.4	6870.8
20°	5956.6	6005.8	5874.7	5719.9	5579.7	5594.2	5770.9	5798.2	6087.7	6612.2	7047.4
22.5°	6546.6	6583.1	6422.8	6167.9	5909.3	5776.3	5912.9	5929.3	6202.5	6747.0	7240.5
25°	7240.5	7262.3	7040.1	6712.4	6339.0	6087.7	6107.8	6136.9	6391.9	6899.9	7411.6
27.5°	7914.2	7983.4	7726.7	7326.0	6834.4	6415.5	6375.5	6393.7	6597.6	6985.5	7530.0
30°	8713.7	8708.2	8436.9	7972.5	7342.4	6772.5	6628.6	6624.9	6708.7	7027.4	7615.6
32.5°	9351.0	9425.7	9159.8	8653.6	7923.3	7142.1	6803.4	6796.1	6794.3	7100.2	7743.1
35°	10075.8	10086.7	9842.7	9332.8	8551.6	7606.5	7047.4	7011.0	6969.1	7256.8	7916.1
37.5°	10724.1	10775.1	10551.1	9979.3	9168.9	8089.1	7382.5	7358.8	7231.4	7528.2	8192.9
40°	11230.4	11268.6	11133.8	10589.4	9777.2	8609.9	7808.6	7764.9	7610.1	7972.5	8562.5
42.5°	11396.1	11474.4	11527.2	11259.5	10476.4	9227.2	8333.1	8278.5	8160.1	8646.3	8988.7
45°	11408.8	11532.7	11811.3	11824.0	11179.4	9966.6	8945.0	8906.7	8897.6	9509.5	9587.8
47.5°	11312.3	11438.0	11906.0	12159.1	11805.8	10713.2	9828.2	9768.1	9773.5	10576.6	10259.7
50°	11079.2	11228.5	11796.7	12374.0	12295.7	11488.9	10760.5	10740.5	10853.4	11794.9	10957.2
52.5°	10640.3	10820.6	11683.8	12508.7	12659.9	12157.3	11820.4	11763.9	12049.8	13117.0	11720.2
55°	9425.7	9697.0	11270.4	12583.4	13005.9	12796.5	12774.6	12876.6	13255.4	14559.2	12559.7
57.5°	8792.0	8995.9	10372.6	12596.1	13442.9	13539.4	13889.1	13914.6	14577.4	16090.7	13508.5
60°	8446.0	8626.3	9881.0	12512.4	14053.0	14459.1	15029.1	15120.1	15868.6	17749.7	14491.8
62.5°	8143.7	8298.5	9586.0	12222.8	14741.3	15823.0	16505.9	16549.6	17334.5	19581.7	15462.5
65°	7431.7	7608.3	8992.3	11933.3	15335.0	17527.5	18465.4	18414.4	18895.1	21162.3	16070.7
67.5°	6472.0	6696.0	7883.3	10933.5	15628.2	19390.4	20672.5	20608.7	20435.7	22198.5	16245.5
70°	5246.4	5366.6	6464.7	9205.4	14457.2	20368.3	22415.2	22347.8	21389.9	22335.1	15418.8
71°	4514.4	4701.9	5628.8	8176.5	13483.0	20069.7	22639.2	22621.0	21391.8	21958.1	14796.0
72.5°	3523.7	3638.4	4457.9	6335.4	11459.8	18372.5	22085.6	22154.8	20927.4	20911.0	13512.1
75°	2229.0	2279.9	2797.1	3729.5	6288.1	13011.3	18853.2	19040.8	18581.9	17116.0	10048.5
77.5°	1294.8	1360.3	1675.4	2198.0	2717.0	7062.0	13490.3	13694.2	12911.2	9423.9	4113.7
80°	753.9	826.8	1103.6	1276.5	1247.4	2620.5	6869.0	7216.8	5590.6	2380.1	1154.5
82.5°	418.8	468.0	775.8	777.6	664.7	855.9	2161.6	2261.7	1595.2	959.7	471.6
85°	304.1	344.2	500.8	453.4	318.7	367.9	752.1	788.5	644.6	404.3	153.0
87.5°	107.4	153.0	275.0	218.5	87.4	76.5	216.7	176.6	163.9	112.9	34.6
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°	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9	6014.9
2.5°	6047.7	6051.3	6033.1	6000.3	5967.6	5925.7	5878.3	5841.9	5825.5	5823.7	5821.9
5°	6113.2	6122.3	6053.1	5951.2	5838.3	5699.9	5581.5	5446.7	5412.1	5357.5	5373.9
7.5°	6218.9	6213.4	6076.8	5860.1	5596.1	5302.9	5055.2	4911.3	4762.0	4720.1	4722.0
10°	6370.0	6335.4	6076.8	5674.4	5233.7	4798.4	4452.4	4233.9	4115.6	4017.2	3980.8
12.5°	6530.3	6442.8	6018.5	5414.0	4767.5	4233.9	3862.4	3567.4	3490.9	3410.8	3412.6
15°	6683.2	6537.5	5903.8	5047.9	4264.9	3631.2	3270.6	3093.9	3070.3	3079.4	3077.6
17.5°	6821.6	6604.9	5729.0	4640.0	3678.5	3114.0	2922.8	2935.5	2999.3	3044.8	3050.2
20°	6961.8	6645.0	5468.6	4093.7	3124.9	2800.8	2808.0	2908.2	3004.7	3066.6	3075.7
22.5°	7094.8	6663.2	5162.7	3565.6	2724.3	2667.8	2775.3	2882.7	2977.4	3037.5	3046.6
25°	7182.2	6621.3	4729.2	3013.8	2527.6	2620.5	2733.4	2824.4	2904.6	2966.5	2981.0
27.5°	7205.9	6486.5	4192.0	2567.7	2436.6	2575.0	2678.8	2746.1	2808.0	2866.3	2877.2
30°	7193.1	6288.1	3602.0	2305.4	2383.7	2522.1	2602.3	2651.4	2726.1	2771.6	2780.7
32.5°	7173.1	6056.8	2986.5	2165.2	2340.0	2473.0	2520.3	2564.0	2562.2	2544.0	2556.7
35°	7180.4	5780.0	2487.5	2081.4	2301.8	2436.6	2476.6	2422.0	2265.4	2258.1	2250.8
37.5°	7218.6	5506.8	2125.2	2023.2	2281.8	2431.1	2452.9	2201.6	2063.2	1999.5	1983.1
40°	7316.9	5188.1	1886.6	1979.5	2279.9	2473.0	2345.5	2090.6	1824.7	1700.9	1691.7
42.5°	7448.1	4874.9	1740.9	1952.2	2301.8	2536.7	2301.8	1933.9	1644.4	1571.6	1560.6
45°	7642.9	4516.2	1660.8	1939.4	2334.6	2560.4	2287.2	1819.2	1571.6	1513.3	1513.3
47.5°	7863.3	4173.8	1617.1	1930.3	2376.5	2544.0	2157.9	1782.8	1537.0	1544.2	1578.8
50°	8081.8	3877.0	1584.3	1910.3	2412.9	2534.9	2105.1	1781.0	1546.1	1638.9	1700.9
52.5°	8334.9	3667.6	1544.2	1877.5	2412.9	2476.6	2088.7	1817.4	1571.6	1598.9	1626.2
55°	8640.8	3602.0	1493.3	1806.5	2369.2	2330.9	2079.6	1870.2	1589.8	1526.0	1537.0
57.5°	9045.1	3707.6	1444.1	1717.2	2269.0	2179.8	2076.0	1884.8	1547.9	1495.1	1484.1
60°	9514.9	3917.1	1429.5	1626.2	2132.4	2050.5	2054.1	1842.9	1489.6	1435.0	1444.1
62.5°	9844.5	4042.7	1420.4	1557.0	1983.1	1908.5	2001.3	1791.9	1464.1	1416.8	1425.9
65°	9844.5	3889.7	1336.6	1451.4	1790.1	1737.3	1937.6	1728.2	1431.3	1376.7	1367.6
67.5°	9471.2	3443.6	1209.2	1292.9	1577.0	1542.4	1848.4	1651.7	1382.2	1340.3	1318.4
70°	8498.8	2611.4	1048.9	1107.2	1307.5	1338.5	1733.6	1547.9	1300.2	1249.2	1216.5
71°	8070.9	2274.5	981.5	1012.5	1203.7	1249.2	1679.0	1504.2	1263.8	1191.0	1132.7
72.5°	7245.9	1915.7	879.6	892.3	1028.9	1110.8	1564.3	1420.4	1194.6	1090.8	1025.2
75°	5505.0	1398.6	708.4	701.1	761.2	881.4	1323.9	1265.6	1047.1	906.9	868.6
77.5°	2378.3	761.2	529.9	535.4	517.2	668.3	1041.6	1087.2	897.8	737.5	702.9
80°	721.1	438.9	362.4	369.7	346.0	448.0	733.9	852.2	721.1	573.6	526.3
82.5°	369.7	262.2	247.7	244.0	220.3	253.1	444.3	582.7	515.4	358.7	316.9
85°	160.3	140.2	122.0	118.4	103.8	91.1	158.4	291.4	273.2	200.3	191.2
87.5°	40.1	36.4	23.7	21.9	12.7	1.8	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)