

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: P457402

Luminaire Tested: **GALN-SA8D-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457402
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-SA8D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53242 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

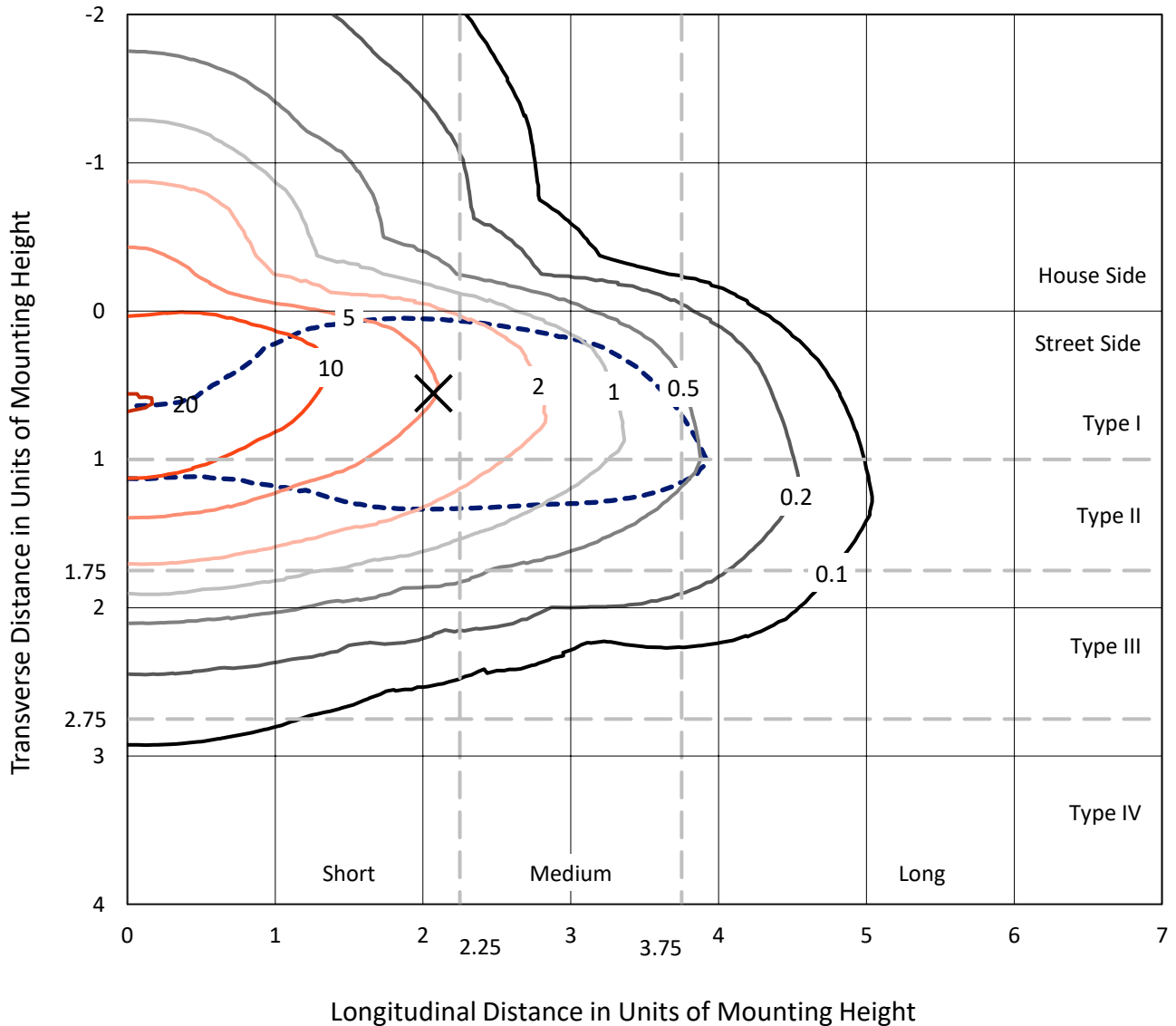
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

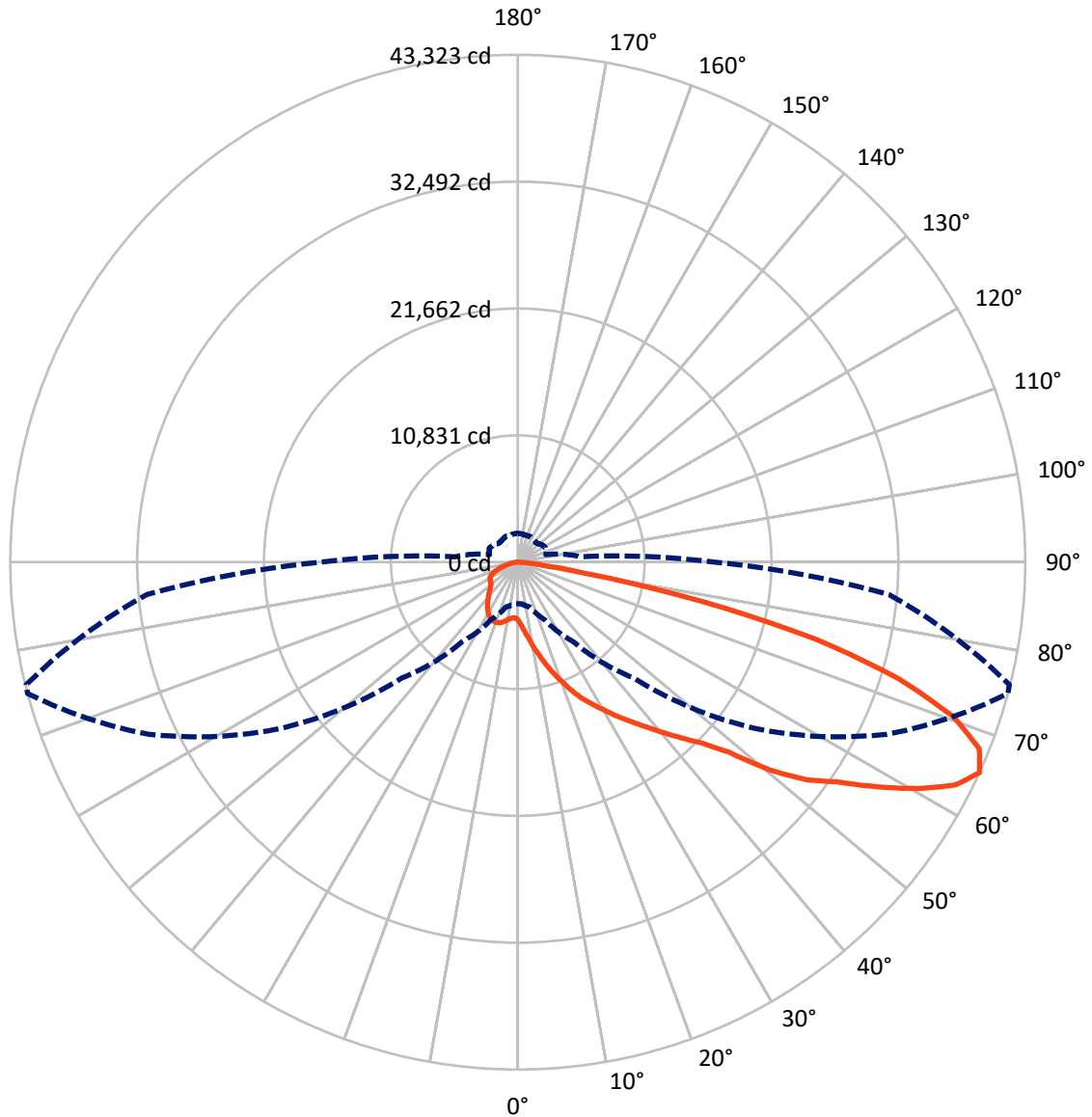
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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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	8950.7	0.0	8950.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	44291.3	0.0	44291.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	53242.0	0.0	53242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.0	1.1
10°-20°	2354.1	4.4
20°-30°	4547.4	8.5
30°-40°	7386.4	13.9
40°-50°	10160.6	19.1
50°-60°	11996.2	22.5
60°-70°	10510.7	19.7
70°-80°	5017.9	9.4
80°-90°	667.7	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°	53242.0	100.0
0°-180°	53242.0	100.0

Coefficient of Utilization



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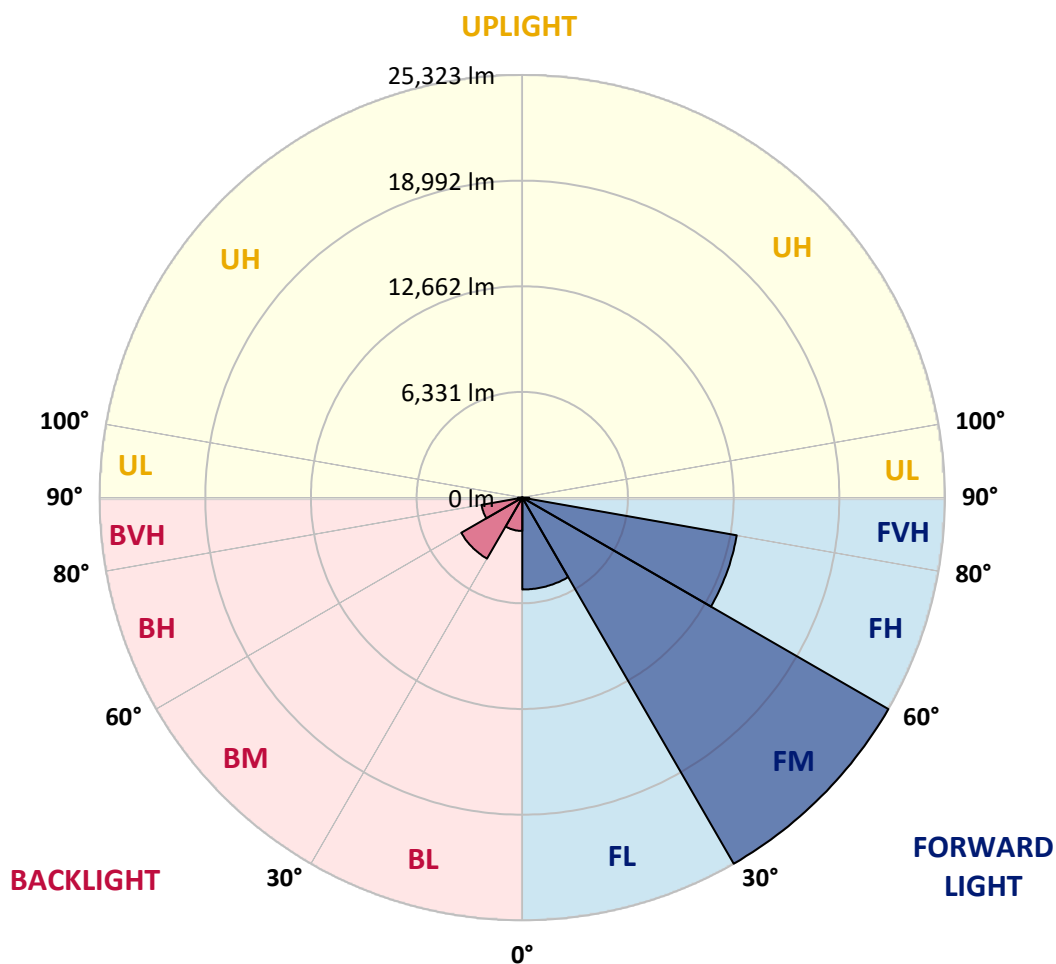
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5504.4	10.3			
FM	(30°-60°)	25323.0	47.6			
FH	(60°-80°)	13046.7	24.5			G5
FVH	(80°-90°)	417.3	0.8			G3/500
BL	(0°-30°)	1998.2	3.8	B3/2500		
BM	(30°-60°)	4220.2	7.9	B3/5000		
BH	(60°-80°)	2481.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	250.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9
2.5°	6572.7	6529.4	6483.2	6356.1	6220.4	6067.3	5847.9	5637.0	5356.9	5348.3	5140.3
5°	8394.9	8366.0	8161.0	8042.6	7727.8	7309.1	6953.9	6402.3	5891.2	5830.5	5426.2
7.5°	10069.9	9957.2	9879.3	9665.6	9353.7	8816.5	8129.2	7384.2	6529.4	6448.5	5778.5
10°	11331.8	11320.3	11279.9	11095.0	10861.1	10326.9	9564.5	8496.0	7338.0	7179.1	6205.9
12.5°	12276.2	12284.8	12279.1	12276.2	12108.7	11655.3	10829.4	9703.1	8155.2	8042.6	6699.8
15°	12897.1	12983.7	13018.3	13162.7	13177.2	12873.9	12163.5	10869.8	9076.5	8909.0	7231.1
17.5°	13307.1	13350.4	13512.2	13757.6	13956.9	13902.0	13269.6	11949.8	10017.9	9737.8	7782.7
20°	13699.9	13775.0	13899.1	14234.1	14586.4	14748.2	14303.4	13055.9	10950.7	10771.6	8392.0
22.5°	14517.1	14624.0	14667.3	14837.7	15138.0	15423.9	15221.8	14115.7	11972.9	11730.4	9038.9
25°	15900.4	16013.0	15891.7	15851.3	15949.5	16091.0	16047.7	15114.9	12937.5	12590.9	9651.1
27.5°	17702.4	17716.8	17480.0	17254.8	17012.2	16940.0	16807.2	16001.5	13775.0	13486.2	10266.2
30°	19637.2	19567.9	19175.2	18768.0	18357.9	17953.6	17572.5	16856.3	14707.7	14375.6	10869.8
32.5°	21433.5	21395.9	20959.9	20327.4	19634.4	19253.2	18482.1	17719.7	15706.9	15386.4	11490.7
35°	22779.2	22834.1	22354.7	21664.5	20907.9	20570.0	19596.8	18626.5	16740.8	16391.3	12166.4
37.5°	23735.1	23706.2	23281.7	22683.9	22019.7	21725.2	20899.2	19617.0	17852.6	17517.6	12905.7
40°	24075.8	24058.5	23743.7	23307.7	22886.1	22782.1	22262.3	20685.5	19126.1	18733.4	13795.2
42.5°	23859.3	23896.8	23688.9	23570.5	23492.5	23567.6	23616.7	22086.1	20515.2	20154.2	14759.7
45°	23195.1	23174.8	23146.0	23339.4	23778.4	24272.2	24956.6	23408.8	22025.5	21736.7	16053.5
47.5°	22008.2	22152.6	22224.7	22759.0	23717.8	24887.3	26498.7	25181.9	24217.3	23966.1	18025.8
50°	20347.7	20463.2	20890.6	21840.7	23270.1	25118.4	28006.2	28081.3	27873.3	27402.6	20168.6
52.5°	17754.4	17933.4	18814.2	20555.6	22351.8	25023.1	28918.7	30567.7	30842.0	30489.7	22279.6
55°	14852.1	15103.4	16033.2	18317.5	21086.9	24503.2	29548.3	32008.7	33103.2	32776.9	24312.6
57.5°	12010.5	12276.2	13232.0	15444.1	18880.6	23353.9	29961.2	33614.4	36181.6	35757.1	26842.4
60°	9001.4	9278.6	10098.7	12377.2	15738.7	21107.2	29681.1	35006.3	39257.2	39075.2	29375.0
62.5°	5807.4	6113.5	6826.8	8712.6	12097.1	18037.4	28182.3	35774.4	41919.8	41700.3	31223.2
65°	3537.6	3572.2	3965.0	5408.9	8279.4	13965.6	24754.5	34755.0	43323.2	43256.8	31786.4
67.5°	2287.2	2342.0	2521.1	3240.1	4964.2	9700.2	19793.2	31390.7	42503.1	42480.0	30622.6
70°	1932.0	1949.3	2030.1	2186.1	2884.9	5882.5	13899.1	26028.0	39387.1	39387.1	27824.3
72.5°	1726.9	1750.0	1778.9	1828.0	2059.0	3332.6	8293.9	20261.0	34007.1	34232.3	23683.1
75°	1568.1	1562.3	1579.6	1588.3	1755.8	2177.4	4288.4	14985.0	26308.1	25857.6	17150.8
77.5°	1342.8	1351.5	1342.8	1380.4	1550.8	1657.6	2177.4	10055.4	15943.7	15360.4	8608.6
80°	1103.2	1117.6	1132.0	1155.1	1325.5	1259.1	1308.2	4583.0	5897.0	5772.8	2659.7
82.5°	828.8	849.0	872.1	927.0	1042.5	831.7	825.9	1957.9	2128.3	1949.3	979.0
85°	335.0	395.6	597.8	652.6	655.5	456.3	508.3	817.3	869.2	849.0	384.1
87.5°	78.0	92.4	193.5	291.7	268.6	170.4	187.7	265.7	303.2	280.1	130.0
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°	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9	4946.9
2.5°	5045.0	4944.0	4770.7	4637.9	4542.6	4458.8	4406.8	4375.1	4363.5	4360.6	4363.5
5°	5215.4	5036.4	4762.0	4588.8	4493.5	4438.6	4406.8	4403.9	4406.8	4409.7	4401.1
7.5°	5449.3	5192.3	4834.2	4672.5	4600.3	4559.9	4545.4	4539.7	4542.6	4539.7	4539.7
10°	5761.2	5408.9	4975.7	4808.2	4747.6	4701.4	4678.3	4663.8	4652.3	4640.7	4635.0
12.5°	6104.9	5648.6	5128.8	4967.1	4880.4	4808.2	4756.3	4718.7	4692.7	4666.7	4661.0
15°	6489.0	5902.7	5299.2	5073.9	4949.7	4842.9	4753.4	4692.7	4646.5	4609.0	4606.1
17.5°	6855.7	6142.4	5414.7	5123.0	4941.1	4790.9	4672.5	4588.8	4531.0	4481.9	4476.1
20°	7248.5	6370.6	5466.7	5091.2	4854.4	4672.5	4516.6	4415.5	4349.1	4294.2	4285.5
22.5°	7644.1	6564.0	5460.9	4990.2	4704.3	4490.6	4326.0	4219.1	4141.1	4086.3	4066.1
25°	8022.4	6720.0	5388.7	4828.5	4496.4	4274.0	4106.5	4008.3	3939.0	3872.6	3872.6
27.5°	8363.2	6812.4	5253.0	4632.1	4282.7	4048.7	3915.9	3826.4	3762.8	3719.5	3693.5
30°	8698.1	6855.7	5068.1	4383.7	4057.4	3858.1	3751.3	3699.3	3641.6	3592.5	3586.7
32.5°	8998.5	6847.0	4837.1	4141.1	3843.7	3702.2	3658.9	3618.5	3557.8	3488.5	3471.2
35°	9290.2	6789.3	4562.8	3875.5	3664.7	3609.8	3621.3	3563.6	3453.8	3367.2	3352.8
37.5°	9607.8	6685.3	4262.4	3658.9	3514.5	3566.5	3595.3	3468.3	3289.2	3153.5	3121.7
40°	9974.6	6566.9	3950.6	3442.3	3396.1	3526.0	3526.0	3292.1	3046.7	2962.9	2939.8
42.5°	10404.9	6468.7	3690.6	3260.4	3297.9	3427.9	3413.4	3058.2	2957.1	2913.8	2902.3
45°	11086.4	6434.1	3422.1	3101.5	3217.0	3312.3	3193.9	2977.4	2919.6	2884.9	2873.4
47.5°	12163.5	6474.5	3185.3	2983.1	3124.6	3196.8	2948.5	2922.5	2882.1	2833.0	2827.2
50°	13162.7	6437.0	3017.8	2916.7	3043.8	3058.2	2847.4	2856.1	2833.0	2778.1	2766.5
52.5°	13980.0	6318.6	2910.9	2882.1	2974.5	2815.6	2752.1	2783.9	2775.2	2705.9	2694.3
55°	14878.1	6246.4	2859.0	2882.1	2928.3	2604.8	2662.6	2708.8	2697.2	2648.1	2645.3
57.5°	15966.8	6260.8	2821.4	2890.7	2882.1	2498.0	2573.1	2627.9	2625.0	2610.6	2610.6
60°	17081.5	6266.6	2763.7	2887.8	2827.2	2414.2	2480.6	2558.6	2564.4	2573.1	2573.1
62.5°	17451.2	6015.4	2651.0	2835.8	2705.9	2333.4	2394.0	2500.9	2495.1	2518.2	2521.1
65°	16761.0	5319.4	2483.5	2717.4	2550.0	2275.6	2327.6	2425.8	2394.0	2454.7	2466.2
67.5°	15256.4	4401.1	2223.6	2503.7	2376.7	2215.0	2284.3	2321.8	2264.1	2382.5	2385.3
70°	13185.8	3436.5	1894.4	2200.5	2180.3	2151.4	2249.6	2191.9	2111.0	2255.4	2226.5
72.5°	11025.7	2625.0	1513.2	1799.1	1917.5	2056.1	2189.0	2024.4	1911.7	1955.1	1903.1
75°	8282.3	1940.6	1215.8	1409.3	1597.0	1920.4	2134.1	1822.2	1649.0	1608.5	1597.0
77.5°	4222.0	1267.8	909.7	1054.1	1198.4	1735.6	2059.0	1585.4	1365.9	1302.4	1273.5
80°	1507.4	788.4	641.1	727.7	808.6	1493.0	1799.1	1311.1	1059.8	1048.3	1059.8
82.5°	698.9	508.3	430.3	476.5	479.4	996.3	1371.7	979.0	805.7	1224.4	1033.8
85°	300.3	254.1	242.6	236.8	219.5	444.7	771.1	525.6	820.1	366.8	337.9
87.5°	89.5	101.1	89.5	66.4	49.1	49.1	78.0	28.9	20.2	14.4	14.4
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)