

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: P457866

Luminaire Tested: **GALN-SA9B-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457866
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-SA9B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43966 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

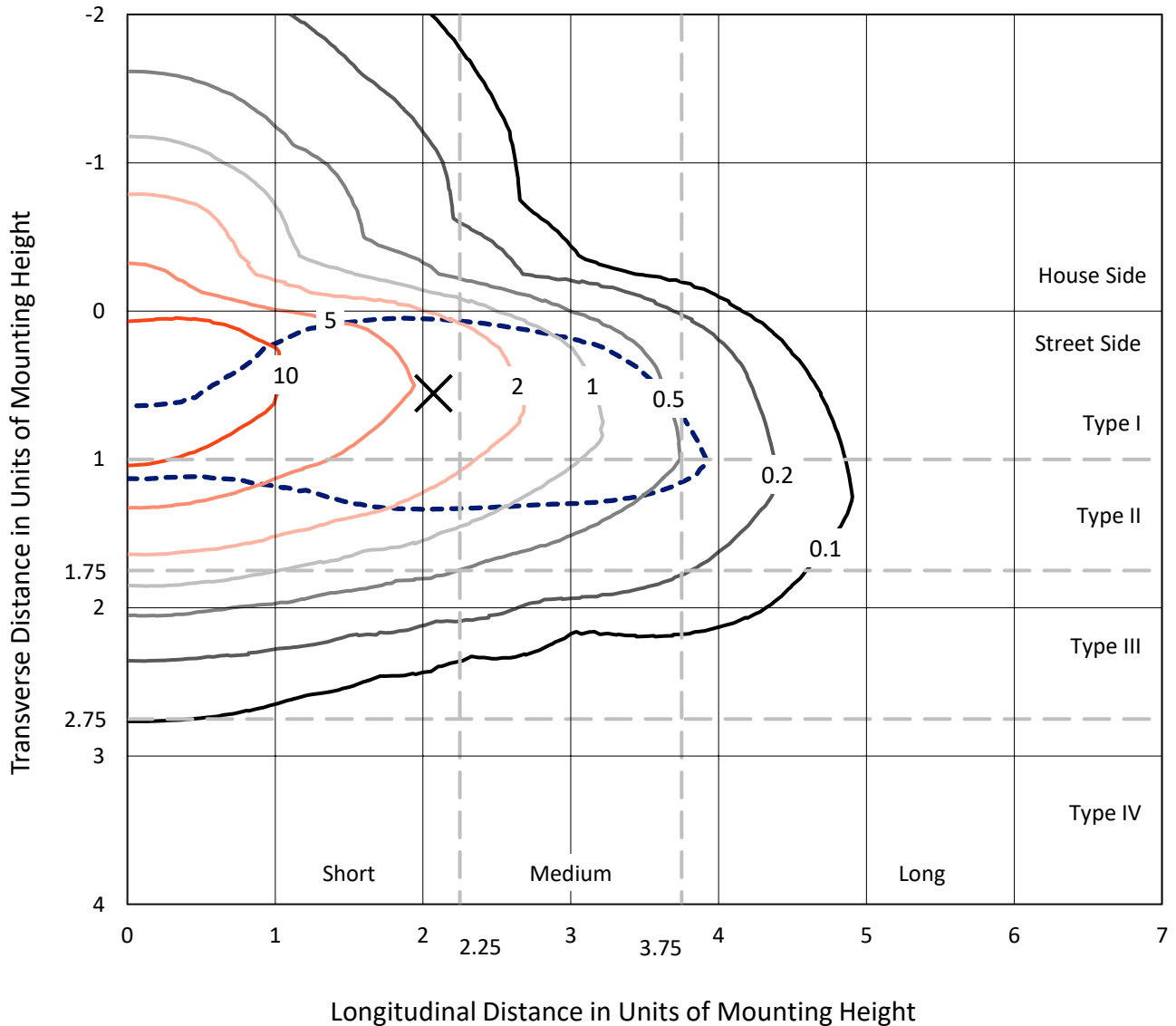
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

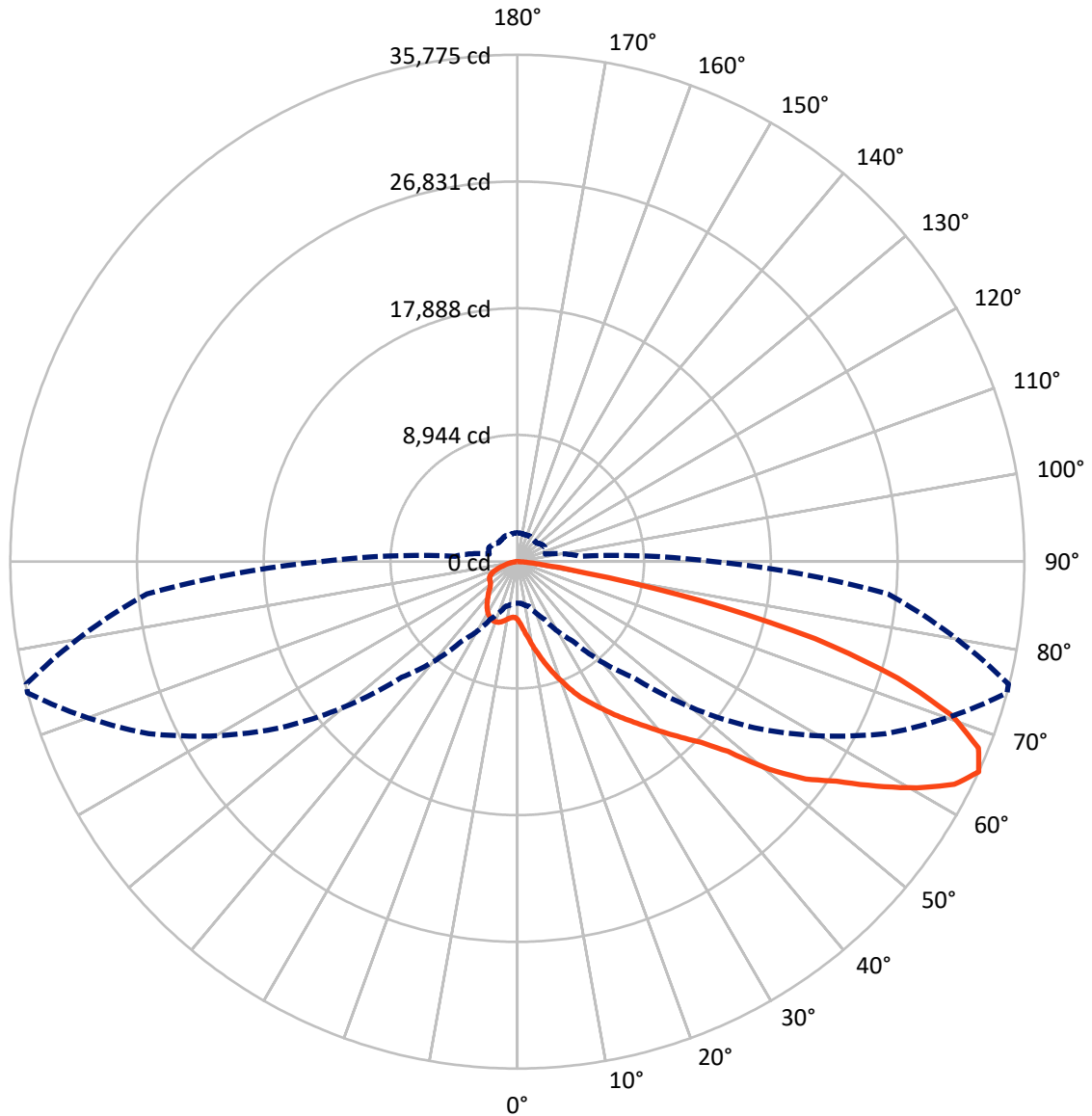
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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	7391.3	0.0	7391.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	36574.7	0.0	36574.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	43966.0	0.0	43966.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.3	1.1
10°-20°	1944.0	4.4
20°-30°	3755.1	8.5
30°-40°	6099.5	13.9
40°-50°	8390.4	19.1
50°-60°	9906.2	22.5
60°-70°	8679.5	19.7
70°-80°	4143.6	9.4
80°-90°	551.4	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°	43966.0	100.0
0°-180°	43966.0	100.0



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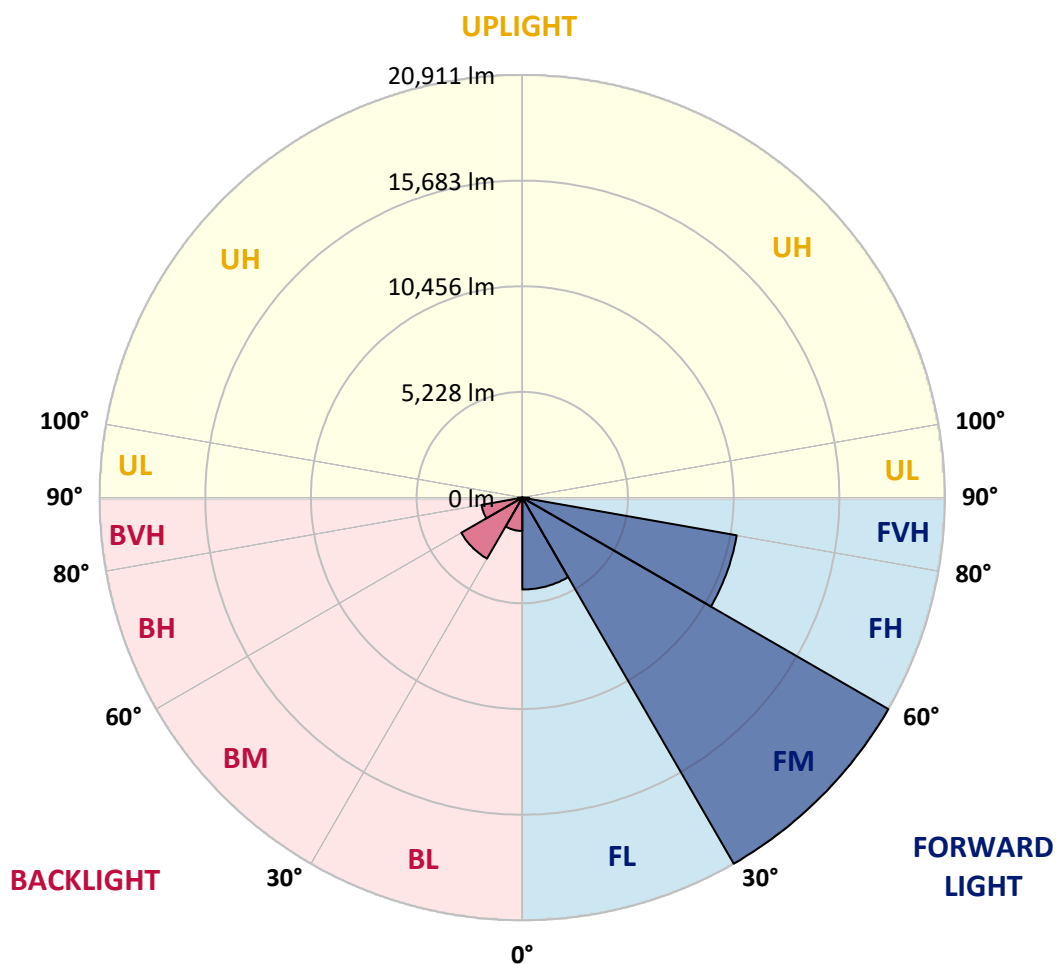
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4545.4	10.3			
FM	(30°-60°)	20911.2	47.6			
FH	(60°-80°)	10773.6	24.5			G4/12000
FVH	(80°-90°)	344.6	0.8			G3/500
BL	(0°-30°)	1650.1	3.8	B3/2500		
BM	(30°-60°)	3484.9	7.9	B3/5000		
BH	(60°-80°)	2049.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	206.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0
2.5°	5427.6	5391.8	5353.7	5248.7	5136.7	5010.3	4829.0	4654.9	4423.6	4416.5	4244.8
5°	6932.3	6908.5	6739.2	6641.4	6381.5	6035.7	5742.4	5286.9	4864.8	4814.7	4480.9
7.5°	8315.5	8222.5	8158.1	7981.6	7724.1	7280.5	6712.9	6097.7	5391.8	5325.0	4771.8
10°	9357.6	9348.0	9314.7	9162.0	8968.9	8527.7	7898.1	7015.8	6059.5	5928.4	5124.7
12.5°	10137.4	10144.5	10139.8	10137.4	9999.1	9624.7	8942.6	8012.6	6734.4	6641.4	5532.5
15°	10650.1	10721.6	10750.2	10869.5	10881.4	10631.0	10044.4	8976.0	7495.1	7356.8	5971.3
17.5°	10988.7	11024.5	11158.0	11360.7	11525.3	11480.0	10957.7	9867.9	8272.5	8041.2	6426.8
20°	11313.0	11375.0	11477.6	11754.2	12045.1	12178.7	11811.4	10781.2	9042.8	8894.9	6929.9
22.5°	11987.9	12076.1	12111.9	12252.6	12500.6	12736.7	12569.8	11656.4	9887.0	9686.7	7464.1
25°	13130.2	13223.2	13123.0	13089.6	13170.7	13287.6	13251.8	12481.5	10683.5	10397.3	7969.7
27.5°	14618.2	14630.2	14434.6	14248.6	14048.3	13988.7	13879.0	13213.6	11375.0	11136.6	8477.6
30°	16216.0	16158.7	15834.4	15498.2	15159.6	14825.7	14510.9	13919.5	12145.3	11871.1	8976.0
32.5°	17699.3	17668.3	17308.2	16785.9	16213.6	15898.8	15262.1	14632.5	12970.4	12705.7	9488.7
35°	18810.5	18855.8	18460.0	17890.0	17265.3	16986.2	16182.6	15381.3	13824.1	13535.6	10046.8
37.5°	19599.9	19576.0	19225.5	18731.8	18183.4	17940.1	17258.1	16199.3	14742.2	14465.6	10657.2
40°	19881.3	19867.0	19607.0	19246.9	18898.8	18812.9	18383.7	17081.6	15793.9	15469.6	11391.7
42.5°	19702.4	19733.4	19561.7	19463.9	19399.6	19461.6	19502.1	18238.2	16940.9	16642.8	12188.2
45°	19153.9	19137.2	19113.4	19273.2	19635.6	20043.4	20608.6	19330.4	18188.1	17949.7	13256.6
47.5°	18173.8	18293.1	18352.7	18793.8	19585.6	20551.4	21882.0	20794.6	19998.1	19790.7	14885.3
50°	16802.6	16898.0	17250.9	18035.5	19215.9	20742.1	23126.9	23188.9	23017.2	22628.4	16654.8
52.5°	14661.2	14809.0	15536.3	16974.3	18457.6	20663.5	23880.4	25242.1	25468.6	25177.7	18398.0
55°	12264.5	12472.0	13239.9	15126.2	17413.1	20234.2	24400.3	26432.1	27335.9	27066.4	20076.8
57.5°	9918.0	10137.4	10926.7	12753.4	15591.2	19285.1	24741.3	27757.9	29877.9	29527.4	22165.8
60°	7433.1	7662.1	8339.3	10220.8	12996.6	17429.8	24510.0	28907.4	32417.7	32267.4	24257.2
62.5°	4795.6	5048.4	5637.4	7194.6	9989.5	14894.9	23272.3	29541.7	34616.4	34435.1	25783.4
65°	2921.3	2949.9	3274.2	4466.5	6836.9	11532.4	20441.7	28699.9	35775.3	35720.5	26248.4
67.5°	1888.7	1934.0	2081.8	2675.6	4099.3	8010.2	16344.8	25921.7	35098.1	35079.0	25287.4
70°	1595.4	1609.7	1676.4	1805.2	2382.3	4857.6	11477.6	21493.3	32525.0	32525.0	22976.6
72.5°	1426.1	1445.1	1469.0	1509.5	1700.3	2751.9	6848.9	16731.1	28082.3	28268.3	19557.0
75°	1294.9	1290.1	1304.4	1311.6	1449.9	1798.1	3541.3	12374.2	21724.6	21352.6	14162.8
77.5°	1108.9	1116.0	1108.9	1139.9	1280.6	1368.8	1798.1	8303.5	13165.9	12684.2	7108.8
80°	911.0	922.9	934.8	953.9	1094.6	1039.7	1080.3	3784.5	4869.6	4767.0	2196.3
82.5°	684.4	701.1	720.2	765.5	860.9	686.8	682.0	1616.8	1757.5	1609.7	808.4
85°	276.6	326.7	493.6	538.9	541.3	376.8	419.7	674.9	717.8	701.1	317.2
87.5°	64.4	76.3	159.8	240.9	221.8	140.7	155.0	219.4	250.4	231.3	107.3
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°	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0	4085.0
2.5°	4166.1	4082.6	3939.5	3829.8	3751.1	3682.0	3639.1	3612.8	3603.3	3600.9	3603.3
5°	4306.8	4158.9	3932.4	3789.3	3710.6	3665.3	3639.1	3636.7	3639.1	3641.4	3634.3
7.5°	4499.9	4287.7	3992.0	3858.4	3798.8	3765.4	3753.5	3748.8	3751.1	3748.8	3748.8
10°	4757.5	4466.5	4108.8	3970.5	3920.5	3882.3	3863.2	3851.3	3841.8	3832.2	3827.4
12.5°	5041.3	4664.5	4235.2	4101.7	4030.1	3970.5	3927.6	3896.6	3875.1	3853.7	3848.9
15°	5358.4	4874.3	4375.9	4189.9	4087.4	3999.1	3925.2	3875.1	3837.0	3806.0	3803.6
17.5°	5661.3	5072.3	4471.3	4230.5	4080.2	3956.2	3858.4	3789.3	3741.6	3701.1	3696.3
20°	5985.6	5260.7	4514.2	4204.2	4008.7	3858.4	3729.7	3646.2	3591.4	3546.1	3538.9
22.5°	6312.3	5420.4	4509.5	4120.8	3884.7	3708.2	3572.3	3484.1	3419.7	3374.4	3357.7
25°	6624.7	5549.2	4449.9	3987.2	3713.0	3529.4	3391.0	3310.0	3252.7	3197.9	3197.9
27.5°	6906.1	5625.5	4337.8	3825.1	3536.5	3343.4	3233.7	3159.7	3107.3	3071.5	3050.0
30°	7182.7	5661.3	4185.2	3620.0	3350.5	3186.0	3097.7	3054.8	3007.1	2966.6	2961.8
32.5°	7430.7	5654.1	3994.4	3419.7	3174.0	3057.2	3021.4	2988.0	2938.0	2880.7	2866.4
35°	7671.6	5606.4	3767.8	3200.3	3026.2	2980.9	2990.4	2942.7	2852.1	2780.6	2768.6
37.5°	7933.9	5520.6	3519.8	3021.4	2902.2	2945.1	2969.0	2864.0	2716.2	2604.1	2577.9
40°	8236.8	5422.8	3262.3	2842.6	2804.4	2911.7	2911.7	2718.6	2515.9	2446.7	2427.6
42.5°	8592.1	5341.7	3047.7	2692.3	2723.3	2830.6	2818.7	2525.4	2441.9	2406.2	2396.6
45°	9154.9	5313.1	2825.9	2561.2	2656.6	2735.3	2637.5	2458.6	2410.9	2382.3	2372.8
47.5°	10044.4	5346.5	2630.3	2463.4	2580.2	2639.9	2434.8	2413.3	2379.9	2339.4	2334.6
50°	10869.5	5315.5	2492.0	2408.6	2513.5	2525.4	2351.3	2358.5	2339.4	2294.1	2284.5
52.5°	11544.3	5217.7	2403.8	2379.9	2456.2	2325.1	2272.6	2298.9	2291.7	2234.5	2224.9
55°	12286.0	5158.1	2360.9	2379.9	2418.1	2151.0	2198.7	2236.9	2227.3	2186.8	2184.4
57.5°	13185.0	5170.0	2329.9	2387.1	2379.9	2062.8	2124.8	2170.1	2167.7	2155.8	2155.8
60°	14105.5	5174.8	2282.2	2384.7	2334.6	1993.6	2048.5	2112.8	2117.6	2124.8	2124.8
62.5°	14410.8	4967.3	2189.2	2341.8	2234.5	1926.8	1976.9	2065.2	2060.4	2079.5	2081.8
65°	13840.8	4392.6	2050.8	2244.0	2105.7	1879.1	1922.1	2003.2	1976.9	2027.0	2036.5
67.5°	12598.4	3634.3	1836.2	2067.5	1962.6	1829.1	1886.3	1917.3	1869.6	1967.4	1969.8
70°	10888.6	2837.8	1564.4	1817.1	1800.5	1776.6	1857.7	1810.0	1743.2	1862.5	1838.6
72.5°	9104.8	2167.7	1249.6	1485.7	1583.4	1697.9	1807.6	1671.7	1578.7	1614.4	1571.5
75°	6839.3	1602.5	1004.0	1163.7	1318.7	1585.8	1762.3	1504.7	1361.7	1328.3	1318.7
77.5°	3486.4	1046.9	751.2	870.4	989.7	1433.2	1700.3	1309.2	1128.0	1075.5	1051.7
80°	1244.8	651.0	529.4	600.9	667.7	1232.9	1485.7	1082.7	875.2	865.6	875.2
82.5°	577.1	419.7	355.3	393.5	395.9	822.7	1132.7	808.4	665.3	1011.1	853.7
85°	248.0	209.9	200.3	195.5	181.2	367.2	636.7	434.0	677.3	302.9	279.0
87.5°	73.9	83.5	73.9	54.8	40.5	40.5	64.4	23.8	16.7	11.9	11.9
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)