

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: P456271

Luminaire Tested: **GALN-SA7C-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456271
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-SA7C-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45449 lumens
Efficiency: N/A
Efficacy: 120.6 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

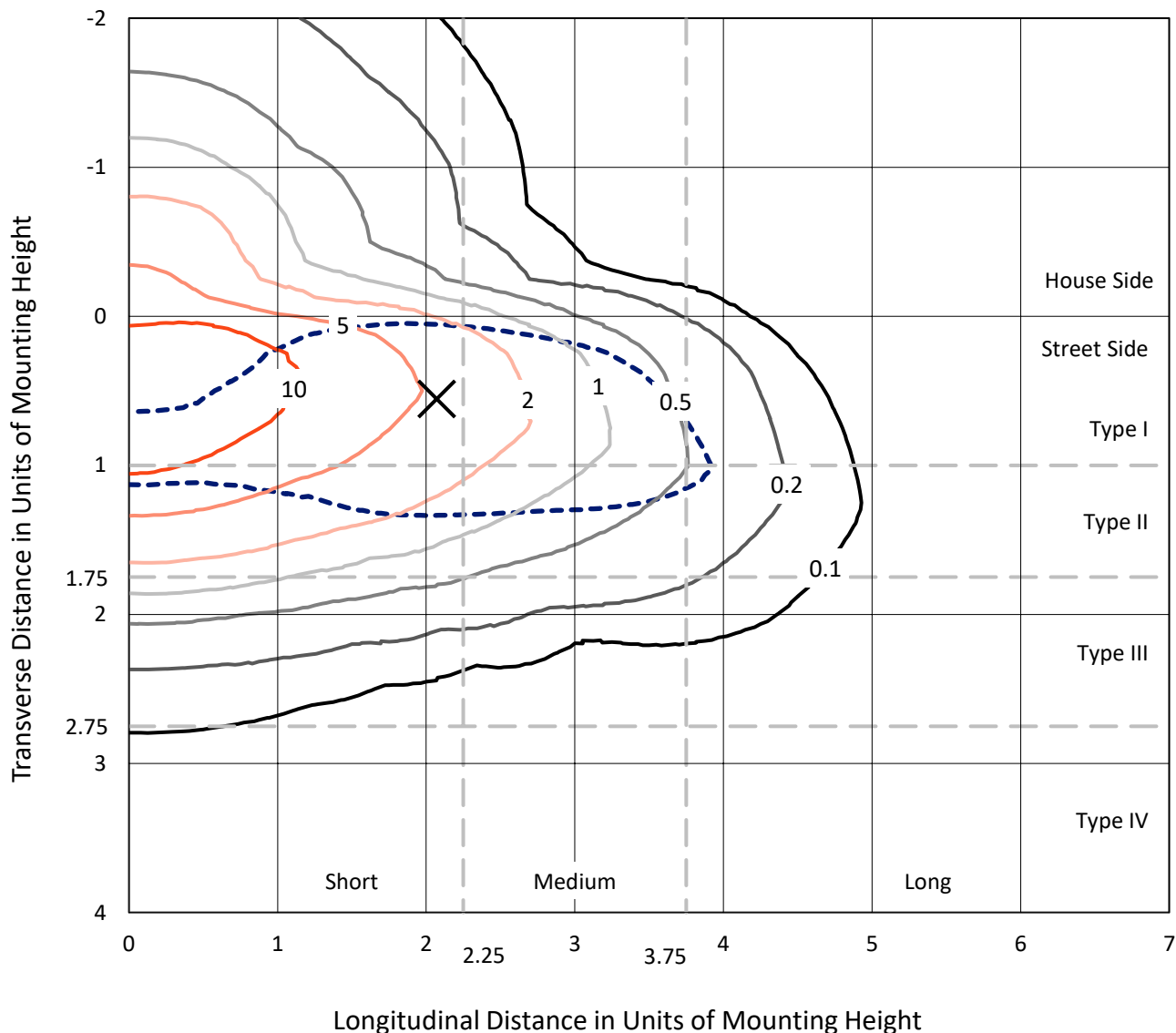
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

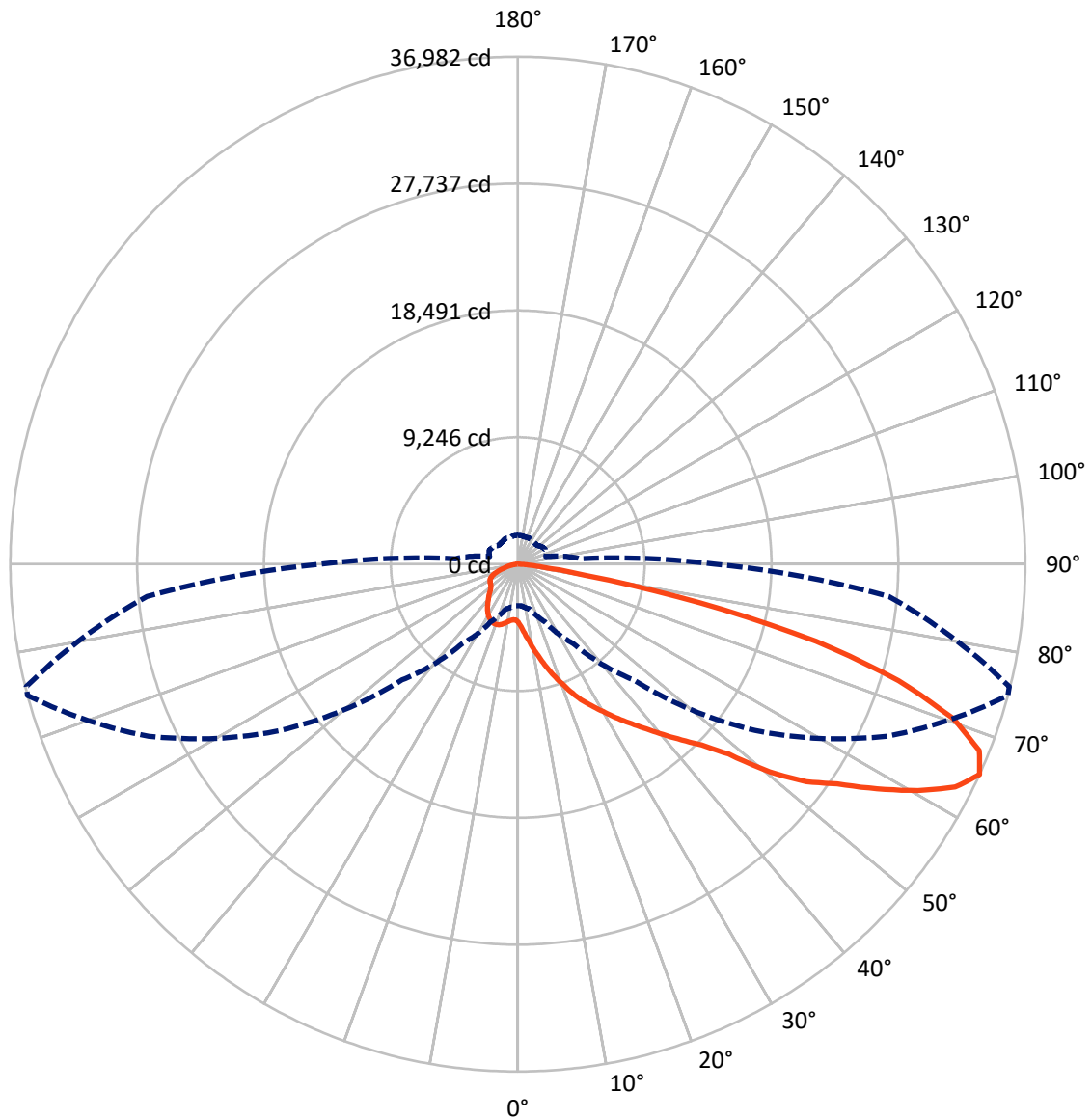
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	7640.6	0.0	7640.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	37808.4	0.0	37808.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	45449.0	0.0	45449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.1	1.1
10°-20°	2009.6	4.4
20°-30°	3881.8	8.5
30°-40°	6305.2	13.9
40°-50°	8673.4	19.1
50°-60°	10240.3	22.5
60°-70°	8972.2	19.7
70°-80°	4283.4	9.4
80°-90°	570.0	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°	45449.0	100.0
0°-180°	45449.0	100.0

Coefficient of Utilization



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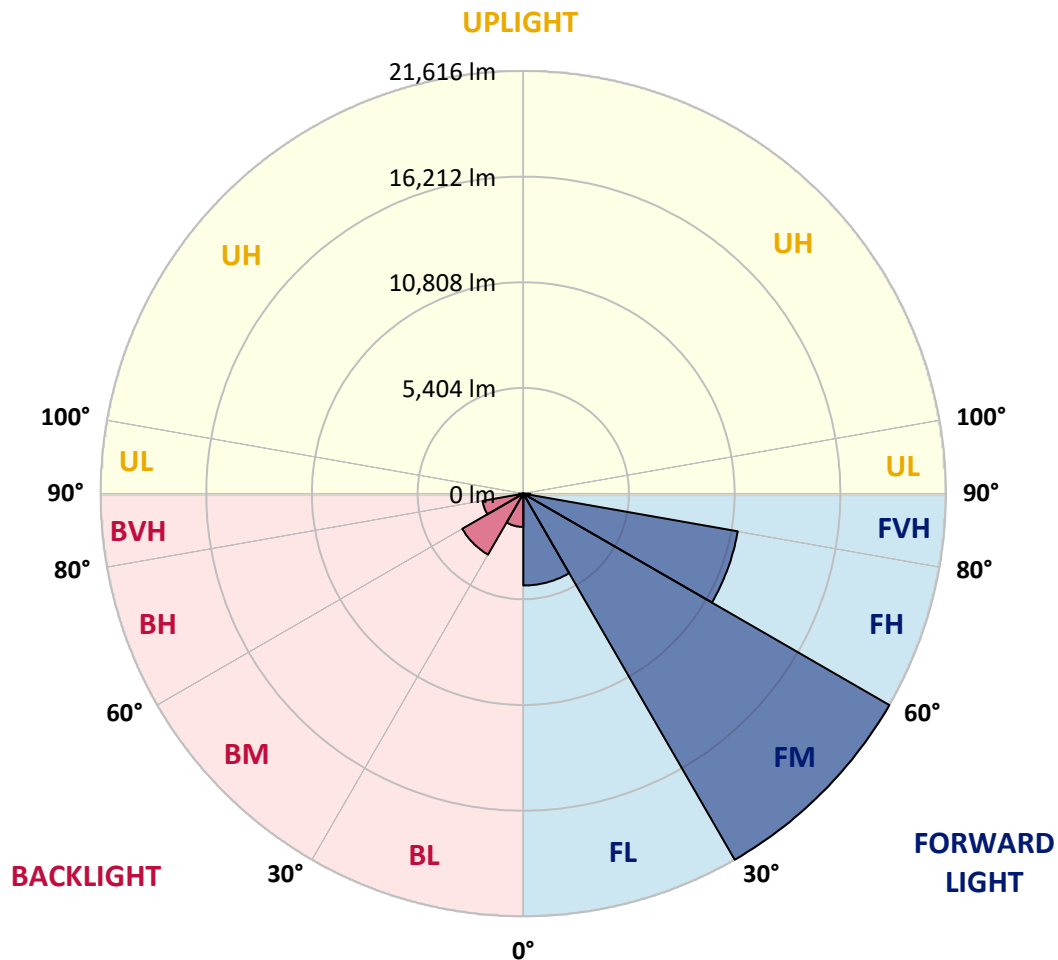
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4698.7	10.3			
FM	(30°-60°)	21616.5	47.6			
FH	(60°-80°)	11137.0	24.5			G4/12000
FVH	(80°-90°)	356.2	0.8			G3/500
BL	(0°-30°)	1705.7	3.8	B3/2500		
BM	(30°-60°)	3602.5	7.9	B3/5000		
BH	(60°-80°)	2118.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	213.8	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°	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8
2.5°	5610.7	5573.7	5534.2	5425.8	5309.9	5179.3	4991.9	4812.0	4572.8	4565.4	4388.0
5°	7166.2	7141.5	6966.5	6865.4	6596.7	6239.3	5936.1	5465.2	5028.9	4977.1	4632.0
7.5°	8595.9	8499.8	8433.2	8250.8	7984.6	7526.1	6939.4	6303.4	5573.7	5504.7	4932.7
10°	9673.2	9663.4	9628.8	9471.1	9271.4	8815.3	8164.5	7252.4	6263.9	6128.3	5297.6
12.5°	10479.3	10486.7	10481.8	10479.3	10336.3	9949.3	9244.3	8282.9	6961.6	6865.4	5719.1
15°	11009.3	11083.3	11112.9	11236.1	11248.4	10989.6	10383.2	9278.8	7747.9	7605.0	6172.7
17.5°	11359.4	11396.3	11534.4	11743.9	11914.0	11867.2	11327.3	10200.8	8551.6	8312.5	6643.6
20°	11694.6	11758.7	11864.7	12150.7	12451.4	12589.5	12209.8	11144.9	9347.8	9195.0	7163.7
22.5°	12392.3	12483.5	12520.4	12665.9	12922.3	13166.3	12993.8	12049.6	10220.5	10013.4	7715.9
25°	13573.1	13669.2	13565.7	13531.2	13615.0	13735.8	13698.8	12902.5	11043.8	10748.0	8238.5
27.5°	15111.3	15123.6	14921.5	14729.2	14522.1	14460.5	14347.1	13659.3	11758.7	11512.2	8763.6
30°	16763.0	16703.8	16368.5	16020.9	15670.9	15325.8	15000.4	14389.0	12555.0	12271.5	9278.8
32.5°	18296.3	18264.2	17892.0	17352.1	16760.5	16435.1	15776.9	15126.1	13407.9	13134.3	9808.8
35°	19445.0	19491.9	19082.7	18493.5	17847.6	17559.2	16728.4	15900.2	14290.4	13992.1	10385.6
37.5°	20261.0	20236.3	19874.0	19363.7	18796.7	18545.3	17840.2	16745.7	15239.5	14953.5	11016.7
40°	20551.9	20537.1	20268.4	19896.2	19536.2	19447.5	19003.8	17657.8	16326.6	15991.4	11776.0
42.5°	20367.0	20399.0	20221.5	20120.5	20053.9	20118.0	20159.9	18853.4	17512.4	17204.2	12599.3
45°	19800.0	19782.8	19758.1	19923.3	20298.0	20719.5	21303.7	19982.4	18801.6	18555.1	13703.7
47.5°	18786.8	18910.1	18971.7	19427.8	20246.2	21244.6	22620.1	21496.0	20672.7	20458.2	15387.4
50°	17369.4	17468.0	17832.8	18643.9	19864.1	21441.8	23906.9	23971.0	23793.5	23391.7	17216.5
52.5°	15155.7	15308.5	16060.4	17546.9	19080.2	21360.4	24685.9	26093.5	26327.7	26027.0	19018.6
55°	12678.2	12892.7	13686.5	15636.4	18000.5	20916.7	25223.3	27323.6	28257.9	27979.3	20754.0
57.5°	10252.5	10479.3	11295.3	13183.6	16117.1	19935.6	25575.8	28694.2	30885.7	30523.4	22913.5
60°	7683.8	7920.5	8620.6	10565.6	13435.0	18017.7	25336.7	29882.4	33511.1	33355.8	25075.4
62.5°	4957.4	5218.7	5827.6	7437.3	10326.5	15397.3	24057.3	30538.2	35784.0	35596.6	26653.1
65°	3019.8	3049.4	3384.6	4617.2	7067.6	11921.4	21131.2	29668.0	36982.0	36925.3	27133.8
67.5°	1952.4	1999.2	2152.1	2765.9	4237.6	8280.4	16896.1	26796.1	36281.9	36262.2	26140.4
70°	1649.2	1664.0	1733.0	1866.1	2462.7	5021.5	11864.7	22218.3	33622.1	33622.1	23751.6
72.5°	1474.2	1493.9	1518.5	1560.4	1757.6	2844.8	7079.9	17295.4	29029.5	29221.8	20216.6
75°	1338.6	1333.6	1348.4	1355.8	1498.8	1858.7	3660.7	12791.6	22457.4	22072.9	14640.5
77.5°	1146.3	1153.7	1146.3	1178.3	1323.8	1415.0	1858.7	8583.6	13610.0	13112.1	7348.6
80°	941.7	954.0	966.3	986.1	1131.5	1074.8	1116.7	3912.2	5033.8	4927.8	2270.4
82.5°	707.5	724.8	744.5	791.3	889.9	710.0	705.0	1671.4	1816.8	1664.0	835.7
85°	286.0	337.7	510.3	557.1	559.6	389.5	433.9	697.6	742.0	724.8	327.9
87.5°	66.6	78.9	165.2	249.0	229.3	145.4	160.2	226.8	258.8	239.1	110.9
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°	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8	4222.8
2.5°	4306.6	4220.3	4072.4	3959.0	3877.7	3806.2	3761.8	3734.7	3724.8	3722.4	3724.8
5°	4452.0	4299.2	4065.0	3917.1	3835.8	3788.9	3761.8	3759.3	3761.8	3764.3	3756.9
7.5°	4651.7	4432.3	4126.6	3988.6	3927.0	3892.5	3880.1	3875.2	3877.7	3875.2	3875.2
10°	4918.0	4617.2	4247.4	4104.5	4052.7	4013.2	3993.5	3981.2	3971.3	3961.5	3956.6
12.5°	5211.3	4821.8	4378.1	4240.0	4166.1	4104.5	4060.1	4028.0	4005.9	3983.7	3978.7
15°	5539.2	5038.7	4523.5	4331.3	4225.3	4134.0	4057.6	4005.9	3966.4	3934.4	3931.9
17.5°	5852.2	5243.4	4622.1	4373.2	4217.9	4089.7	3988.6	3917.1	3867.8	3825.9	3821.0
20°	6187.5	5438.1	4666.5	4346.0	4143.9	3988.6	3855.5	3769.2	3712.5	3665.7	3658.3
22.5°	6525.2	5603.3	4661.6	4259.8	4015.7	3833.3	3692.8	3601.6	3535.0	3488.2	3470.9
25°	6848.2	5736.4	4600.0	4121.7	3838.2	3648.4	3505.4	3421.6	3362.5	3305.8	3305.8
27.5°	7139.0	5815.3	4484.1	3954.1	3655.8	3456.1	3342.7	3266.3	3212.1	3175.1	3152.9
30°	7425.0	5852.2	4326.3	3742.1	3463.5	3293.4	3202.2	3157.8	3108.5	3066.6	3061.7
32.5°	7681.4	5844.8	4129.1	3535.0	3281.1	3160.3	3123.3	3088.8	3037.1	2977.9	2963.1
35°	7930.4	5795.5	3894.9	3308.2	3128.3	3081.4	3091.3	3042.0	2948.3	2874.4	2862.0
37.5°	8201.5	5706.8	3638.5	3123.3	3000.1	3044.4	3069.1	2960.6	2807.8	2691.9	2664.8
40°	8514.6	5605.7	3372.3	2938.4	2899.0	3009.9	3009.9	2810.3	2600.7	2529.2	2509.5
42.5°	8881.9	5521.9	3150.4	2783.1	2815.2	2926.1	2913.8	2610.6	2524.3	2487.3	2477.5
45°	9463.7	5492.3	2921.2	2647.6	2746.2	2827.5	2726.4	2541.6	2492.3	2462.7	2452.8
47.5°	10383.2	5526.8	2719.1	2546.5	2667.3	2728.9	2516.9	2494.7	2460.2	2418.3	2413.4
50°	11236.1	5494.8	2576.1	2489.8	2598.3	2610.6	2430.6	2438.0	2418.3	2371.5	2361.6
52.5°	11933.7	5393.7	2484.9	2460.2	2539.1	2403.5	2349.3	2376.4	2369.0	2309.8	2300.0
55°	12700.4	5332.1	2440.5	2460.2	2499.7	2223.6	2272.9	2312.3	2302.4	2260.5	2258.1
57.5°	13629.8	5344.4	2408.4	2467.6	2460.2	2132.3	2196.4	2243.3	2240.8	2228.5	2228.5
60°	14581.3	5349.4	2359.1	2465.1	2413.4	2060.9	2117.6	2184.1	2189.0	2196.4	2196.4
62.5°	14896.8	5134.9	2263.0	2420.8	2309.8	1991.8	2043.6	2134.8	2129.9	2149.6	2152.1
65°	14307.7	4540.8	2120.0	2319.7	2176.7	1942.5	1986.9	2070.7	2043.6	2095.4	2105.2
67.5°	13023.3	3756.9	1898.2	2137.3	2028.8	1890.8	1949.9	1982.0	1932.7	2033.7	2036.2
70°	11255.8	2933.5	1617.1	1878.4	1861.2	1836.5	1920.3	1871.0	1802.0	1925.3	1900.6
72.5°	9411.9	2240.8	1291.7	1535.8	1636.9	1755.2	1868.6	1728.1	1631.9	1668.9	1624.5
75°	7070.0	1656.6	1037.8	1203.0	1363.2	1639.3	1821.7	1555.5	1407.6	1373.1	1363.2
77.5°	3604.0	1082.2	776.5	899.8	1023.0	1481.5	1757.6	1353.4	1166.0	1111.8	1087.1
80°	1286.8	673.0	547.3	621.2	690.2	1274.5	1535.8	1119.2	904.7	894.8	904.7
82.5°	596.6	433.9	367.3	406.7	409.2	850.5	1170.9	835.7	687.8	1045.2	882.5
85°	256.4	216.9	207.1	202.1	187.4	379.6	658.2	448.7	700.1	313.1	288.4
87.5°	76.4	86.3	76.4	56.7	41.9	41.9	66.6	24.7	17.3	12.3	12.3
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)