

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: P457199

Luminaire Tested: **GALN-SA8C-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457199
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-SA8C-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 52691 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

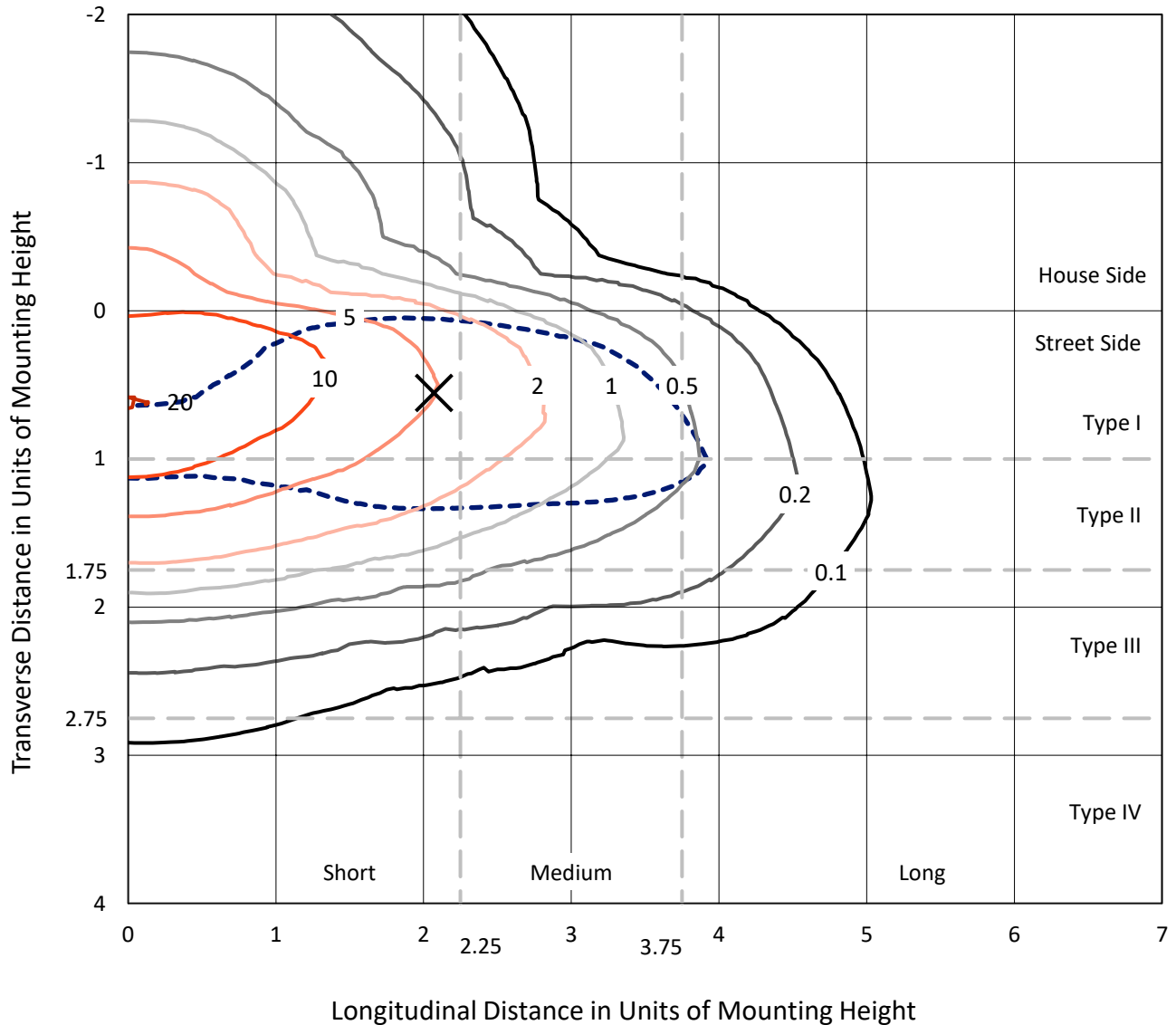
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

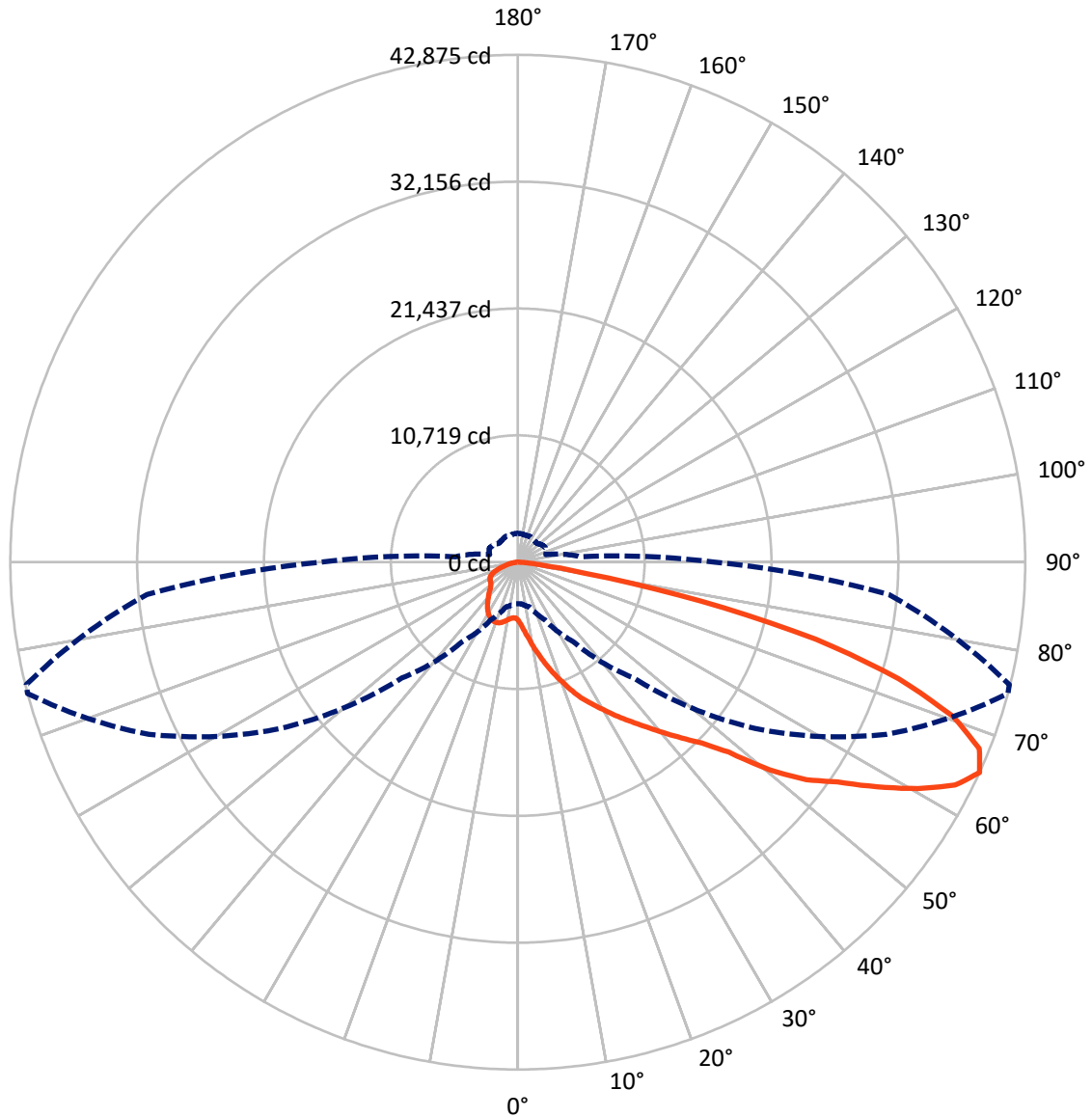
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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	8858.0	0.0	8858.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	43833.0	0.0	43833.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	52691.0	0.0	52691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.8	1.1
10°-20°	2329.8	4.4
20°-30°	4500.3	8.5
30°-40°	7309.9	13.9
40°-50°	10055.5	19.1
50°-60°	11872.1	22.5
60°-70°	10401.9	19.7
70°-80°	4965.9	9.4
80°-90°	660.8	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°	52691.0	100.0
0°-180°	52691.0	100.0

Coefficient of Utilization



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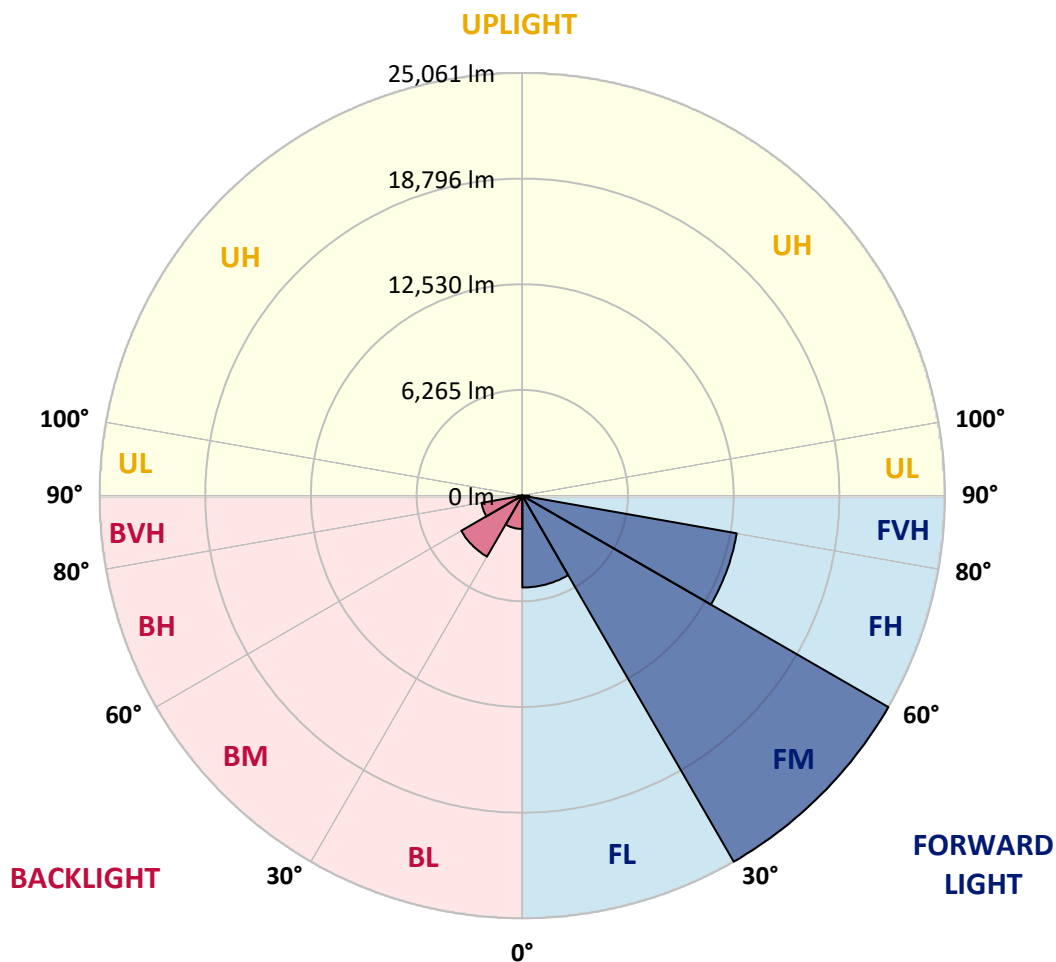
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5447.4	10.3			
FM	(30°-60°)	25061.0	47.6			
FH	(60°-80°)	12911.7	24.5			G5
FVH	(80°-90°)	412.9	0.8			G3/500
BL	(0°-30°)	1977.5	3.8	B3/2500		
BM	(30°-60°)	4176.5	7.9	B3/5000		
BH	(60°-80°)	2456.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	247.8	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°	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7
2.5°	6504.7	6461.8	6416.1	6290.3	6156.0	6004.5	5787.3	5578.7	5301.5	5292.9	5087.1
5°	8308.0	8279.5	8076.6	7959.4	7647.9	7233.5	6881.9	6336.1	5830.2	5770.2	5370.1
7.5°	9965.7	9854.2	9777.0	9565.5	9256.9	8725.3	8045.1	7307.8	6461.8	6381.8	5718.7
10°	11214.6	11203.1	11163.1	10980.2	10748.7	10220.0	9465.5	8408.1	7262.0	7104.9	6141.7
12.5°	12149.1	12157.7	12152.0	12149.1	11983.4	11534.7	10717.3	9602.7	8070.8	7959.4	6630.4
15°	12763.6	12849.3	12883.6	13026.5	13040.8	12740.7	12037.7	10757.3	8982.5	8816.8	7156.3
17.5°	13169.4	13212.3	13372.3	13615.2	13812.4	13758.1	13132.3	11826.2	9914.2	9637.0	7702.2
20°	13558.1	13632.4	13755.3	14086.8	14435.5	14595.5	14155.4	12920.8	10837.3	10660.1	8305.2
22.5°	14366.9	14472.6	14515.5	14684.1	14981.3	15264.3	15064.2	13969.6	11849.0	11609.0	8945.4
25°	15735.8	15847.3	15727.3	15687.3	15784.4	15924.5	15881.6	14958.5	12803.6	12460.6	9551.3
27.5°	17519.2	17533.5	17299.1	17076.2	16836.2	16764.7	16633.2	15835.9	13632.4	13346.6	10160.0
30°	19434.0	19365.4	18976.8	18573.8	18168.0	17767.8	17390.6	16681.8	14555.5	14226.8	10757.3
32.5°	21211.7	21174.5	20743.0	20117.1	19431.2	19053.9	18290.8	17536.3	15544.4	15227.1	11371.8
35°	22543.5	22597.8	22123.4	21440.3	20691.5	20357.1	19394.0	18433.7	16567.5	16221.7	12040.5
37.5°	23489.4	23460.9	23040.8	22449.2	21791.8	21500.3	20682.9	19414.0	17667.8	17336.3	12772.2
40°	23826.7	23809.5	23498.0	23066.5	22649.2	22546.3	22031.9	20471.5	18928.2	18539.5	13652.4
42.5°	23612.3	23649.5	23443.7	23326.5	23249.4	23323.7	23372.3	21857.6	20302.8	19945.6	14607.0
45°	22955.0	22935.0	22906.4	23097.9	23532.3	24021.0	24698.4	23166.5	21797.5	21511.8	15887.3
47.5°	21780.4	21923.3	21994.7	22523.5	23472.3	24629.8	26224.5	24921.3	23966.7	23718.1	17839.3
50°	20137.1	20251.4	20674.4	21614.6	23029.3	24858.4	27716.3	27790.7	27584.9	27119.0	19959.9
52.5°	17570.6	17747.8	18619.5	20342.9	22120.5	24764.1	28619.5	30251.3	30522.9	30174.2	22049.0
55°	14698.4	14947.1	15867.3	18127.9	20868.7	24249.7	29242.5	31677.5	32760.6	32437.7	24061.0
57.5°	11886.2	12149.1	13095.1	15284.3	18685.2	23112.2	29651.2	33266.5	35807.2	35387.1	26564.6
60°	8908.2	9182.6	9994.2	12249.2	15575.8	20888.7	29374.0	34644.0	38850.9	38670.9	29071.0
62.5°	5747.3	6050.3	6756.2	8622.4	11971.9	17850.7	27890.7	35404.2	41485.9	41268.7	30900.1
65°	3501.0	3535.3	3924.0	5352.9	8193.7	13821.0	24498.3	34395.4	42874.9	42809.2	31457.4
67.5°	2263.5	2317.8	2495.0	3206.6	4912.8	9599.8	19588.4	31065.9	42063.2	42040.4	30305.6
70°	1912.0	1929.1	2009.1	2163.5	2855.1	5821.6	13755.3	25758.7	38979.5	38979.5	27536.3
72.5°	1709.1	1731.9	1760.5	1809.1	2037.7	3298.1	8208.0	20051.3	33655.2	33878.1	23438.0
75°	1551.9	1546.1	1563.3	1571.9	1737.6	2154.9	4244.0	14829.9	26035.9	25590.0	16973.3
77.5°	1328.9	1337.5	1328.9	1366.1	1534.7	1640.5	2154.9	9951.4	15778.7	15201.4	8519.5
80°	1091.7	1106.0	1120.3	1143.2	1311.8	1246.1	1294.6	4535.6	5835.9	5713.0	2632.2
82.5°	820.2	840.2	863.1	917.4	1031.7	823.1	817.4	1937.7	2106.3	1929.1	968.8
85°	331.5	391.5	591.6	645.9	648.8	451.6	503.0	808.8	860.2	840.2	380.1
87.5°	77.2	91.5	191.5	288.7	265.8	168.6	185.8	262.9	300.1	277.2	128.6
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°	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7	4895.7
2.5°	4992.8	4892.8	4721.3	4589.9	4495.5	4412.7	4361.2	4329.8	4318.4	4315.5	4318.4
5°	5161.4	4984.3	4712.8	4541.3	4447.0	4392.7	4361.2	4358.4	4361.2	4364.1	4355.5
7.5°	5392.9	5138.6	4784.2	4624.2	4552.7	4512.7	4498.4	4492.7	4495.5	4492.7	4492.7
10°	5701.6	5352.9	4924.2	4758.5	4698.5	4652.7	4629.9	4615.6	4604.1	4592.7	4587.0
12.5°	6041.7	5590.1	5075.7	4915.7	4829.9	4758.5	4707.0	4669.9	4644.2	4618.4	4612.7
15°	6421.8	5841.6	5244.3	5021.4	4898.5	4792.8	4704.2	4644.2	4598.4	4561.3	4558.4
17.5°	6784.8	6078.8	5358.6	5070.0	4889.9	4741.3	4624.2	4541.3	4484.1	4435.5	4429.8
20°	7173.4	6304.6	5410.1	5038.6	4804.2	4624.2	4469.8	4369.8	4304.1	4249.8	4241.2
22.5°	7565.0	6496.1	5404.4	4938.5	4655.6	4444.1	4281.2	4175.5	4098.3	4044.0	4024.0
25°	7939.4	6650.4	5332.9	4778.5	4449.8	4229.8	4064.0	3966.8	3898.2	3832.5	3832.5
27.5°	8276.6	6741.9	5198.6	4584.1	4238.3	4006.8	3875.4	3786.8	3723.9	3681.0	3655.3
30°	8608.1	6784.8	5015.7	4338.4	4015.4	3818.2	3712.5	3661.0	3603.9	3555.3	3549.6
32.5°	8905.4	6776.2	4787.1	4098.3	3803.9	3663.9	3621.0	3581.0	3521.0	3452.4	3435.2
35°	9194.0	6719.0	4515.6	3835.4	3626.7	3572.4	3583.9	3526.7	3418.1	3332.4	3318.1
37.5°	9508.4	6616.1	4218.3	3621.0	3478.1	3529.6	3558.1	3432.4	3255.2	3120.9	3089.4
40°	9871.3	6499.0	3909.7	3406.7	3360.9	3489.6	3489.6	3258.1	3015.1	2932.3	2909.4
42.5°	10297.2	6401.8	3652.5	3226.6	3263.8	3392.4	3378.1	3026.6	2926.5	2883.7	2872.2
45°	10971.6	6367.5	3386.7	3069.4	3183.8	3278.1	3160.9	2946.5	2889.4	2855.1	2843.7
47.5°	12037.7	6407.5	3152.3	2952.3	3092.3	3163.7	2918.0	2892.2	2852.2	2803.6	2797.9
50°	13026.5	6370.4	2986.6	2886.5	3012.3	3026.6	2817.9	2826.5	2803.6	2749.3	2737.9
52.5°	13835.3	6253.2	2880.8	2852.2	2943.7	2786.5	2723.6	2755.1	2746.5	2677.9	2666.5
55°	14724.1	6181.7	2829.4	2852.2	2898.0	2577.9	2635.0	2680.8	2669.3	2620.7	2617.9
57.5°	15801.6	6196.0	2792.2	2860.8	2852.2	2472.1	2546.4	2600.7	2597.9	2583.6	2583.6
60°	16904.7	6201.7	2735.1	2857.9	2797.9	2389.2	2455.0	2532.1	2537.9	2546.4	2546.4
62.5°	17270.6	5953.1	2623.6	2806.5	2677.9	2309.2	2369.2	2475.0	2469.3	2492.1	2495.0
65°	16587.5	5264.3	2457.8	2689.3	2523.6	2252.1	2303.5	2400.7	2369.2	2429.3	2440.7
67.5°	15098.5	4355.5	2200.6	2477.8	2352.1	2192.0	2260.6	2297.8	2240.6	2357.8	2360.7
70°	13049.4	3401.0	1874.8	2177.8	2157.7	2129.2	2226.3	2169.2	2089.2	2232.1	2203.5
72.5°	10911.6	2597.9	1497.6	1780.5	1897.7	2034.9	2166.3	2003.4	1892.0	1934.8	1883.4
75°	8196.6	1920.5	1203.2	1394.7	1580.4	1900.5	2112.0	1803.4	1631.9	1591.9	1580.4
77.5°	4178.3	1254.6	900.3	1043.1	1186.0	1717.6	2037.7	1569.0	1351.8	1288.9	1260.4
80°	1491.8	780.2	634.5	720.2	800.2	1477.6	1780.5	1297.5	1048.9	1037.4	1048.9
82.5°	691.6	503.0	425.8	471.6	474.4	986.0	1357.5	968.8	797.4	1211.8	1023.1
85°	297.2	251.5	240.1	234.4	217.2	440.1	763.1	520.1	811.7	363.0	334.4
87.5°	88.6	100.0	88.6	65.7	48.6	48.6	77.2	28.6	20.0	14.3	14.3
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)