

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: P651145

Luminaire Tested: **GALN-SA9C-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53906.4 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

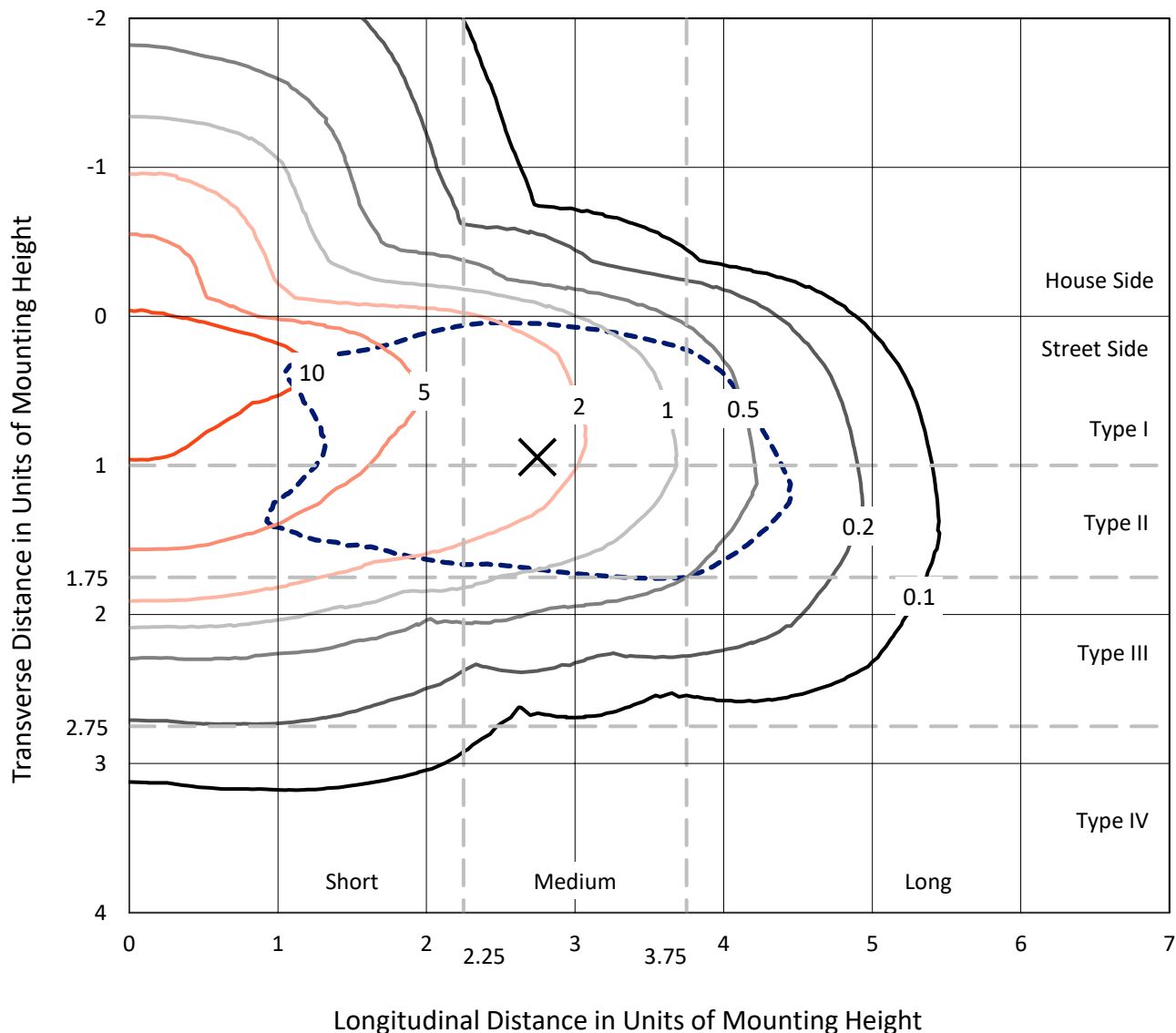
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

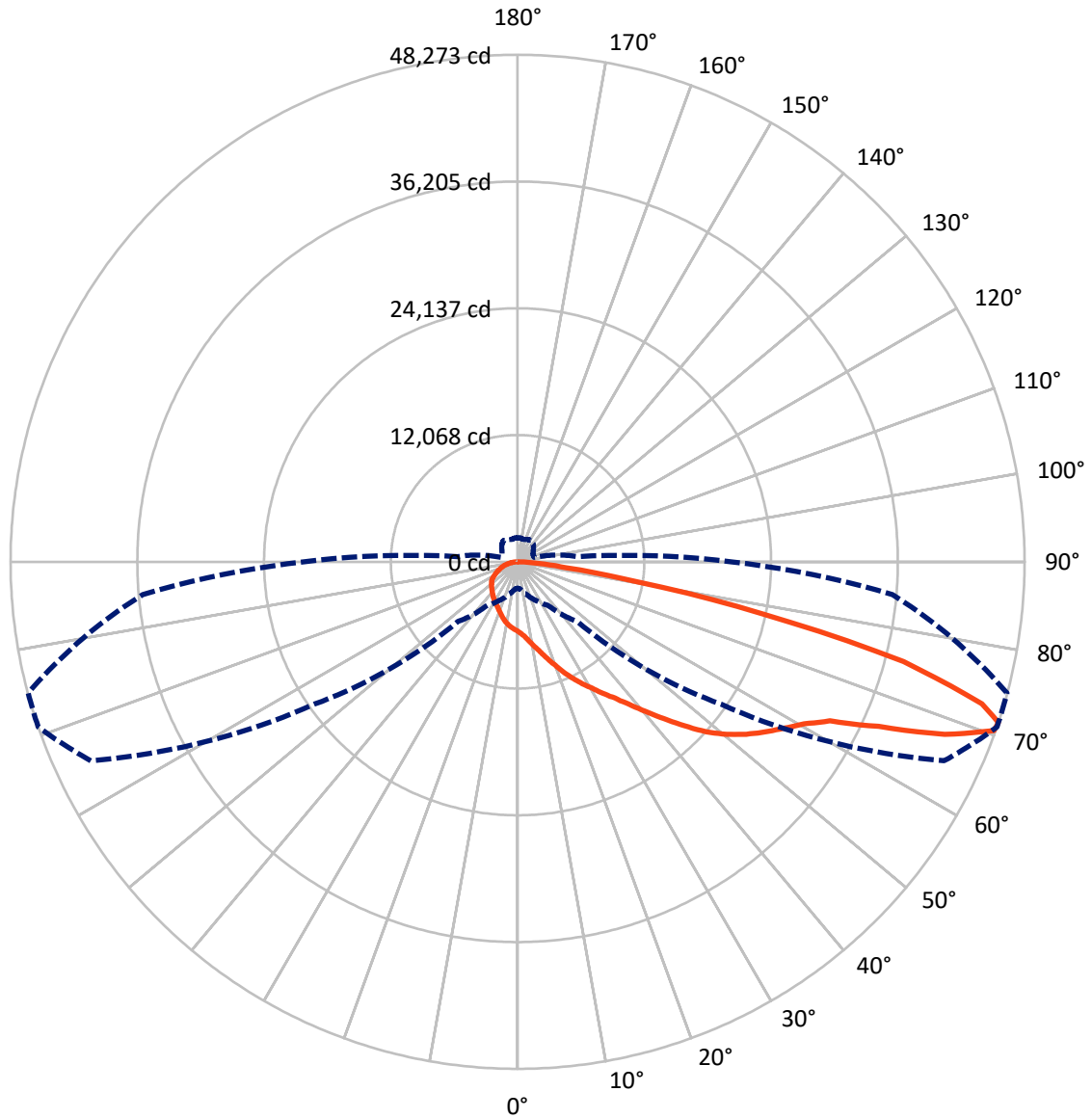
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9694.9	0.0	9694.9
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	44211.5	0.0	44211.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	53906.4	0.0	53906.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.3	1.2
10°-20°	2158.2	4.0
20°-30°	3771.7	7.0
30°-40°	5609.9	10.4
40°-50°	8265.4	15.3
50°-60°	11571.7	21.5
60°-70°	12942.5	24.0
70°-80°	7905.8	14.7
80°-90°	1017.0	1.9
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°	53906.4	100.0
0°-180°	53906.4	100.0

Coefficient of Utilization

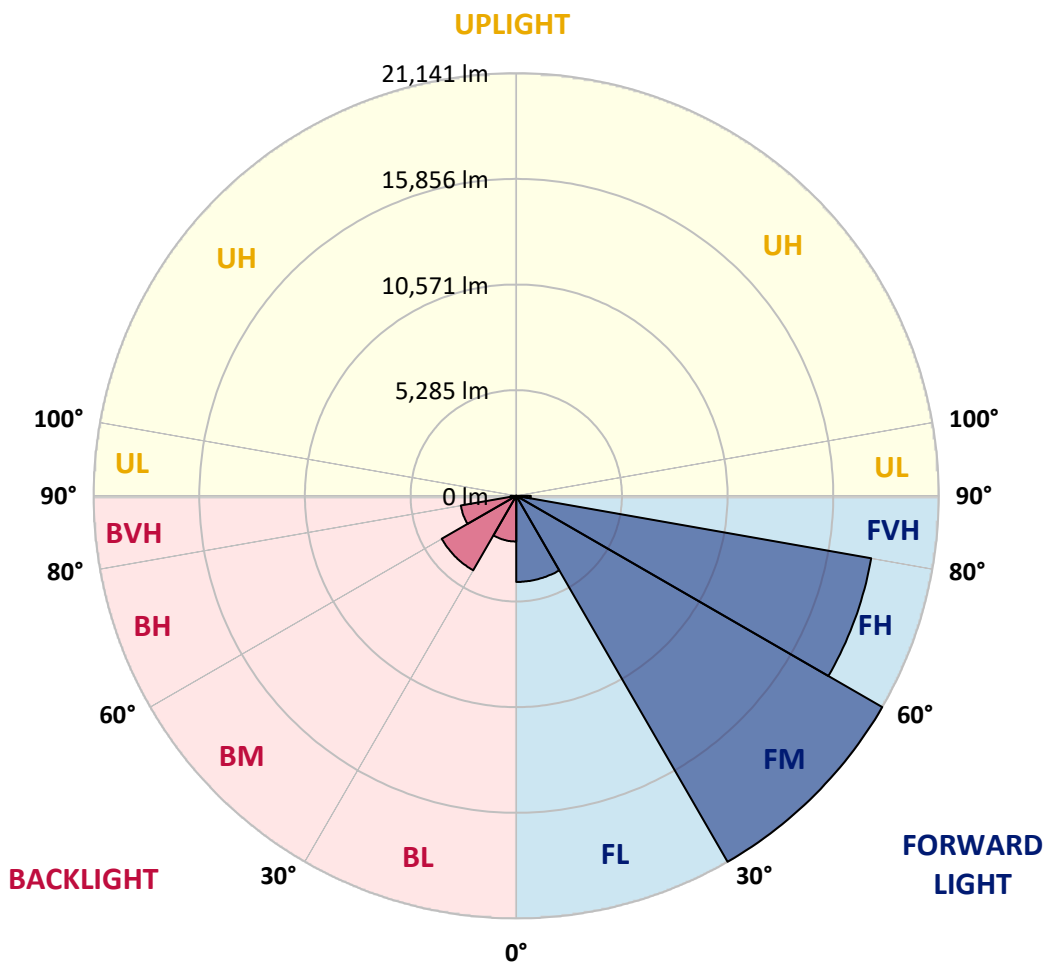


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4307.2	8.0			
FM (30°-60°)	21141.0	39.2			
FH (60°-80°)	18031.5	33.4			G5
FVH (80°-90°)	731.8	1.4			G4/750
BL (0°-30°)	2287.0	4.2	B3/2500		
BM (30°-60°)	4305.9	8.0	B3/5000		
BH (60°-80°)	2816.8	5.2	B4/5000		G4/5000
BVH (80°-90°)	285.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0
2.5°	7344.8	7309.2	7312.2	7261.9	7196.7	7125.5	7024.8	6935.9	6864.8	6823.4	6701.8
5°	8138.9	8103.3	8058.8	7949.2	7901.8	7727.0	7504.8	7303.3	7149.3	7063.3	6820.3
7.5°	8781.7	8772.9	8761.0	8698.8	8577.4	8334.4	8144.7	7795.1	7567.0	7404.1	6989.3
10°	9178.8	9193.6	9202.5	9214.3	9164.0	9036.5	8775.8	8334.4	8044.0	7836.6	7208.5
12.5°	9380.3	9395.1	9445.4	9555.0	9623.2	9608.4	9395.1	8962.5	8562.5	8289.9	7442.6
15°	9504.6	9528.4	9617.3	9762.4	9990.6	10135.7	10032.0	9632.1	9193.6	8870.6	7721.1
17.5°	9641.0	9667.6	9765.4	9972.8	10272.1	10586.1	10698.7	10355.0	9878.0	9492.9	8032.1
20°	9718.0	9753.6	9892.9	10165.4	10515.0	10971.3	11344.6	11163.9	10642.4	10215.8	8390.7
22.5°	9842.5	9872.1	9990.6	10281.0	10698.7	11270.5	11990.5	11952.0	11492.8	10941.7	8784.7
25°	10180.2	10227.7	10286.9	10461.7	10864.6	11575.7	12526.8	12793.4	12316.4	11700.2	9146.2
27.5°	10817.2	10855.7	10852.8	10876.5	11104.6	11839.3	12991.9	13626.0	13134.1	12467.5	9495.8
30°	11543.1	11557.9	11569.8	11516.4	11566.8	12109.0	13418.6	14449.6	13957.8	13255.6	9800.9
32.5°	12426.0	12455.6	12354.9	12218.6	12177.2	12508.9	13771.1	15273.2	14932.5	14055.5	10103.2
35°	13469.0	13546.0	13341.5	13101.5	12932.6	13083.8	14245.2	16114.7	15931.0	15077.7	10503.2
37.5°	14660.0	14754.8	14565.2	14094.1	13854.1	13895.6	14864.4	17154.6	17193.2	16242.1	11098.7
40°	15634.7	15759.2	15765.1	15098.5	14734.1	14781.4	15649.6	18274.6	18716.0	17682.0	11800.8
42.5°	16277.6	16399.2	16526.6	16135.4	15753.3	16022.9	16565.1	19489.3	20428.6	19430.1	12781.5
45°	16982.8	17092.4	17163.5	16985.8	16772.5	17471.7	17670.2	20781.1	22253.6	21382.6	13854.1
47.5°	17800.5	17922.0	17990.2	17821.3	17741.3	18742.7	18861.3	21987.0	24203.1	23278.8	15039.2
50°	18890.9	18982.7	18947.1	18840.5	18822.8	19717.5	20004.9	23115.8	25812.0	25320.2	16268.8
52.5°	20247.8	20357.4	20395.9	20244.9	20176.7	20413.8	20926.4	24143.9	27275.6	27074.1	17581.3
55°	21068.6	21243.3	21830.0	22067.0	22230.0	21314.5	21918.8	25278.7	28588.1	28922.9	18991.6
57.5°	20016.7	20241.9	21554.4	22739.5	24271.3	23566.2	23326.1	26463.8	29900.7	30715.4	20680.4
60°	17450.9	17501.3	19193.0	21376.6	24458.0	26460.8	26262.3	28348.2	31322.8	32522.7	22905.5
62.5°	12106.0	12212.7	14212.6	17696.8	22152.9	27503.7	31257.6	31601.3	33361.2	35227.8	26167.5
65°	6242.7	6103.4	7925.5	11122.4	16701.3	25026.8	35304.8	37583.2	37781.8	39458.7	30759.8
67.5°	3842.8	3905.0	4758.3	6494.5	9875.0	18188.6	34881.1	44892.5	43846.6	44652.5	35023.4
70°	2885.8	2962.8	3549.4	4444.2	6020.5	10399.5	28051.9	46664.2	48124.9	47917.5	36321.0
71°	2509.5	2589.5	3199.8	4044.2	5057.5	8026.3	23634.3	44809.5	48273.1	48237.5	35832.2
72.5°	2139.2	2189.5	2666.6	3425.0	4263.4	5626.4	17756.1	40187.5	46213.9	47396.1	34087.1
75°	1679.9	1718.4	1931.8	2613.2	3356.9	3454.7	9528.4	30128.8	37956.5	40208.3	28377.8
77.5°	1368.8	1395.5	1505.1	1940.6	2589.5	2447.3	4998.2	19610.9	23779.5	26046.0	16716.1
80°	1087.3	1117.0	1182.2	1315.5	1940.6	1745.1	2385.1	9937.3	11486.8	11463.1	6672.2
82.5°	844.4	853.3	930.3	965.9	1327.4	1238.5	1291.8	4207.2	4660.5	4814.6	2408.8
85°	533.3	559.9	823.7	740.7	794.1	725.9	637.0	1671.0	2059.2	2029.5	962.9
87.5°	163.0	171.8	278.5	314.0	352.5	317.1	234.1	491.8	601.5	651.9	240.0
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°	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0	6616.0
2.5°	6654.5	6621.9	6506.3	6411.5	6322.6	6224.8	6141.9	6118.2	6097.4	6088.6	6085.6
5°	6716.6	6618.9	6390.8	6204.1	6056.0	5919.7	5833.8	5795.2	5756.7	5756.7	5768.6
7.5°	6805.5	6627.8	6275.2	5996.8	5810.0	5682.6	5620.5	5614.5	5623.4	5632.3	5635.3
10°	6903.3	6621.9	6106.3	5759.7	5593.7	5534.5	5537.5	5587.9	5635.3	5670.8	5676.8
12.5°	6998.1	6586.3	5907.9	5537.5	5430.8	5442.7	5525.6	5638.2	5730.1	5780.4	5783.4
15°	7104.9	6530.0	5667.8	5327.1	5291.6	5383.4	5537.5	5709.3	5848.6	5931.6	5940.4
17.5°	7193.7	6435.2	5416.0	5122.7	5167.1	5336.0	5549.3	5771.5	5940.4	6044.1	6061.9
20°	7294.4	6313.7	5155.2	4927.2	5054.6	5282.7	5525.6	5765.6	5940.4	6041.2	6064.9
22.5°	7374.4	6141.9	4906.4	4767.1	4953.8	5217.5	5445.6	5638.2	5780.4	5833.8	5869.3
25°	7407.0	5925.6	4672.3	4636.8	4873.8	5110.8	5264.9	5374.5	5419.0	5413.0	5427.9
27.5°	7389.3	5676.8	4470.8	4533.1	4773.1	4944.9	5021.9	5013.0	4933.1	4859.0	4894.5
30°	7315.2	5380.5	4302.0	4426.4	4642.7	4737.5	4725.7	4610.1	4459.1	4319.8	4328.6
32.5°	7181.9	5060.5	4145.0	4305.0	4459.1	4500.5	4420.5	4269.4	4053.1	3872.4	3845.7
35°	7069.3	4755.3	4005.7	4165.7	4275.3	4254.6	4177.6	3982.1	3786.4	3626.5	3599.8
37.5°	7051.4	4494.6	3872.4	4008.7	4070.9	4041.3	3946.5	3780.5	3709.4	3588.0	3573.2
40°	7146.3	4310.9	3736.1	3842.8	3872.4	3848.7	3745.0	3650.2	3715.4	3685.8	3685.8
42.5°	7404.1	4213.1	3614.6	3676.9	3700.6	3718.3	3644.2	3564.2	3644.2	3508.0	3463.5
45°	7812.9	4216.1	3505.0	3513.9	3585.0	3647.2	3596.9	3478.4	3436.8	3164.3	3110.9
47.5°	8414.4	4316.8	3416.1	3359.8	3487.2	3590.9	3519.8	3347.9	3164.3	2983.5	2951.0
50°	9116.5	4497.6	3336.2	3199.8	3356.9	3519.8	3466.5	3265.0	3075.4	2965.8	2945.0
52.5°	9895.8	4725.7	3238.4	3022.0	3196.9	3487.2	3478.4	3253.2	2992.4	2918.4	2900.6
55°	10858.7	4950.9	3116.9	2814.7	3054.7	3460.5	3445.7	3155.4	2974.6	2921.3	2915.4
57.5°	11978.6	5276.8	2942.1	2604.3	2891.7	3351.0	3318.3	3096.1	2915.4	2876.9	2873.9
60°	13783.0	5783.4	2693.2	2411.7	2725.8	3158.4	3199.8	2995.4	2820.6	2811.7	2808.8
62.5°	16156.2	6494.5	2435.5	2213.2	2533.2	2909.4	3028.0	2859.1	2719.9	2764.3	2770.3
65°	19433.1	7093.0	2168.8	2044.3	2319.9	2669.5	2865.0	2731.7	2607.3	2693.2	2693.2
67.5°	21569.2	7104.9	1925.8	1869.5	2103.6	2468.0	2693.2	2580.6	2462.1	2607.3	2613.2
70°	21124.8	6224.8	1724.4	1685.9	1893.3	2251.7	2503.6	2414.7	2278.4	2408.8	2361.4
71°	20407.8	5736.0	1644.3	1614.7	1810.3	2148.0	2414.7	2340.6	2204.3	2290.2	2263.6
72.5°	19264.2	4980.5	1514.0	1519.9	1685.9	2017.6	2290.2	2213.2	2076.9	2124.4	2115.5
75°	16283.6	4349.4	1294.7	1321.4	1448.8	1795.5	2041.4	1982.2	1842.9	1842.9	1834.0
77.5°	10180.2	3039.9	1075.5	1090.3	1229.5	1537.7	1754.0	1703.6	1570.3	1525.8	1514.0
80°	3798.3	1570.3	841.4	859.2	945.1	1211.8	1451.7	1404.4	1268.1	1217.7	1170.3
82.5°	1436.9	788.1	619.2	604.4	696.3	924.4	1137.7	1081.4	974.8	853.3	817.7
85°	542.2	391.1	379.2	367.3	408.9	548.1	705.2	693.3	580.7	494.8	485.9
87.5°	142.2	127.4	148.1	109.6	115.6	103.7	106.6	44.4	20.8	8.9	5.9
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)