

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: P457400

Luminaire Tested: **GALN-SA8D-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457400
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-SA8D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52540 lumens
Efficiency: N/A
Efficacy: 106.6 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): 493
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

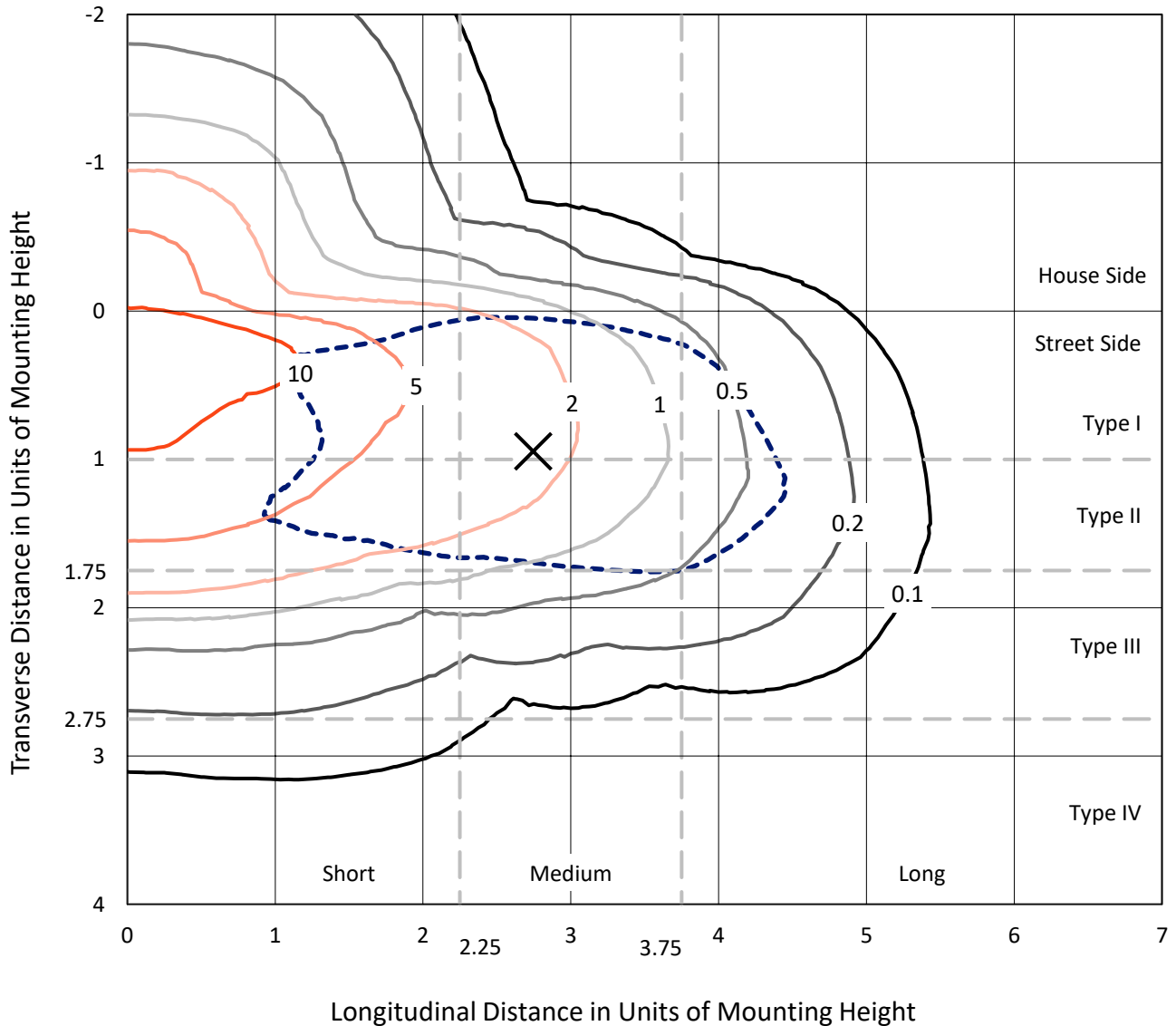




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Iso-Footcandle Lines of Horizontal Illumination

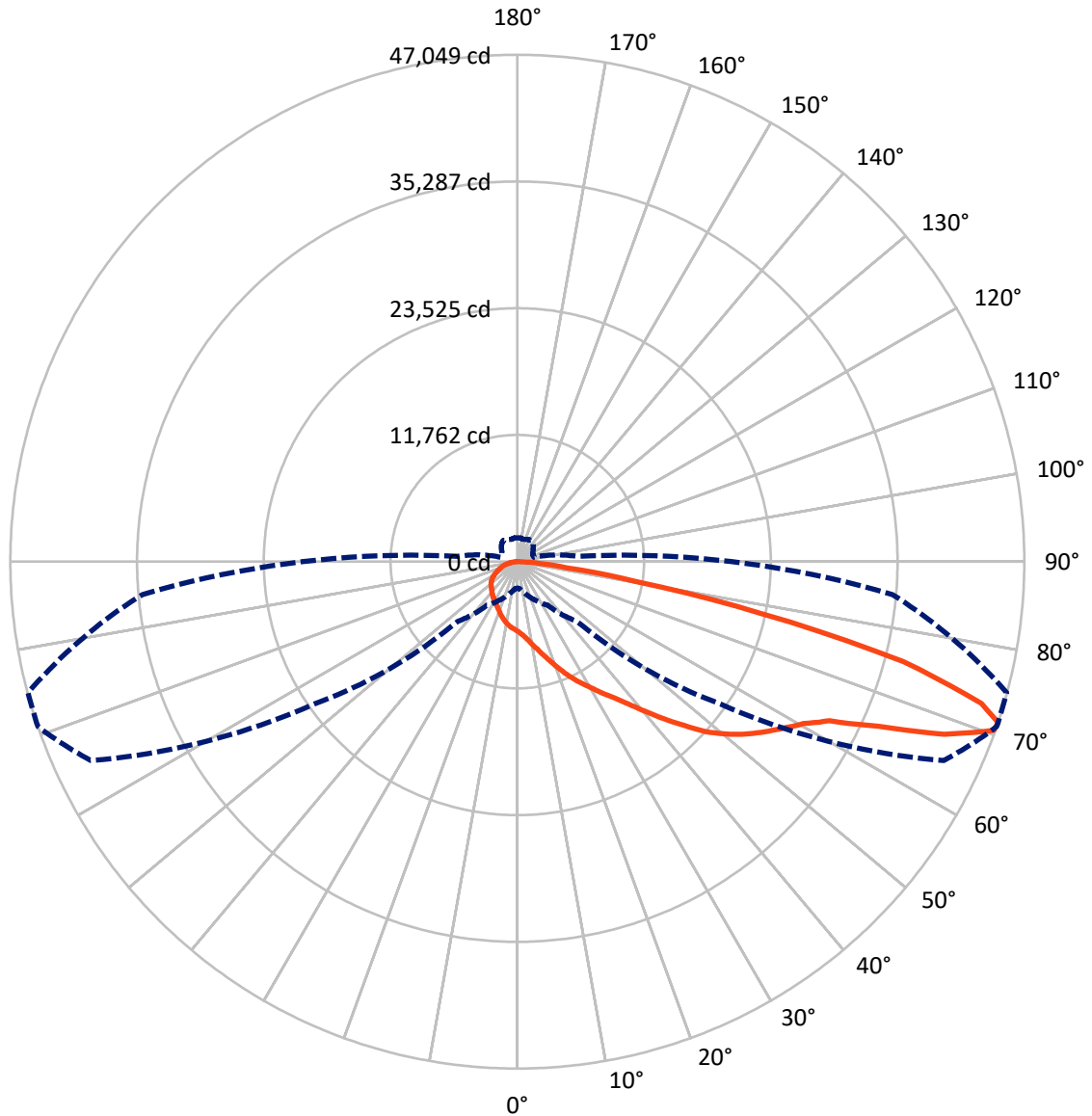
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	9449.2	0.0	9449.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	43090.8	0.0	43090.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	52540.0	0.0	52540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.5	1.2
10°-20°	2103.5	4.0
20°-30°	3676.0	7.0
30°-40°	5467.7	10.4
40°-50°	8055.9	15.3
50°-60°	11278.4	21.5
60°-70°	12614.5	24.0
70°-80°	7705.4	14.7
80°-90°	991.2	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°	52540.0	100.0
0°-180°	52540.0	100.0

Coefficient of Utilization



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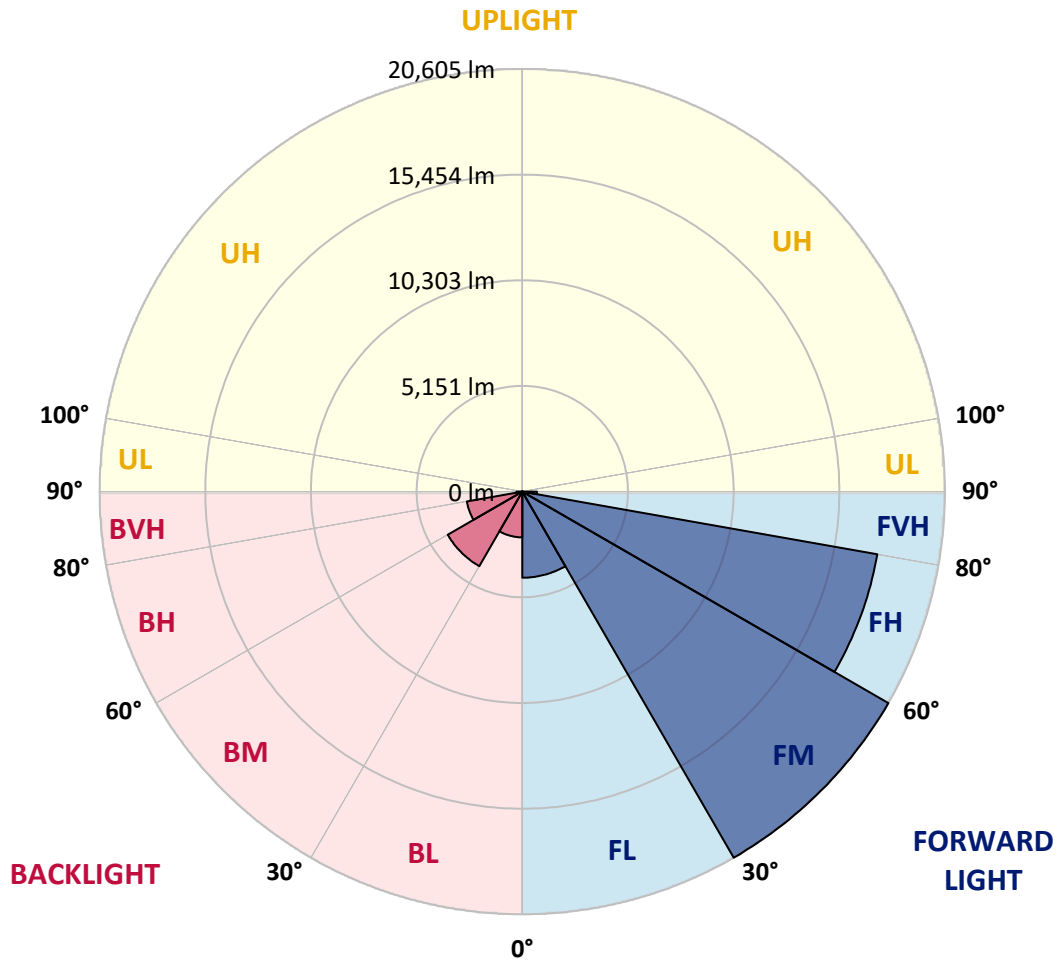
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4198.0	8.0			
FM (30°-60°)	20605.2	39.2			
FH (60°-80°)	17574.5	33.4			G5
FVH (80°-90°)	713.2	1.4			G4/750
BL (0°-30°)	2229.0	4.2	B3/2500		
BM (30°-60°)	4196.8	8.0	B3/5000		
BH (60°-80°)	2745.4	5.2	B4/5000		G4/5000
BVH (80°-90°)	278.0	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°	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2
2.5°	7158.6	7124.0	7126.9	7077.8	7014.2	6944.9	6846.8	6760.1	6690.8	6650.4	6532.0
5°	7932.5	7897.9	7854.6	7747.7	7701.5	7531.1	7314.6	7118.2	6968.0	6884.3	6647.5
7.5°	8559.2	8550.5	8538.9	8478.3	8359.9	8123.1	7938.3	7597.6	7375.2	7216.4	6812.1
10°	8946.1	8960.6	8969.2	8980.8	8931.7	8807.5	8553.4	8123.1	7840.1	7638.0	7025.8
12.5°	9142.5	9156.9	9206.0	9312.9	9379.3	9364.8	9156.9	8735.3	8345.5	8079.8	7253.9
15°	9263.8	9286.9	9373.5	9515.0	9737.3	9878.8	9777.8	9387.9	8960.6	8645.8	7525.4
17.5°	9396.6	9422.6	9517.9	9720.0	10011.7	10317.8	10427.5	10092.5	9627.6	9252.2	7828.6
20°	9471.7	9506.3	9642.1	9907.7	10248.5	10693.2	11057.0	10880.9	10372.6	9956.8	8178.0
22.5°	9593.0	9621.8	9737.3	10020.3	10427.5	10984.8	11686.5	11649.0	11201.4	10664.3	8562.0
25°	9922.2	9968.4	10026.1	10196.5	10589.2	11282.3	12209.2	12469.1	12004.2	11403.6	8914.3
27.5°	10543.0	10580.6	10577.7	10600.8	10823.1	11539.3	12662.6	13280.6	12801.2	12151.5	9255.1
30°	11250.5	11264.9	11276.5	11224.5	11273.6	11802.1	13078.4	14083.3	13604.0	12919.6	9552.5
32.5°	12111.0	12139.9	12041.7	11908.9	11868.5	12191.9	13422.1	14886.1	14554.0	13699.3	9847.1
35°	13127.5	13202.6	13003.3	12769.4	12604.8	12752.1	13884.1	15706.2	15527.2	14695.5	10236.9
37.5°	14288.4	14380.8	14196.0	13736.8	13502.9	13543.3	14487.6	16719.8	16757.4	15830.4	10817.3
40°	15238.4	15359.7	15365.5	14715.8	14360.6	14406.8	15252.9	17811.4	18241.6	17233.8	11501.7
42.5°	15865.1	15983.5	16107.6	15726.4	15353.9	15616.7	16145.2	18995.3	19910.7	18937.6	12457.6
45°	16552.3	16659.2	16728.5	16555.2	16347.3	17028.8	17222.3	20254.4	21689.6	20840.6	13502.9
47.5°	17349.3	17467.7	17534.2	17369.6	17291.6	18267.6	18383.1	21429.7	23589.7	22688.7	14658.0
50°	18412.0	18501.5	18466.9	18362.9	18345.6	19217.7	19497.8	22529.9	25157.7	24678.3	15856.4
52.5°	19734.6	19841.4	19879.0	19731.7	19665.3	19896.3	20395.9	23531.9	26584.2	26387.9	17135.7
55°	20534.5	20704.9	21276.6	21507.6	21666.5	20774.2	21363.3	24637.9	27863.5	28189.8	18510.2
57.5°	19509.3	19728.8	21008.1	22163.1	23656.1	22968.8	22734.9	25793.0	29142.7	29936.9	20156.2
60°	17008.6	17057.7	18706.6	20834.8	23838.0	25790.1	25596.6	27629.6	30528.8	31698.4	22324.9
62.5°	11799.2	11903.1	13852.3	17248.3	21591.4	26806.6	30465.3	30800.3	32515.6	34334.8	25504.2
65°	6084.4	5948.7	7724.6	10840.5	16278.0	24392.5	34409.9	36630.6	36824.0	38458.5	29980.2
67.5°	3745.4	3806.0	4637.7	6329.9	9624.7	17727.6	33997.0	43754.5	42735.2	43520.6	34135.6
70°	2812.6	2887.7	3459.5	4331.6	5867.8	10135.8	27340.8	45481.4	46905.0	46702.9	35400.4
71°	2445.9	2523.9	3118.7	3941.7	4929.3	7822.8	23035.2	43673.7	47049.4	47014.7	34923.9
72.5°	2084.9	2134.0	2598.9	3338.2	4155.4	5483.8	17306.0	39168.9	45042.4	46194.6	33223.1
75°	1637.3	1674.9	1882.8	2547.0	3271.8	3367.1	9286.9	29365.1	36994.4	39189.1	27658.5
77.5°	1334.1	1360.1	1467.0	1891.4	2523.9	2385.2	4871.6	19113.7	23176.7	25385.8	16292.4
80°	1059.8	1088.7	1152.2	1282.1	1891.4	1700.9	2324.6	9685.4	11195.6	11172.5	6503.1
82.5°	823.0	831.7	906.7	941.4	1293.7	1207.1	1259.0	4100.5	4542.4	4692.5	2347.7
85°	519.8	545.8	802.8	721.9	773.9	707.5	620.9	1628.7	2007.0	1978.1	938.5
87.5°	158.8	167.5	271.4	306.1	343.6	309.0	228.1	479.4	586.2	635.3	233.9
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°	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2	6448.2
2.5°	6485.8	6454.0	6341.4	6249.0	6162.4	6067.1	5986.2	5963.1	5942.9	5934.2	5931.3
5°	6546.4	6451.1	6228.8	6046.9	5902.5	5769.6	5685.9	5648.4	5610.8	5610.8	5622.4
7.5°	6633.1	6459.8	6116.2	5844.7	5662.8	5538.6	5478.0	5472.2	5480.9	5489.5	5492.4
10°	6728.4	6454.0	5951.6	5613.7	5452.0	5394.2	5397.1	5446.2	5492.4	5527.1	5532.8
12.5°	6820.8	6419.4	5758.1	5397.1	5293.2	5304.7	5385.6	5495.3	5584.8	5633.9	5636.8
15°	6924.7	6364.5	5524.2	5192.1	5157.4	5247.0	5397.1	5564.6	5700.3	5781.2	5789.9
17.5°	7011.4	6272.1	5278.7	4992.8	5036.2	5200.8	5408.7	5625.3	5789.9	5890.9	5908.2
20°	7109.5	6153.7	5024.6	4802.3	4926.4	5148.8	5385.6	5619.5	5789.9	5888.0	5911.1
22.5°	7187.5	5986.2	4782.0	4646.3	4828.2	5085.3	5307.6	5495.3	5633.9	5685.9	5720.5
25°	7219.3	5775.4	4553.9	4519.3	4750.3	4981.3	5131.5	5238.3	5281.6	5275.8	5290.3
27.5°	7201.9	5532.8	4357.5	4418.2	4652.1	4819.6	4894.7	4886.0	4808.0	4735.8	4770.5
30°	7129.7	5244.1	4192.9	4314.2	4525.0	4617.4	4605.9	4493.3	4346.0	4210.3	4218.9
32.5°	6999.8	4932.2	4039.9	4195.8	4346.0	4386.4	4308.5	4161.2	3950.4	3774.2	3748.2
35°	6890.1	4634.8	3904.2	4060.1	4167.0	4146.7	4071.7	3881.1	3690.5	3534.6	3508.6
37.5°	6872.7	4380.7	3774.2	3907.1	3967.7	3938.8	3846.4	3684.7	3615.4	3497.0	3482.6
40°	6965.1	4201.6	3641.4	3745.4	3774.2	3751.1	3650.1	3557.7	3621.2	3592.3	3592.3
42.5°	7216.4	4106.3	3523.0	3583.6	3606.7	3624.1	3551.9	3473.9	3551.9	3419.0	3375.7
45°	7614.9	4109.2	3416.2	3424.8	3494.1	3554.8	3505.7	3390.2	3349.7	3084.1	3032.1
47.5°	8201.1	4207.4	3329.5	3274.7	3398.8	3499.9	3430.6	3263.1	3084.1	2907.9	2876.2
50°	8885.5	4383.5	3251.6	3118.7	3271.8	3430.6	3378.6	3182.3	2997.4	2890.6	2870.4
52.5°	9644.9	4605.9	3156.3	2945.5	3115.8	3398.8	3390.2	3170.7	2916.6	2844.4	2827.1
55°	10583.4	4825.4	3037.9	2743.3	2977.2	3372.8	3358.4	3075.4	2899.3	2847.3	2841.5
57.5°	11675.0	5143.0	2867.5	2538.3	2818.4	3266.0	3234.2	3017.7	2841.5	2804.0	2801.1
60°	13433.6	5636.8	2624.9	2350.6	2656.7	3078.3	3118.7	2919.5	2749.1	2740.4	2737.5
62.5°	15746.7	6329.9	2373.7	2157.1	2469.0	2835.7	2951.2	2786.6	2650.9	2694.2	2700.0
65°	18940.5	6913.2	2113.8	1992.5	2261.1	2601.8	2792.4	2662.5	2541.2	2624.9	2624.9
67.5°	21022.5	6924.7	1877.0	1822.1	2050.3	2405.5	2624.9	2515.2	2399.7	2541.2	2547.0
70°	20589.3	6067.1	1680.6	1643.1	1845.2	2194.7	2440.1	2353.5	2220.6	2347.7	2301.5
71°	19890.5	5590.6	1602.7	1573.8	1764.4	2093.6	2353.5	2281.3	2148.5	2232.2	2206.2
72.5°	18775.9	4854.2	1475.6	1481.4	1643.1	1966.5	2232.2	2157.1	2024.3	2070.5	2061.8
75°	15870.8	4239.2	1261.9	1287.9	1412.1	1750.0	1989.6	1931.9	1796.2	1796.2	1787.5
77.5°	9922.2	2962.8	1048.2	1062.7	1198.4	1498.7	1709.5	1660.4	1530.5	1487.2	1475.6
80°	3702.0	1530.5	820.1	837.4	921.2	1181.1	1415.0	1368.8	1235.9	1186.8	1140.6
82.5°	1400.5	768.1	603.5	589.1	678.6	901.0	1108.9	1054.0	950.1	831.7	797.0
85°	528.5	381.2	369.6	358.1	398.5	534.2	687.3	675.7	566.0	482.2	473.6
87.5°	138.6	124.2	144.4	106.8	112.6	101.1	104.0	43.3	20.2	8.7	5.8
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)