

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: P647050

Luminaire Tested: **GALN-SA7C-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32498.4 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

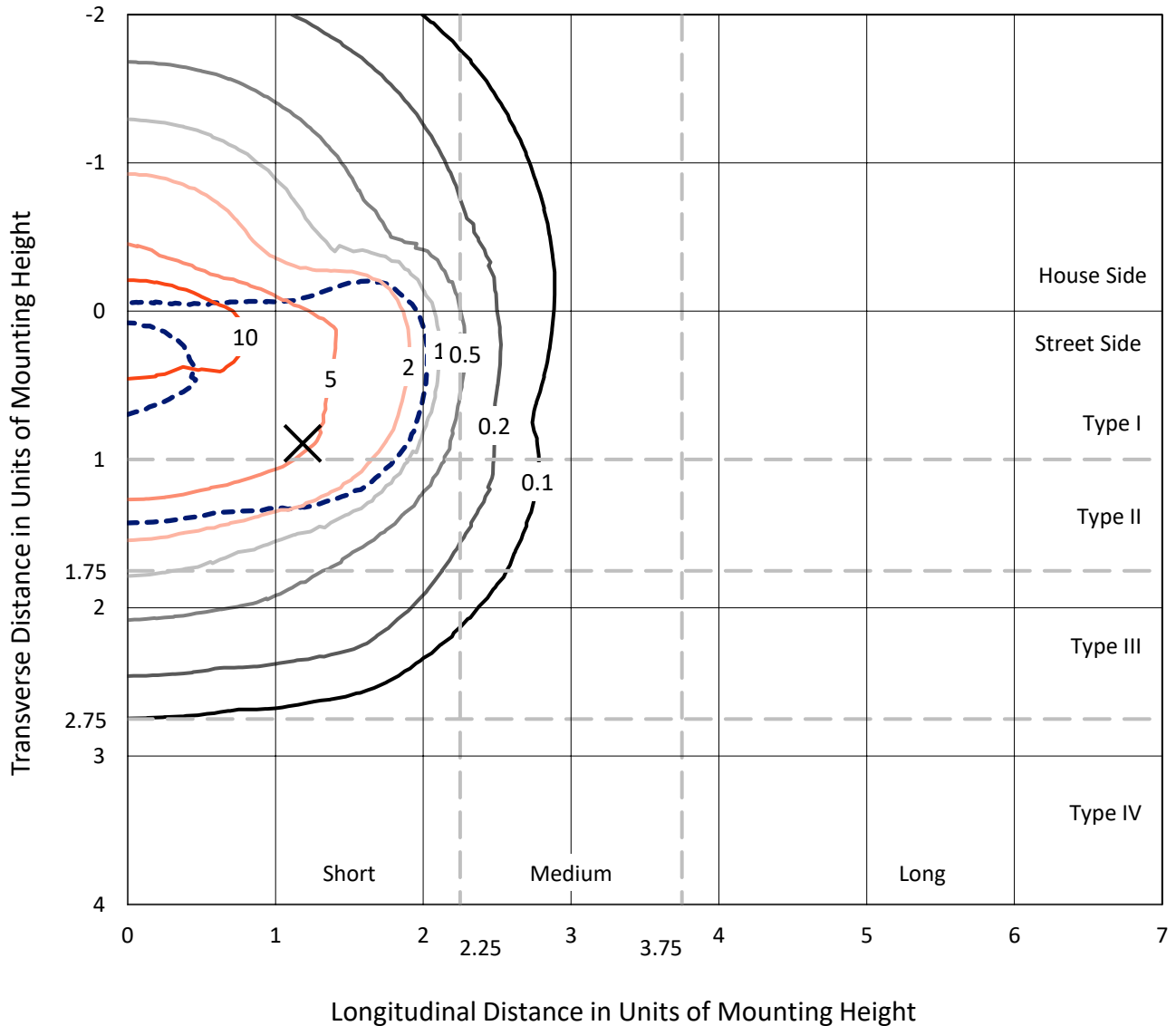
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

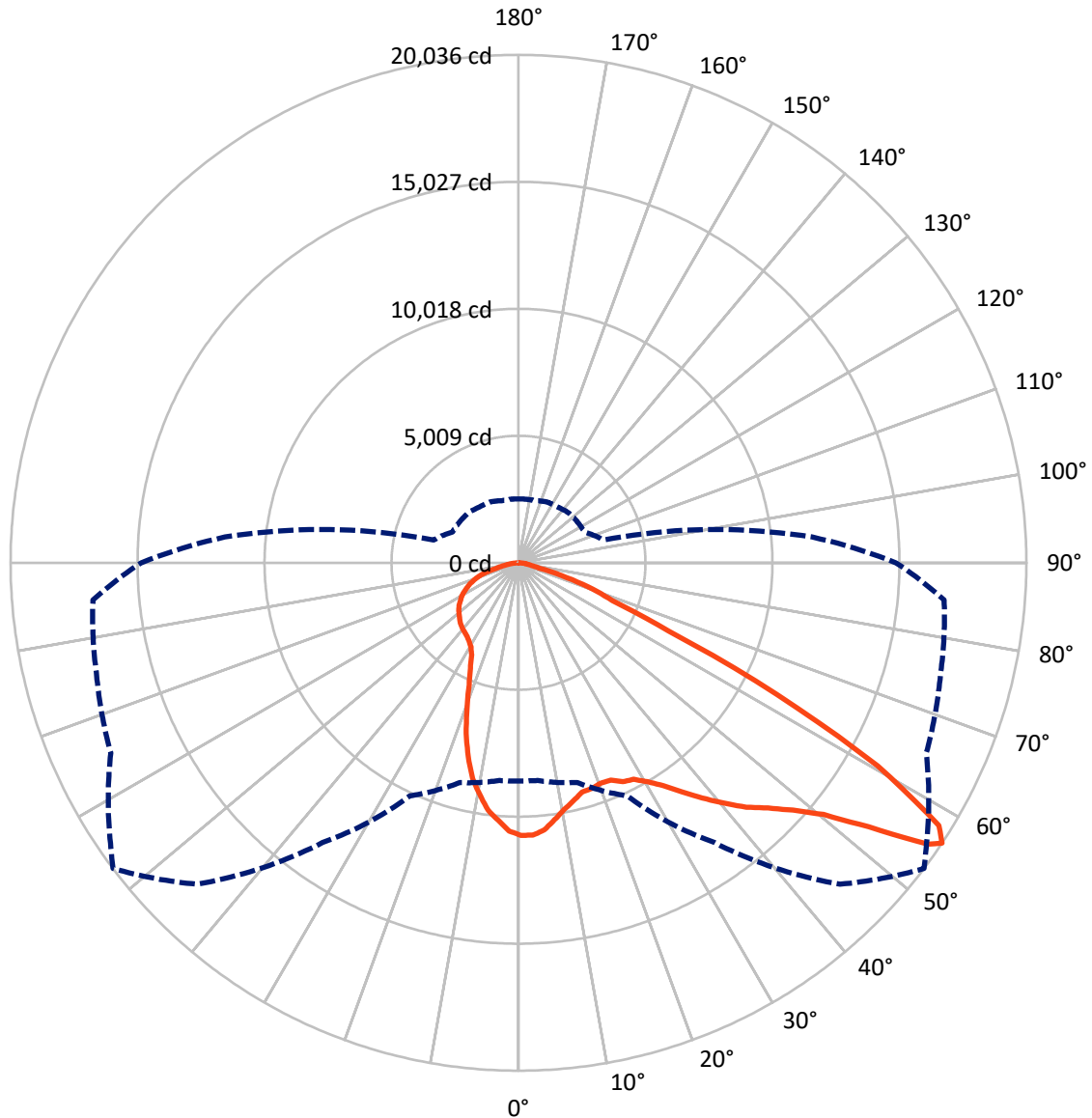
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9483.7	0.0	9483.7
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	23014.7	0.0	23014.7
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	32498.4	0.0	32498.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	951.8	2.9
10°-20°	2377.3	7.3
20°-30°	3505.5	10.8
30°-40°	5008.7	15.4
40°-50°	6893.8	21.2
50°-60°	8146.6	25.1
60°-70°	4341.6	13.4
70°-80°	1101.4	3.4
80°-90°	171.7	0.5
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°	32498.4	100.0
0°-180°	32498.4	100.0

**Coefficient of Utilization**



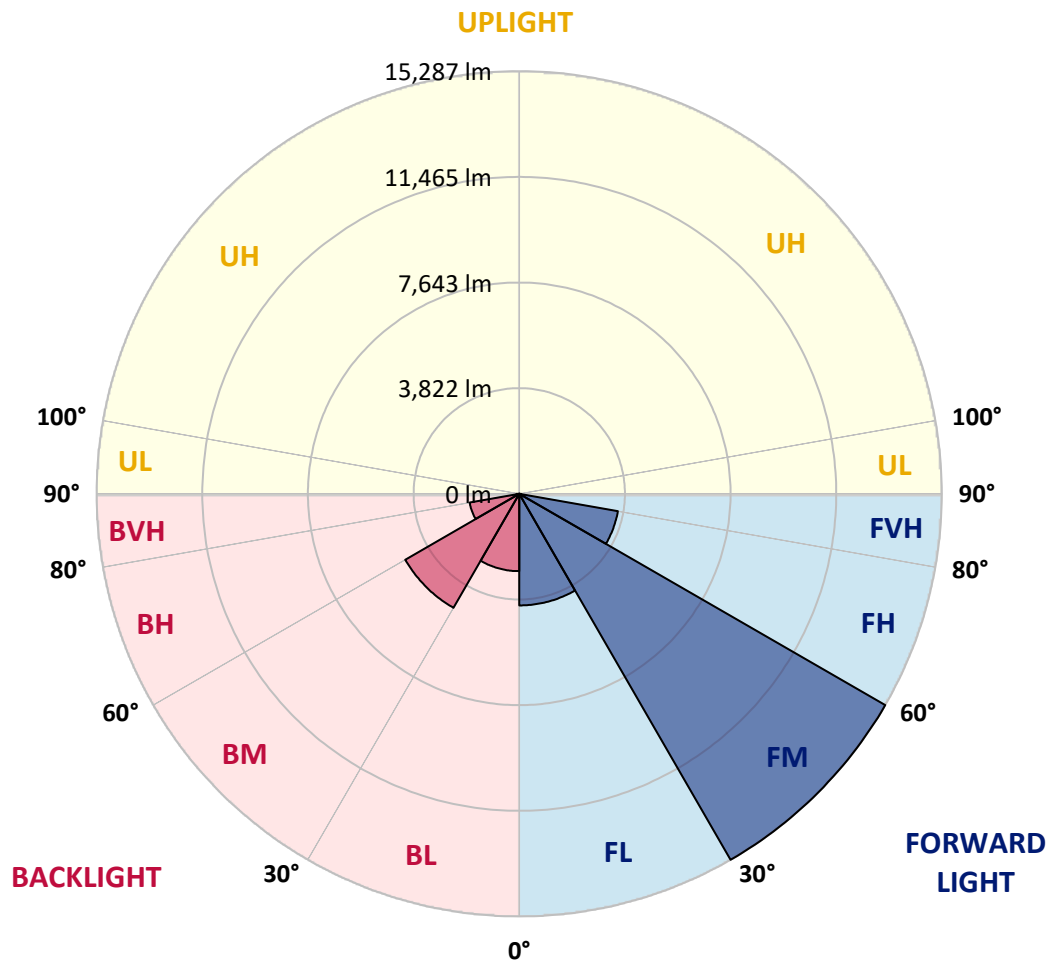
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4037.5	12.4			
FM (30°-60°)	15286.6	47.0			
FH (60°-80°)	3621.5	11.1			G2/5000
FVH (80°-90°)	69.0	0.2			G1/100
BL (0°-30°)	2797.1	8.6	B4/5000		
BM (30°-60°)	4762.4	14.7	B3/5000		
BH (60°-80°)	1821.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	102.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8
2.5°	10618.3	10526.7	10580.8	10560.0	10730.9	10781.0	10755.9	10776.7	10872.7	10826.8	10730.9
5°	9922.1	10051.4	10076.3	10138.9	10239.0	10434.9	10589.1	10630.9	10676.8	10889.3	10868.5
7.5°	9288.4	9376.0	9330.1	9513.6	9730.3	10047.2	10234.8	10268.2	10689.2	10805.9	10893.5
10°	8888.2	8800.7	9009.1	9059.2	9305.1	9667.9	9893.0	10030.5	10414.1	10876.8	10931.0
12.5°	8517.2	8488.0	8613.1	8754.8	9029.9	9405.2	9634.5	9688.7	10280.6	10768.4	11022.8
15°	8242.0	8208.7	8333.8	8438.0	8759.0	9092.5	9384.3	9538.6	10134.8	10705.9	10943.5
17.5°	8025.3	8021.1	8092.0	8279.6	8608.9	8888.2	9359.4	9367.7	10059.7	10801.8	11010.2
20°	8012.8	8008.6	8021.1	8229.6	8529.7	8871.5	9280.1	9355.1	10059.7	10735.1	11014.4
22.5°	8117.0	8050.3	8125.3	8258.7	8475.5	8900.8	9309.3	9476.0	10301.5	11064.4	11202.0
25°	8283.7	8300.4	8342.1	8388.0	8513.0	8967.5	9567.8	9705.4	10585.0	11347.9	11460.5
27.5°	8588.1	8579.7	8596.4	8621.4	8729.8	9029.9	9672.0	10026.4	11177.0	11852.3	11739.8
30°	9034.2	9005.0	9071.7	9159.2	9059.2	9230.1	10018.0	10284.9	11727.3	12361.0	12052.5
32.5°	9438.5	9547.0	9672.0	9709.5	9588.6	9622.0	10476.6	10747.6	12185.9	12986.3	12436.0
35°	9943.0	10030.5	10197.3	10314.0	10293.2	10193.1	11101.9	11460.5	12848.7	13444.9	12840.4
37.5°	10434.9	10539.1	10814.3	11160.3	10968.6	10922.7	11769.0	12065.0	13053.0	13690.9	13136.4
40°	11227.0	11222.8	11698.1	11877.4	12048.3	11969.1	12461.1	12561.1	13161.4	13636.6	13144.8
42.5°	12156.7	12098.4	12581.9	12861.2	13082.2	13090.5	13182.3	13148.9	13211.5	13361.5	13057.2
45°	13040.6	13165.6	13653.3	14153.7	14374.5	14399.6	13790.9	13728.4	13299.0	13282.3	12890.5
47.5°	14120.3	14149.4	14549.7	15208.4	15721.2	15546.1	14578.8	14441.3	13682.5	13811.8	13169.7
50°	14182.8	14399.6	14758.1	15533.5	17109.4	17063.6	15600.3	15341.8	14299.5	14562.2	13949.4
52.5°	12873.8	12823.7	13249.0	14516.4	17005.2	18572.8	17292.9	16675.9	15625.3	15425.2	15212.5
55°	9809.6	9926.3	10301.5	11581.4	14766.4	18593.6	19598.3	19093.8	17042.7	16700.8	16454.9
56°	8604.8	8621.4	8975.8	10143.1	13474.1	17930.7	20036.0	19627.5	17747.2	17226.2	16850.9
57.5°	7133.1	7037.2	7220.7	7858.5	11372.9	16529.9	19556.6	19956.8	18572.8	17793.1	17272.0
60°	5615.6	5594.8	5519.7	5636.4	7187.3	12452.7	16279.8	17180.3	18489.4	17259.5	16542.4
62.5°	4585.9	4481.7	4631.7	4798.5	4994.4	7725.1	11439.6	11969.1	14678.9	13778.5	12427.7
65°	3556.2	3506.1	3693.7	4235.6	4352.4	4906.9	6516.1	6924.6	8667.3	8513.0	7495.8
67.5°	2447.2	2455.5	2618.1	3443.6	4035.6	3985.5	3989.7	4202.3	4523.3	3360.2	2926.6
70°	1550.9	1546.7	1634.2	2217.9	3247.6	3281.0	3114.2	3051.7	2893.3	1750.9	1855.2
72.5°	996.4	967.2	1013.0	1225.7	1680.1	1942.7	2001.1	2038.6	1675.9	1375.7	1492.5
75°	562.8	533.6	516.9	571.1	662.9	767.1	842.1	867.2	971.4	1042.3	1104.8
77.5°	170.9	154.3	187.6	250.2	329.3	441.9	537.8	554.4	654.5	737.9	800.5
80°	75.0	83.4	116.7	166.8	233.5	312.7	379.4	404.4	471.1	533.6	550.3
82.5°	45.9	50.0	79.2	112.6	162.6	221.0	271.0	279.3	346.0	396.0	408.6
85°	16.7	20.8	41.7	66.7	104.2	141.7	141.7	154.3	141.7	141.7	154.3
87.5°	0.0	0.0	4.1	8.3	8.3	12.5	16.7	16.7	20.8	25.0	29.2
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°	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8	10751.8
2.5°	10781.0	10760.1	10726.7	10605.8	10593.4	10555.8	10347.3	10314.0	10347.3	10247.3	10255.7
5°	10760.1	10822.6	10572.5	10451.6	10226.4	10063.9	9876.3	9780.4	9609.4	9501.1	9622.0
7.5°	10851.8	10826.8	10514.1	10251.5	9913.8	9501.1	9171.7	8984.1	8683.9	8600.6	8663.1
10°	10818.5	10685.1	10318.2	9972.1	9334.3	8971.6	8438.0	7921.1	7637.5	7491.7	7470.8
12.5°	10772.6	10735.1	10122.2	9526.1	8854.9	8092.0	7341.6	6853.8	6391.0	6190.9	6220.1
15°	10826.8	10510.0	9755.4	9000.8	8108.7	7108.1	6299.3	5669.8	5348.8	5219.6	5219.6
17.5°	10801.8	10401.5	9580.2	8412.9	7283.2	6099.2	5211.2	4831.8	4698.4	4698.4	4736.0
20°	10814.3	10472.5	9225.9	7825.1	6307.6	5136.2	4490.0	4352.4	4410.8	4431.6	4452.5
22.5°	10885.2	10239.0	8879.9	7178.9	5403.0	4394.1	4077.2	4081.4	4185.6	4298.2	4277.4
25°	10972.7	10147.3	8458.8	6537.0	4710.9	4031.4	3931.4	3918.8	3998.0	4056.4	4064.7
27.5°	10897.6	9988.8	8029.4	5736.5	4143.9	3789.6	3768.7	3777.1	3802.1	3918.8	3881.3
30°	11143.7	10034.7	7491.7	5065.3	3831.3	3710.4	3685.3	3672.8	3710.4	3743.8	3714.6
32.5°	11448.0	9872.1	7091.4	4419.1	3677.0	3652.0	3602.0	3585.3	3606.2	3572.8	3589.5
35°	11581.4	9842.9	6570.3	3956.3	3556.2	3535.2	3506.1	3502.0	3506.1	3476.9	3451.9
37.5°	11656.4	9980.5	5974.1	3743.8	3481.1	3502.0	3435.3	3426.9	3351.9	3368.5	3381.0
40°	11785.6	9767.8	5490.6	3539.5	3435.3	3393.5	3335.2	3322.7	3272.6	3243.4	3272.6
42.5°	11598.0	9705.4	5015.3	3451.9	3368.5	3322.7	3281.0	3210.1	3193.4	3168.4	3151.7
45°	11448.0	9346.8	4590.0	3343.5	3289.3	3264.3	3185.1	3110.1	3047.5	3072.5	3035.0
47.5°	11560.5	9221.8	4168.9	3251.8	3180.9	3151.7	3072.5	3014.2	2951.6	2922.5	2914.1
50°	12010.8	9455.2	3814.6	3185.1	3089.2	3072.5	2968.3	2901.6	2843.2	2822.4	2830.7
52.5°	13086.4	10093.0	3572.8	3047.5	3001.6	2926.6	2868.3	2784.9	2747.3	2680.7	2722.3
55°	14449.6	11131.1	3510.3	2918.2	2893.3	2826.6	2747.3	2684.8	2614.0	2559.7	2547.3
56°	14887.3	11627.2	3460.2	2868.3	2826.6	2789.0	2684.8	2647.3	2534.7	2522.2	2513.9
57.5°	15241.7	12065.0	3468.6	2772.4	2730.6	2697.4	2634.8	2543.1	2468.0	2422.1	2443.0
60°	14441.3	11293.8	3310.1	2626.4	2618.1	2555.6	2468.0	2426.4	2334.6	2280.4	2267.9
62.5°	10735.1	7666.7	2684.8	2438.8	2434.7	2367.9	2267.9	2222.1	2205.4	2130.3	2130.3
65°	6182.6	4806.8	2322.1	2284.6	2251.2	2184.6	2084.5	2047.0	2005.3	1980.3	1959.4
67.5°	2638.9	2493.1	2109.5	2105.3	2067.8	1984.4	1884.4	1826.0	1771.8	1721.8	1746.8
70°	1913.6	1942.7	1905.2	1884.4	1838.5	1734.3	1646.7	1575.9	1492.5	1459.1	1484.2
72.5°	1517.5	1580.0	1634.2	1638.4	1584.2	1463.3	1367.4	1271.5	1179.8	1133.9	1154.8
75°	1150.6	1192.4	1246.5	1259.1	1179.8	1096.4	1004.7	904.7	833.8	779.6	787.9
77.5°	829.6	821.3	871.3	862.9	825.4	767.1	683.7	592.0	512.8	462.8	466.9
80°	567.0	579.5	608.7	604.5	558.7	521.1	458.6	383.5	325.2	283.5	275.1
82.5°	396.0	416.9	441.9	421.1	383.5	346.0	300.2	245.9	200.1	166.8	158.4
85°	141.7	162.6	187.6	200.1	212.6	204.3	170.9	137.6	100.1	83.4	79.2
87.5°	29.2	33.4	37.5	37.5	37.5	33.4	29.2	29.2	25.0	12.5	12.5
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)