

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: P532210

Luminaire Tested: **GALN-SA7C-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532210
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-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 41505 lumens
Efficiency: N/A
Efficacy: 110.1 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

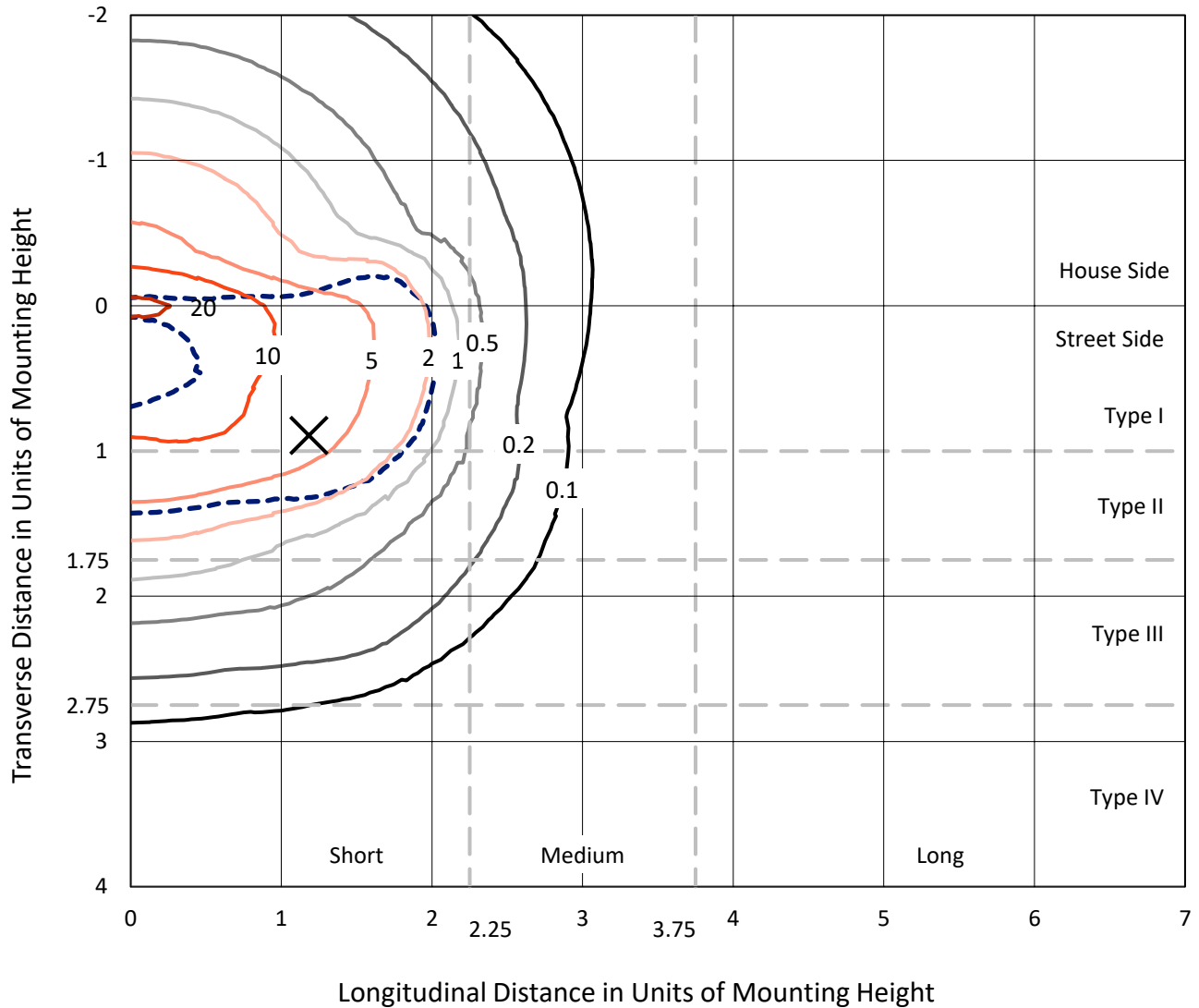
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

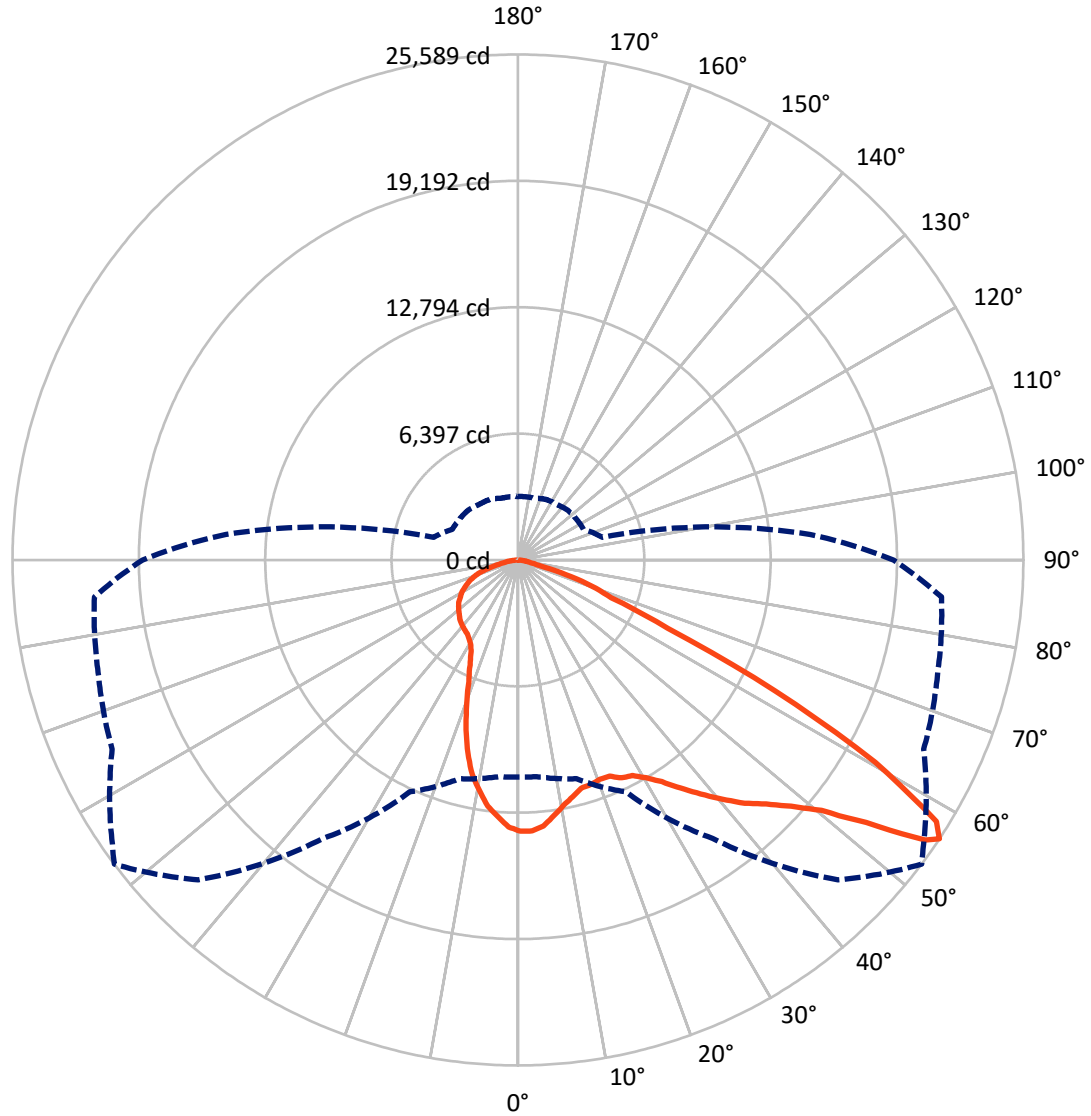
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 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
House Side	Lumens	12112.1	0.0	12112.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	29392.9	0.0	29392.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	41505.0	0.0	41505.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1215.6	2.9
10°-20°	3036.1	7.3
20°-30°	4477.0	10.8
30°-40°	6396.8	15.4
40°-50°	8804.3	21.2
50°-60°	10404.3	25.1
60°-70°	5544.8	13.4
70°-80°	1406.7	3.4
80°-90°	219.3	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°	41505.0	100.0
0°-180°	41505.0	100.0

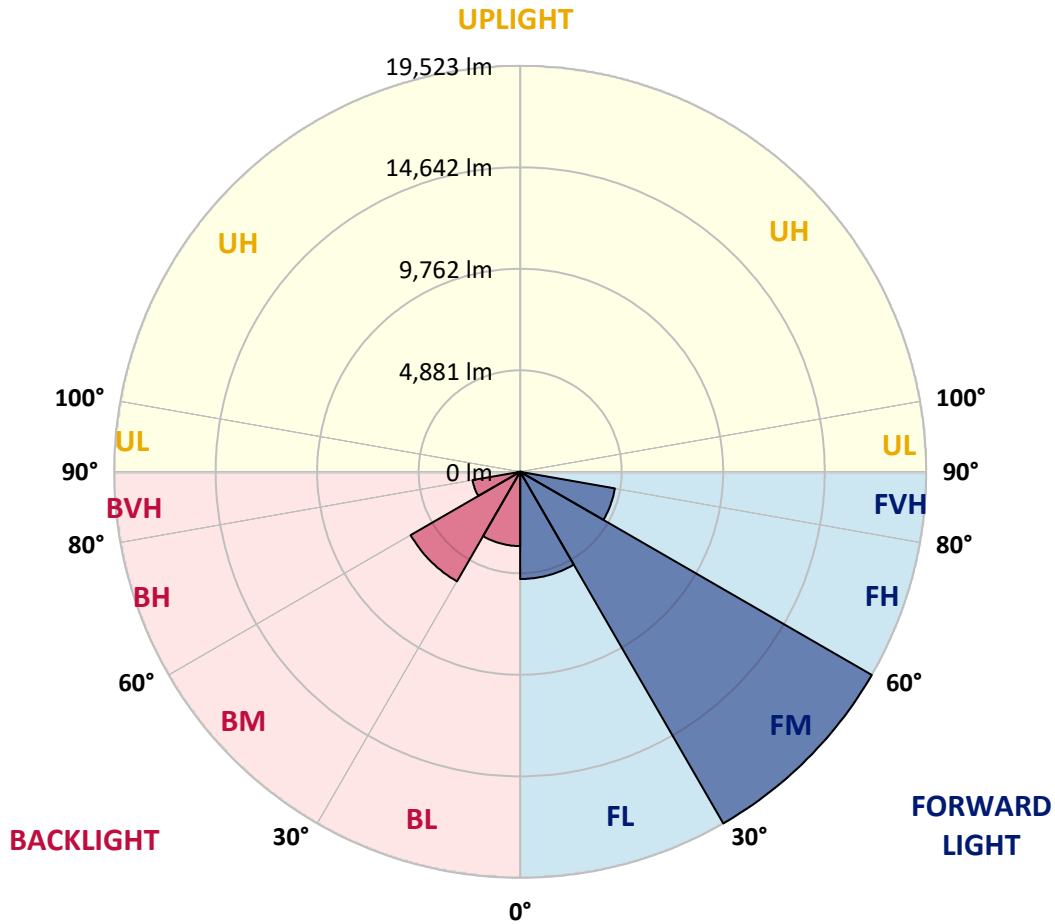


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5156.4	12.4			
FM (30°-60°)	19523.2	47.0			
FH (60°-80°)	4625.2	11.1			G2/5000
FVH (80°-90°)	88.2	0.2			G1/100
BL (0°-30°)	3572.3	8.6	B4/5000		
BM (30°-60°)	6082.3	14.7	B4/8500		
BH (60°-80°)	2326.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	131.2	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°	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5
2.5°	13561.1	13444.0	13513.2	13486.6	13704.9	13768.8	13736.8	13763.4	13885.9	13827.3	13704.9
5°	12671.9	12837.0	12868.9	12948.8	13076.6	13326.8	13523.8	13577.1	13635.7	13907.2	13880.6
7.5°	11862.6	11974.5	11915.9	12150.2	12427.0	12831.7	13071.3	13113.9	13651.6	13800.7	13912.5
10°	11351.5	11239.7	11505.9	11569.8	11883.9	12347.2	12634.7	12810.4	13300.2	13891.2	13960.4
12.5°	10877.6	10840.4	11000.1	11181.1	11532.5	12011.7	12304.6	12373.8	13129.8	13752.8	14077.6
15°	10526.2	10483.6	10643.4	10776.5	11186.5	11612.4	11985.1	12182.1	12943.5	13672.9	13976.4
17.5°	10249.4	10244.0	10334.6	10574.2	10994.8	11351.5	11953.2	11963.8	12847.6	13795.4	14061.6
20°	10233.4	10228.1	10244.0	10510.3	10893.6	11330.2	11852.0	11947.8	12847.6	13710.2	14066.9
22.5°	10366.5	10281.3	10377.2	10547.5	10824.4	11367.5	11889.3	12102.2	13156.5	14130.8	14306.5
25°	10579.5	10600.8	10654.0	10712.6	10872.3	11452.7	12219.4	12395.1	13518.5	14492.9	14636.6
27.5°	10968.2	10957.5	10978.8	11010.7	11149.2	11532.5	12352.5	12805.1	14274.6	15137.1	14993.4
30°	11537.9	11500.6	11585.8	11697.6	11569.8	11788.1	12794.4	13135.2	14977.4	15786.7	15392.7
32.5°	12054.3	12192.8	12352.5	12400.4	12246.0	12288.6	13380.1	13726.2	15563.1	16585.3	15882.5
35°	12698.6	12810.4	13023.4	13172.4	13145.8	13018.0	14178.7	14636.6	16409.6	17171.0	16399.0
37.5°	13326.8	13459.9	13811.4	14253.3	14008.4	13949.8	15030.6	15408.7	16670.5	17485.2	16777.0
40°	14338.5	14333.1	14940.1	15169.1	15387.4	15286.2	15914.5	16042.3	16809.0	17415.9	16787.7
42.5°	15525.8	15451.3	16068.9	16425.6	16707.8	16718.4	16835.6	16793.0	16872.9	17064.5	16675.9
45°	16654.6	16814.3	17437.2	18076.2	18358.3	18390.3	17612.9	17533.1	16984.7	16963.4	16462.9
47.5°	18033.6	18070.8	18582.0	19423.2	20078.1	19854.5	18619.2	18443.5	17474.5	17639.6	16819.6
50°	18113.4	18390.3	18848.2	19838.5	21851.1	21792.6	19923.7	19593.6	18262.5	18597.9	17815.3
52.5°	16441.6	16377.7	16920.8	18539.4	21718.0	23720.0	22085.4	21297.4	19955.7	19700.1	19428.5
55°	12528.2	12677.3	13156.5	14791.0	18858.8	23746.6	25029.8	24385.5	21765.9	21329.3	21015.2
56°	10989.5	11010.7	11463.3	12954.1	17208.3	22900.0	25588.8	25067.0	22665.7	22000.2	21521.0
57.5°	9110.0	8987.5	9221.8	10036.4	14524.8	21111.0	24976.5	25487.6	23720.0	22724.3	22058.8
60°	7171.9	7145.3	7049.4	7198.5	9179.2	15903.8	20791.6	21941.6	23613.5	22042.8	21127.0
62.5°	5856.8	5723.7	5915.3	6128.3	6378.6	9866.0	14610.0	15286.2	18747.0	17597.0	15871.9
65°	4541.7	4477.8	4717.4	5409.5	5558.6	6266.8	8322.0	8843.7	11069.3	10872.3	9573.2
67.5°	3125.4	3136.0	3343.7	4397.9	5154.0	5090.1	5095.4	5366.9	5776.9	4291.4	3737.7
70°	1980.7	1975.3	2087.1	2832.6	4147.7	4190.3	3977.3	3897.4	3695.1	2236.2	2369.3
72.5°	1272.5	1235.2	1293.8	1565.4	2145.7	2481.1	2555.7	2603.6	2140.4	1757.0	1906.1
75°	718.8	681.5	660.2	729.4	846.6	979.7	1075.5	1107.5	1240.6	1331.1	1411.0
77.5°	218.3	197.0	239.6	319.5	420.6	564.4	686.8	708.1	835.9	942.4	1022.3
80°	95.8	106.5	149.1	213.0	298.2	399.3	484.5	516.5	601.7	681.5	702.8
82.5°	58.6	63.9	101.2	143.8	207.6	282.2	346.1	356.7	441.9	505.8	521.8
85°	21.3	26.6	53.2	85.2	133.1	181.0	181.0	197.0	181.0	181.0	197.0
87.5°	0.0	0.0	5.3	10.6	10.6	16.0	21.3	21.3	26.6	31.9	37.3
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°	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5	13731.5
2.5°	13768.8	13742.1	13699.5	13545.1	13529.2	13481.2	13215.0	13172.4	13215.0	13087.2	13097.9
5°	13742.1	13822.0	13502.5	13348.1	13060.6	12853.0	12613.4	12490.9	12272.6	12134.2	12288.6
7.5°	13859.3	13827.3	13428.0	13092.6	12661.3	12134.2	11713.6	11474.0	11090.6	10984.1	11064.0
10°	13816.7	13646.3	13177.8	12735.8	11921.2	11458.0	10776.5	10116.3	9754.2	9567.9	9541.2
12.5°	13758.1	13710.2	12927.5	12166.1	11308.9	10334.6	9376.2	8753.2	8162.2	7906.7	7943.9
15°	13827.3	13422.7	12459.0	11495.3	10355.9	9078.0	8045.1	7241.1	6831.1	6666.1	6666.1
17.5°	13795.4	13284.2	12235.3	10744.5	9301.6	7789.5	6655.4	6170.9	6000.5	6000.5	6048.5
20°	13811.4	13374.8	11782.8	9993.8	8055.7	6559.6	5734.3	5558.6	5633.2	5659.8	5686.4
22.5°	13901.9	13076.6	11340.9	9168.5	6900.4	5611.9	5207.2	5212.5	5345.6	5489.4	5462.8
25°	14013.7	12959.5	10803.1	8348.6	6016.5	5148.6	5020.9	5004.9	5106.0	5180.6	5191.2
27.5°	13917.8	12757.1	10254.7	7326.3	5292.4	4839.8	4813.2	4823.9	4855.8	5004.9	4957.0
30°	14232.0	12815.7	9567.9	6469.1	4893.1	4738.7	4706.7	4690.7	4738.7	4781.3	4744.0
32.5°	14620.7	12608.1	9056.7	5643.8	4696.1	4664.1	4600.2	4578.9	4605.6	4563.0	4584.3
35°	14791.0	12570.8	8391.2	5052.8	4541.7	4515.0	4477.8	4472.5	4477.8	4440.5	4408.6
37.5°	14886.9	12746.5	7629.8	4781.3	4445.8	4472.5	4387.3	4376.6	4280.8	4302.1	4318.0
40°	15051.9	12474.9	7012.2	4520.4	4387.3	4334.0	4259.5	4243.5	4179.6	4142.3	4179.6
42.5°	14812.3	12395.1	6405.2	4408.6	4302.1	4243.5	4190.3	4099.7	4078.4	4046.5	4025.2
45°	14620.7	11937.2	5862.1	4270.1	4200.9	4169.0	4067.8	3972.0	3892.1	3924.0	3876.1
47.5°	14764.4	11777.5	5324.3	4153.0	4062.5	4025.2	3924.0	3849.5	3769.6	3732.4	3721.7
50°	15339.4	12075.6	4871.8	4067.8	3945.3	3924.0	3790.9	3705.7	3631.2	3604.6	3615.2
52.5°	16713.1	12890.2	4563.0	3892.1	3833.5	3737.7	3663.2	3556.7	3508.7	3423.6	3476.8
55°	18454.2	14216.0	4483.1	3727.0	3695.1	3609.9	3508.7	3428.9	3338.4	3269.1	3253.2
56°	19013.2	14849.6	4419.2	3663.2	3609.9	3562.0	3428.9	3381.0	3237.2	3221.2	3210.6
57.5°	19465.8	15408.7	4429.9	3540.7	3487.4	3444.9	3365.0	3247.9	3152.0	3093.4	3120.1
60°	18443.5	14423.7	4227.5	3354.3	3343.7	3263.8	3152.0	3098.8	2981.6	2912.4	2896.4
62.5°	13710.2	9791.5	3428.9	3114.7	3109.4	3024.2	2896.4	2837.9	2816.6	2720.7	2720.7
65°	7896.0	6139.0	2965.7	2917.7	2875.1	2790.0	2662.2	2614.3	2561.0	2529.1	2502.4
67.5°	3370.3	3184.0	2694.1	2688.8	2640.9	2534.4	2406.6	2332.1	2262.8	2199.0	2230.9
70°	2443.9	2481.1	2433.2	2406.6	2348.0	2214.9	2103.1	2012.6	1906.1	1863.5	1895.5
72.5°	1938.1	2017.9	2087.1	2092.5	2023.3	1868.8	1746.4	1623.9	1506.8	1448.2	1474.8
75°	1469.5	1522.8	1592.0	1608.0	1506.8	1400.3	1283.2	1155.4	1064.9	995.7	1006.3
77.5°	1059.5	1048.9	1112.8	1102.1	1054.2	979.7	873.2	756.1	654.9	591.0	596.3
80°	724.1	740.1	777.4	772.0	713.5	665.5	585.7	489.8	415.3	362.1	351.4
82.5°	505.8	532.4	564.4	537.8	489.8	441.9	383.4	314.1	255.6	213.0	202.3
85°	181.0	207.6	239.6	255.6	271.5	260.9	218.3	175.7	127.8	106.5	101.2
87.5°	37.3	42.6	47.9	47.9	47.9	42.6	37.3	37.3	31.9	16.0	16.0
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)