

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: P534082

Luminaire Tested: **GALN-SA9C-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534082  
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-SA9C-740-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 54021 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

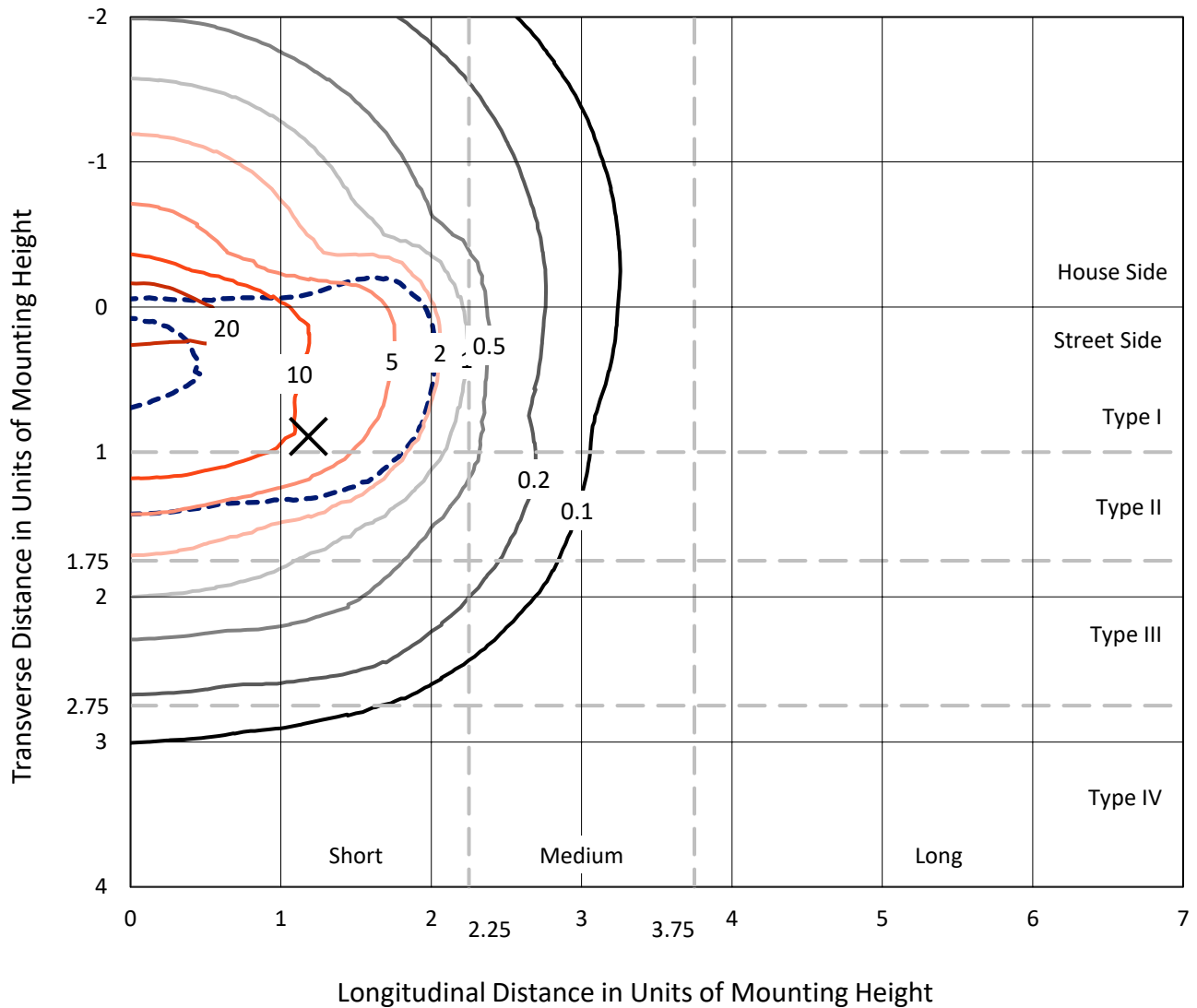
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

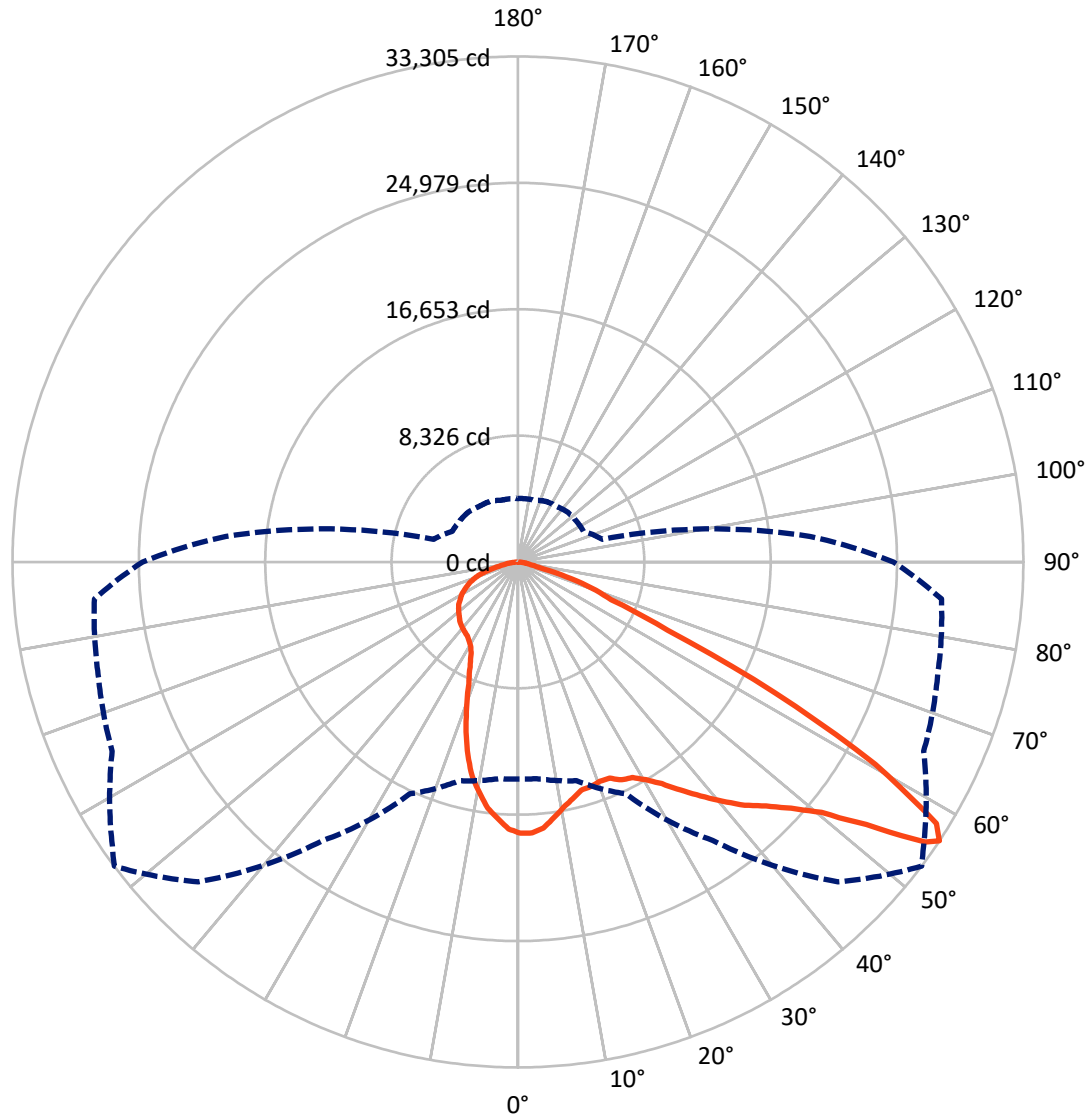
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 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	15764.5	0.0	15764.5
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	38256.5	0.0	38256.5
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	54021.0	0.0	54021.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1582.2	2.9
10°-20°	3951.7	7.3
20°-30°	5827.1	10.8
30°-40°	8325.8	15.4
40°-50°	11459.3	21.2
50°-60°	13541.8	25.1
60°-70°	7216.9	13.4
70°-80°	1830.9	3.4
80°-90°	285.5	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°	54021.0	100.0
0°-180°	54021.0	100.0

**Coefficient of Utilization**



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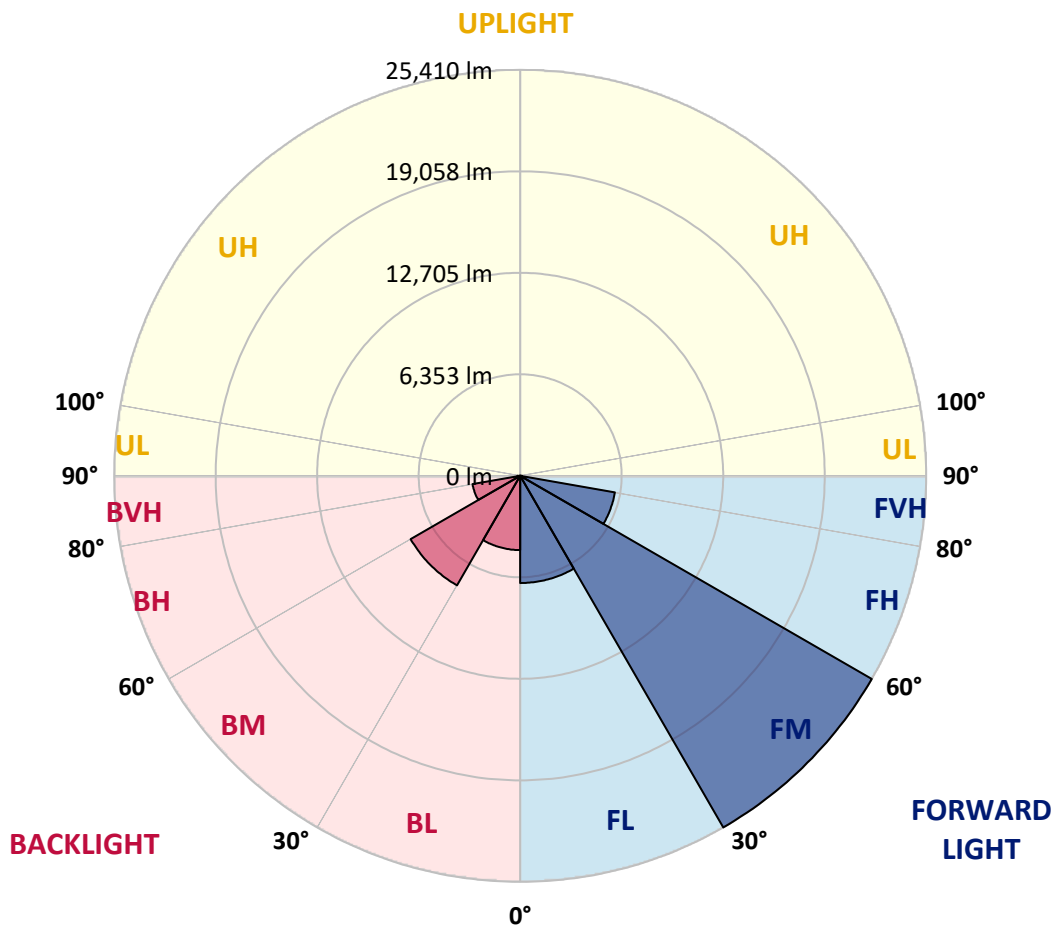
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6711.3	12.4			
FM (30°-60°)	25410.4	47.0			
FH (60°-80°)	6020.0	11.1			G3/7500
FVH (80°-90°)	114.8	0.2			G2/225
BL (0°-30°)	4649.6	8.6	B4/5000		
BM (30°-60°)	7916.4	14.7	B4/8500		
BH (60°-80°)	3027.8	5.6	B4/5000		G4/5000
BVH (80°-90°)	170.7	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3
2.5°	17650.5	17498.1	17588.1	17553.5	17837.6	17920.8	17879.2	17913.9	18073.2	17997.0	17837.6
5°	16493.2	16708.0	16749.6	16853.6	17019.9	17345.6	17602.0	17671.3	17747.5	18101.0	18066.3
7.5°	15439.9	15585.4	15509.2	15814.1	16174.4	16701.1	17013.0	17068.4	17768.3	17962.4	18107.9
10°	14774.6	14629.1	14975.6	15058.7	15467.6	16070.5	16444.7	16673.4	17311.0	18080.2	18170.3
12.5°	14157.8	14109.3	14317.2	14552.8	15010.2	15633.9	16015.1	16105.1	17089.2	17900.0	18322.7
15°	13700.5	13645.0	13852.9	14026.2	14559.8	15114.2	15599.3	15855.7	16846.6	17796.0	18191.1
17.5°	13340.1	13333.2	13451.0	13762.8	14310.3	14774.6	15557.7	15571.5	16721.9	17955.4	18301.9
20°	13319.3	13312.4	13333.2	13679.7	14178.6	14746.9	15426.0	15550.8	16721.9	17844.6	18308.9
22.5°	13492.6	13381.7	13506.4	13728.2	14088.5	14795.4	15474.5	15751.7	17123.8	18392.0	18620.7
25°	13769.8	13797.5	13866.8	13943.0	14150.9	14906.3	15904.2	16132.9	17595.1	18863.3	19050.4
27.5°	14275.6	14261.8	14289.5	14331.1	14511.3	15010.2	16077.4	16666.5	18579.1	19701.8	19514.7
30°	15017.1	14968.6	15079.5	15225.0	15058.7	15342.9	16652.6	17096.1	19493.9	20547.2	20034.4
32.5°	15689.3	15869.5	16077.4	16139.8	15938.8	15994.3	17414.9	17865.3	20256.2	21586.7	20672.0
35°	16527.9	16673.4	16950.6	17144.6	17110.0	16943.7	18454.4	19050.4	21358.0	22349.0	21344.2
37.5°	17345.6	17518.8	17976.2	18551.4	18232.6	18156.4	19563.2	20055.2	21697.6	22757.9	21836.2
40°	18662.3	18655.4	19445.4	19743.4	20027.5	19895.8	20713.5	20879.9	21877.8	22667.8	21850.1
42.5°	20207.7	20110.6	20914.5	21378.8	21746.1	21760.0	21912.4	21857.0	21960.9	22210.4	21704.5
45°	21676.8	21884.7	22695.5	23527.1	23894.4	23936.0	22924.2	22820.2	22106.5	22078.7	21427.3
47.5°	23471.7	23520.2	24185.4	25280.4	26132.7	25841.7	24233.9	24005.3	22744.0	22958.8	21891.6
50°	23575.6	23936.0	24531.9	25820.9	28440.4	28364.2	25931.8	25502.1	23769.6	24206.2	23187.5
52.5°	21399.6	21316.4	22023.3	24130.0	28267.2	30872.8	28745.3	27719.7	25973.4	25640.7	25287.3
55°	16306.1	16500.2	17123.8	19251.3	24545.8	30907.5	32577.6	31739.1	28329.5	27761.3	27352.4
56°	14303.4	14331.1	14920.1	16860.5	22397.5	29805.6	33305.2	32626.1	29500.7	28634.4	28010.8
57.5°	11857.1	11697.7	12002.6	13062.9	18904.8	27477.2	32508.3	33173.5	30872.8	29576.9	28710.7
60°	9334.6	9300.0	9175.2	9369.3	11947.2	20699.7	27061.4	28558.2	30734.2	28689.9	27497.9
62.5°	7622.9	7449.7	7699.1	7976.3	8302.0	12841.2	19015.7	19895.8	24400.3	22903.4	20658.1
65°	5911.2	5828.1	6139.9	7040.8	7234.8	8156.5	10831.5	11510.6	14407.3	14150.9	12460.0
67.5°	4067.9	4081.7	4352.0	5724.1	6708.2	6625.0	6631.9	6985.4	7519.0	5585.5	4864.8
70°	2577.9	2571.0	2716.5	3686.7	5398.4	5453.9	5176.7	5072.7	4809.4	2910.6	3083.8
72.5°	1656.3	1607.7	1684.0	2037.4	2792.8	3229.3	3326.4	3388.7	2785.8	2286.9	2480.9
75°	935.5	887.0	859.3	949.4	1101.9	1275.1	1399.8	1441.4	1614.7	1732.5	1836.4
77.5°	284.1	256.4	311.8	415.8	547.5	734.6	894.0	921.7	1088.0	1226.6	1330.5
80°	124.7	138.6	194.0	277.2	388.1	519.7	630.6	672.2	783.1	887.0	914.8
82.5°	76.2	83.2	131.7	187.1	270.3	367.3	450.4	464.3	575.2	658.3	679.1
85°	27.7	34.6	69.3	110.9	173.2	235.6	235.6	256.4	235.6	235.6	256.4
87.5°	0.0	0.0	6.9	13.9	13.9	20.8	27.7	27.7	34.6	41.6	48.5
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°	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3	17872.3
2.5°	17920.8	17886.1	17830.7	17629.7	17608.9	17546.6	17200.1	17144.6	17200.1	17033.8	17047.6
5°	17886.1	17990.1	17574.3	17373.3	16999.1	16728.8	16417.0	16257.6	15973.5	15793.3	15994.3
7.5°	18038.6	17997.0	17477.3	17040.7	16479.4	15793.3	15245.8	14934.0	14435.0	14296.4	14400.4
10°	17983.2	17761.4	17151.6	16576.4	15516.1	14913.2	14026.2	13166.9	12695.6	12453.1	12418.4
12.5°	17906.9	17844.6	16825.9	15834.9	14719.2	13451.0	12203.6	11392.8	10623.6	10290.9	10339.4
15°	17997.0	17470.3	16216.0	14961.7	13478.7	11815.5	10471.1	9424.7	8891.1	8676.3	8676.3
17.5°	17955.4	17290.2	15925.0	13984.6	12106.6	10138.5	8662.4	8031.8	7810.0	7810.0	7872.4
20°	17976.2	17408.0	15335.9	13007.5	10485.0	8537.7	7463.5	7234.8	7331.9	7366.5	7401.2
22.5°	18094.0	17019.9	14760.7	11933.3	8981.2	7304.1	6777.5	6784.4	6957.6	7144.8	7110.1
25°	18239.6	16867.4	14060.8	10866.1	7830.8	6701.2	6534.9	6514.1	6645.8	6742.8	6756.7
27.5°	18114.8	16604.1	13347.0	9535.6	6888.3	6299.3	6264.7	6278.5	6320.1	6514.1	6451.8
30°	18523.7	16680.3	12453.1	8419.9	6368.6	6167.6	6126.1	6105.3	6167.6	6223.1	6174.6
32.5°	19029.6	16410.1	11787.8	7345.7	6112.2	6070.6	5987.5	5959.7	5994.4	5938.9	5966.7
35°	19251.3	16361.6	10921.6	6576.5	5911.2	5876.6	5828.1	5821.1	5828.1	5779.6	5738.0
37.5°	19376.1	16590.2	9930.6	6223.1	5786.5	5821.1	5710.3	5696.4	5571.7	5599.4	5620.2
40°	19590.9	16236.8	9126.7	5883.5	5710.3	5641.0	5543.9	5523.1	5440.0	5391.5	5440.0
42.5°	19279.1	16132.9	8336.7	5738.0	5599.4	5523.1	5453.9	5336.0	5308.3	5266.7	5239.0
45°	19029.6	15536.9	7629.8	5557.8	5467.7	5426.1	5294.5	5169.7	5065.8	5107.4	5045.0
47.5°	19216.7	15329.0	6929.9	5405.3	5287.5	5239.0	5107.4	5010.3	4906.4	4857.9	4844.0
50°	19965.1	15717.1	6340.9	5294.5	5135.1	5107.4	4934.1	4823.2	4726.2	4691.6	4705.4
52.5°	21753.0	16777.3	5938.9	5065.8	4989.5	4864.8	4767.8	4629.2	4566.8	4455.9	4525.2
55°	24019.1	18502.9	5835.0	4850.9	4809.4	4698.5	4566.8	4462.9	4345.1	4255.0	4234.2
56°	24746.8	19327.6	5751.8	4767.8	4698.5	4636.1	4462.9	4400.5	4213.4	4192.6	4178.7
57.5°	25335.8	20055.2	5765.7	4608.4	4539.1	4483.7	4379.7	4227.3	4102.5	4026.3	4060.9
60°	24005.3	18773.2	5502.4	4365.9	4352.0	4248.0	4102.5	4033.2	3880.8	3790.7	3769.9
62.5°	17844.6	12744.1	4462.9	4054.0	4047.1	3936.2	3769.9	3693.6	3665.9	3541.2	3541.2
65°	10277.1	7990.2	3860.0	3797.6	3742.2	3631.3	3465.0	3402.6	3333.3	3291.7	3257.1
67.5°	4386.6	4144.1	3506.5	3499.6	3437.2	3298.6	3132.3	3035.3	2945.2	2862.1	2903.6
70°	3180.8	3229.3	3167.0	3132.3	3056.1	2882.8	2737.3	2619.5	2480.9	2425.5	2467.1
72.5°	2522.5	2626.4	2716.5	2723.5	2633.4	2432.4	2273.0	2113.6	1961.2	1884.9	1919.6
75°	1912.7	1982.0	2072.0	2092.8	1961.2	1822.6	1670.1	1503.8	1386.0	1295.9	1309.8
77.5°	1379.1	1365.2	1448.4	1434.5	1372.1	1275.1	1136.5	984.0	852.4	769.2	776.2
80°	942.5	963.3	1011.8	1004.8	928.6	866.2	762.3	637.6	540.5	471.2	457.4
82.5°	658.3	693.0	734.6	699.9	637.6	575.2	499.0	408.9	332.6	277.2	263.3
85°	235.6	270.3	311.8	332.6	353.4	339.6	284.1	228.7	166.3	138.6	131.7
87.5°	48.5	55.4	62.4	62.4	62.4	55.4	48.5	48.5	41.6	20.8	20.8
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)