

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: P647190

Luminaire Tested: **GALN-SA9C-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43563.8 lumens
Efficiency: N/A
Efficacy: 90.6 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

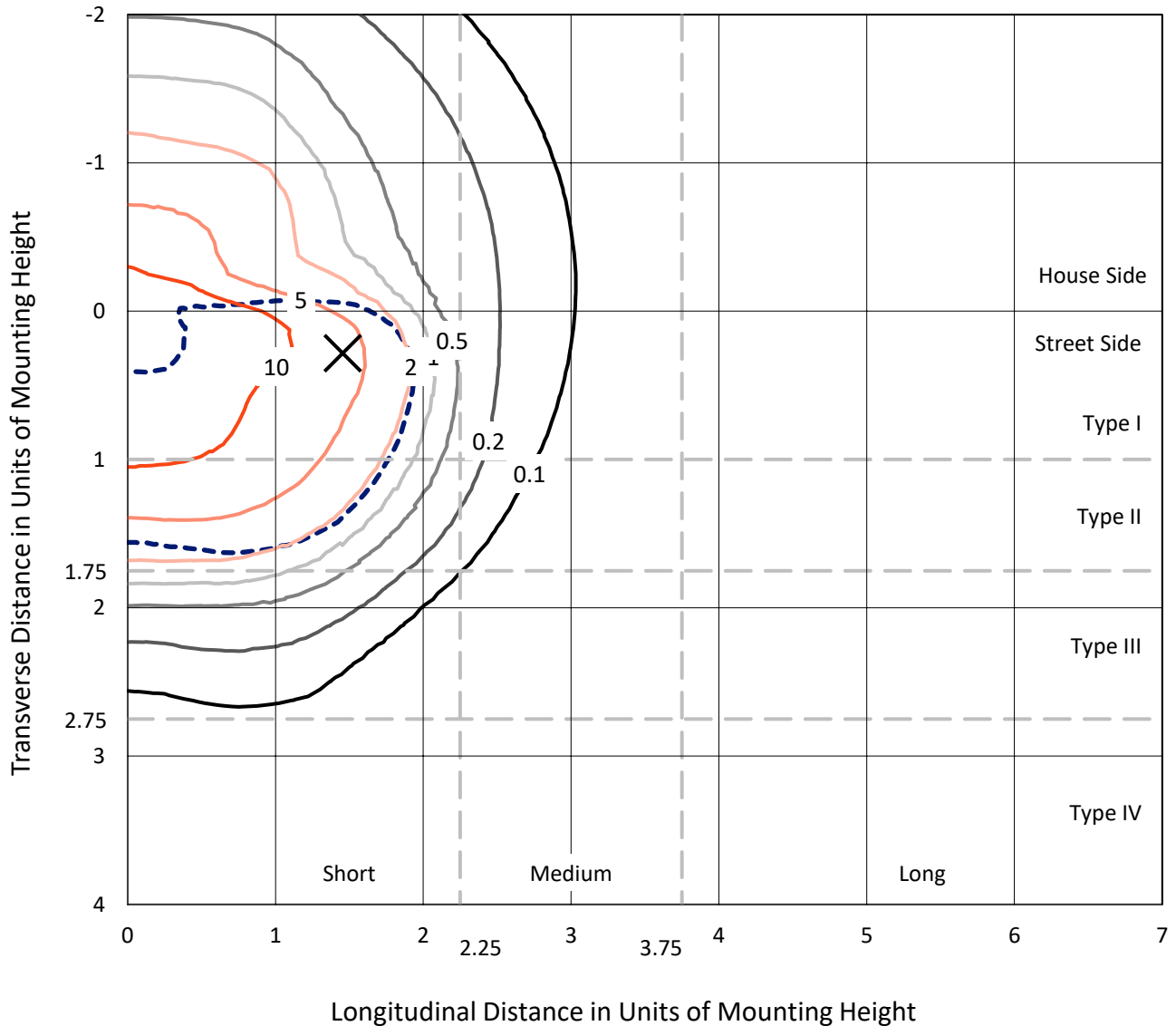
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

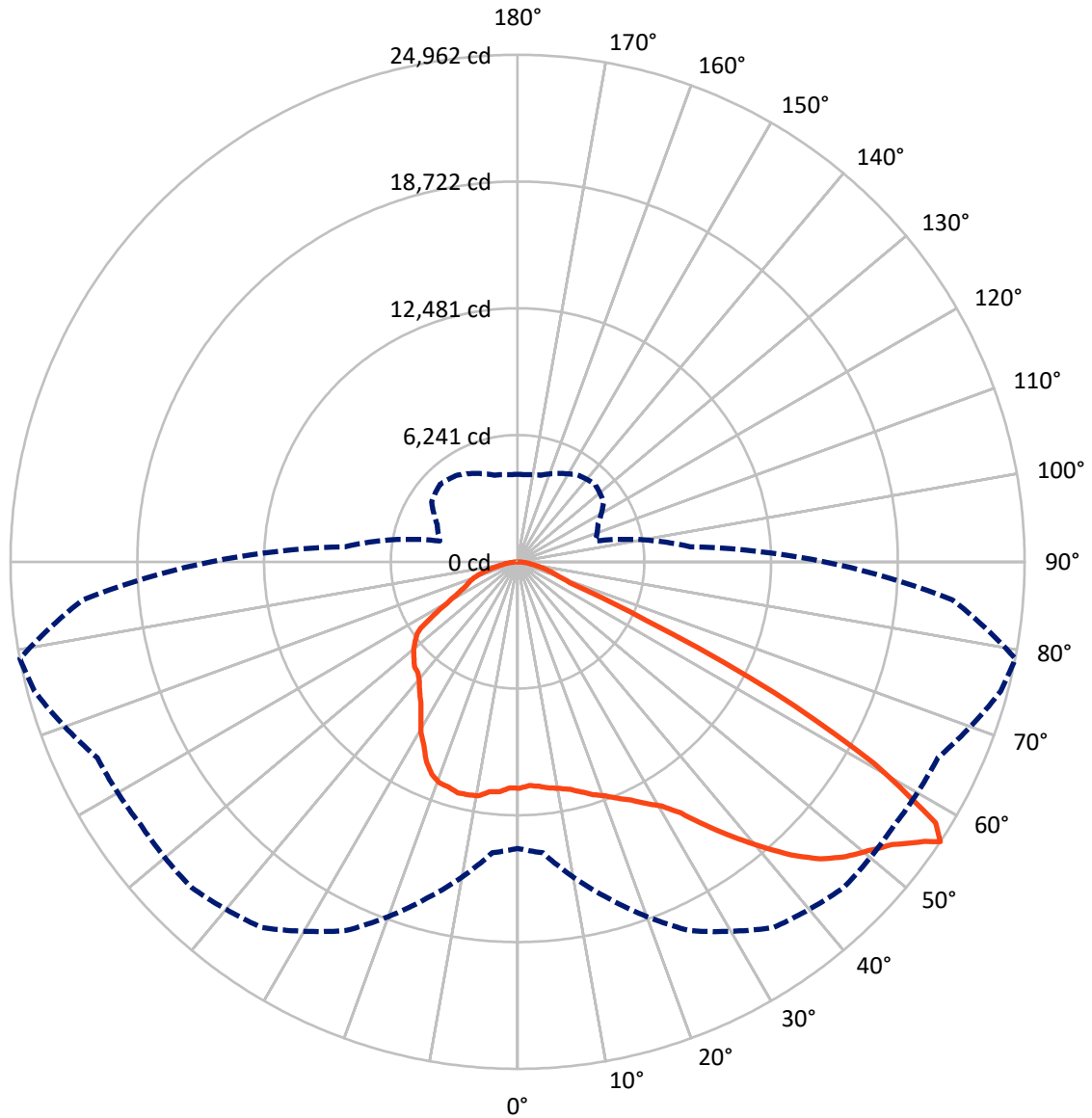
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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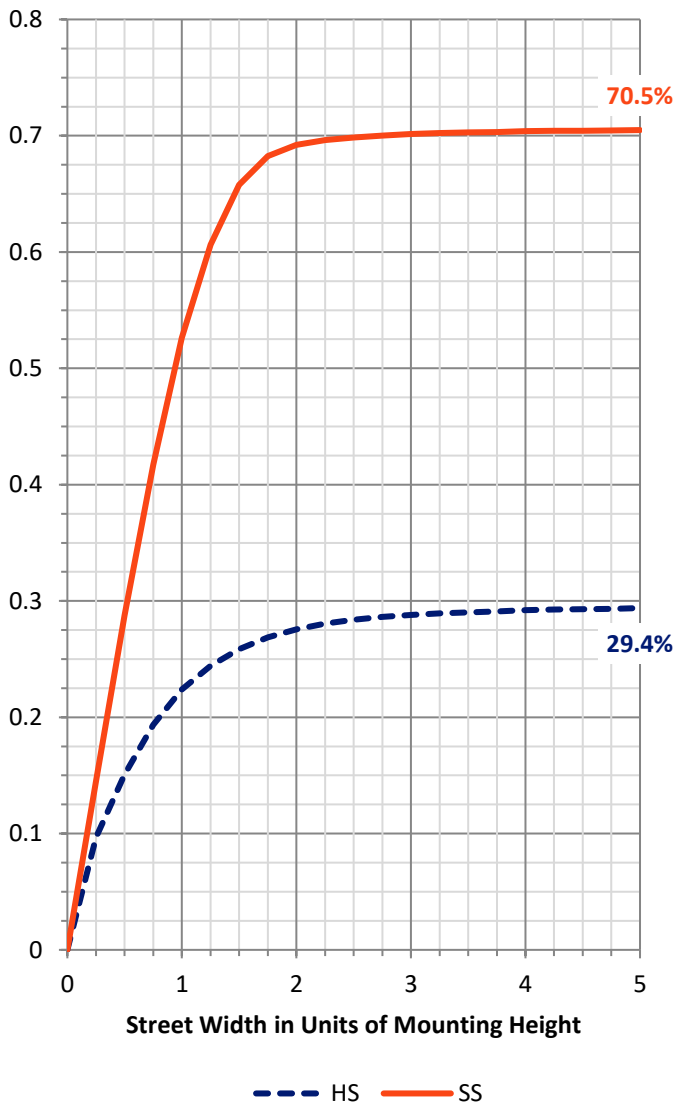
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12865.3	0.0	12865.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	30698.4	0.0	30698.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	43563.8	0.0	43563.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.4	2.3
10°-20°	2773.4	6.4
20°-30°	4744.8	10.9
30°-40°	7272.0	16.7
40°-50°	9828.0	22.6
50°-60°	11287.8	25.9
60°-70°	5145.3	11.8
70°-80°	1268.6	2.9
80°-90°	230.6	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°	43563.8	100.0
0°-180°	43563.8	100.0

Coefficient of Utilization

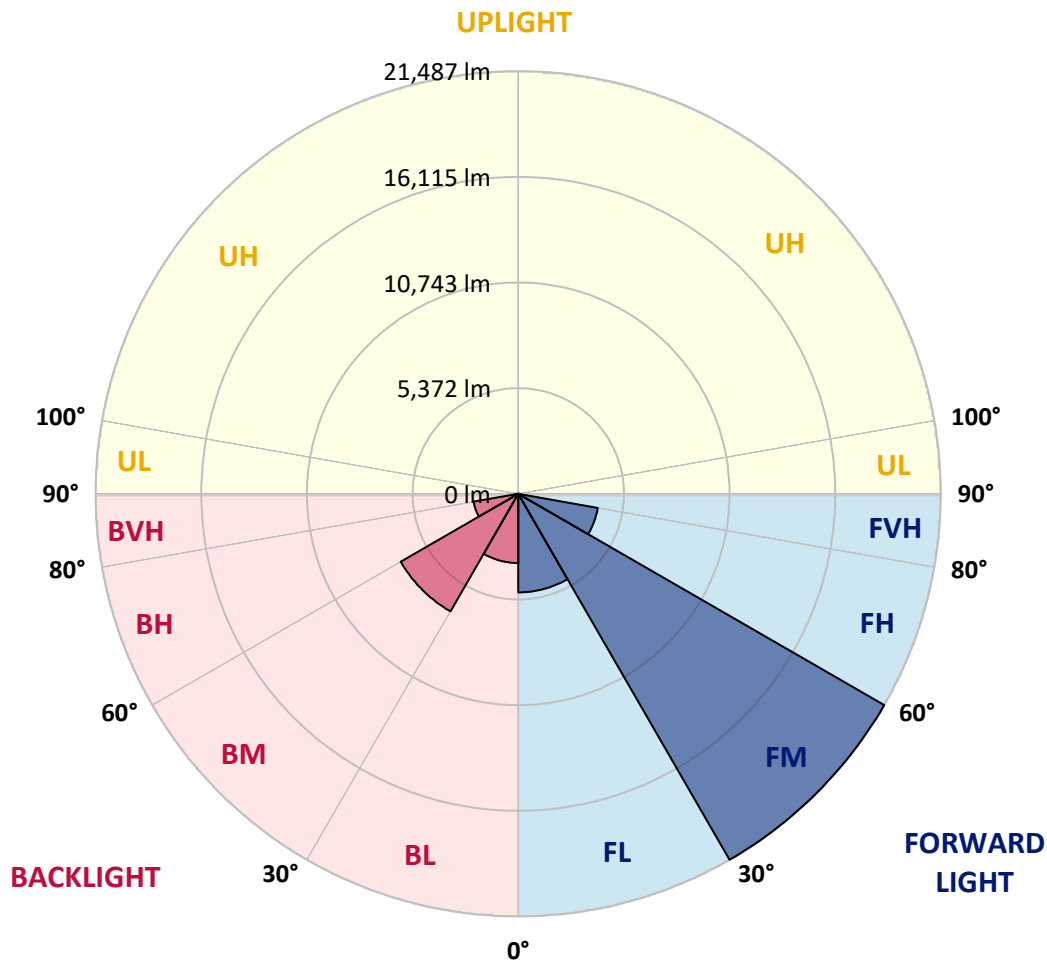


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5012.4	11.5			
FM (30°-60°)	21486.9	49.3			
FH (60°-80°)	4107.1	9.4			G2/5000
FVH (80°-90°)	92.1	0.2			G1/100
BL (0°-30°)	3519.2	8.1	B4/5000		
BM (30°-60°)	6900.8	15.8	B4/8500		
BH (60°-80°)	2306.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	138.5	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°	55°	65°	75°	79°	85°
0°	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2
2.5°	10603.6	10576.5	10641.6	10690.4	10750.1	10826.1	10864.0	10885.7	11075.7	11026.8	11173.4
5°	10375.7	10305.1	10353.9	10392.0	10495.0	10587.3	10690.4	10853.2	11026.8	11102.9	11281.9
7.5°	10174.9	10136.9	10126.1	10153.2	10294.3	10413.7	10592.7	10831.5	11113.7	11238.5	11341.6
10°	9843.9	9789.6	9871.0	10050.0	10088.1	10337.7	10543.9	10885.7	11130.0	11347.0	11650.9
12.5°	9697.4	9643.0	9659.3	9762.4	10028.4	10267.2	10511.3	10896.6	11412.1	11499.0	11906.0
15°	9930.7	9876.4	9892.7	9865.6	10120.6	10245.4	10630.7	11113.7	11607.5	11754.0	12188.2
17.5°	10462.5	10467.9	10397.4	10337.7	10278.0	10543.9	10809.8	11244.0	11683.5	12052.5	12378.1
20°	11477.3	11298.2	11157.1	10820.7	10728.4	10842.4	11178.8	11596.6	11992.8	12296.7	12665.7
22.5°	12258.7	12275.0	12074.2	11520.7	11319.9	11368.8	11656.4	11998.2	12432.3	12649.4	13072.7
25°	13392.8	13278.9	13061.8	12622.3	12171.9	12209.9	12421.5	12730.8	12850.2	13002.1	13463.4
27.5°	14429.4	14461.9	14033.2	13620.8	13061.8	12953.3	13333.2	13387.4	13186.7	13474.3	13631.6
30°	15482.1	15454.9	15172.8	14689.8	14141.8	14163.5	14331.6	14065.7	13789.0	13946.4	14054.9
32.5°	16572.8	16263.5	16252.7	15818.6	15400.7	15199.9	14993.7	15124.0	14695.3	14727.8	14624.7
35°	17446.5	17489.9	17240.3	16931.0	16724.8	16372.1	15807.7	16041.0	15959.7	15921.7	15476.7
37.5°	18081.4	17913.2	18038.0	17934.9	17739.6	17300.0	16713.9	16936.4	16974.4	17158.9	16643.4
40°	18602.4	18531.9	18862.9	18917.1	18781.5	17831.8	16779.1	17441.1	18010.9	18412.5	17799.2
42.5°	18852.1	19004.0	19351.3	19769.1	19465.2	18450.5	17115.5	17826.4	19096.2	19731.1	18895.4
45°	19188.4	18993.1	19508.6	20273.8	20279.2	18971.4	17441.1	18347.3	19942.8	20865.3	19644.3
47.5°	18846.6	18944.3	19476.1	20447.4	20697.0	19519.5	18320.2	19085.4	20876.1	21695.6	20338.9
50°	18081.4	18276.8	19248.2	20257.5	21011.8	20100.2	19329.5	19883.1	21739.0	22363.0	20452.9
52.5°	17283.7	17392.2	18911.7	20404.0	21152.9	20849.0	20680.8	20984.7	22791.7	23117.4	20594.0
55°	15113.1	15628.6	17799.2	20338.9	21842.1	22200.2	22070.0	22515.0	23985.6	24311.2	21364.5
56°	14109.2	14380.5	17131.8	20035.0	21977.7	22694.1	22628.9	22829.7	24620.5	24962.4	21484.0
57.5°	12253.2	12275.0	14608.4	18689.2	21467.7	22840.6	22775.4	22932.8	24495.7	24262.4	20436.6
60°	7667.8	8004.2	9941.5	14375.1	18255.1	21190.9	21559.9	20295.5	20653.7	20159.8	15899.9
62.5°	3972.2	3923.5	5209.5	8405.8	12117.6	15172.8	15514.7	15454.9	14901.4	14179.7	10386.5
65°	1980.7	1991.6	2724.1	4162.2	6208.0	7944.6	8899.7	9002.7	7532.1	6929.8	4927.3
67.5°	1438.1	1492.3	1959.0	2545.1	2925.0	3272.2	4010.3	3934.3	2979.2	2832.7	2626.5
70°	1117.9	1166.7	1590.0	1942.7	1763.6	1763.6	1921.0	1986.2	2121.8	2181.5	2252.1
72.5°	814.0	852.0	1215.5	1340.3	1155.9	1242.7	1438.1	1590.0	1731.1	1752.8	1834.2
75°	558.9	591.5	797.7	738.1	694.6	857.4	1052.7	1193.8	1297.0	1351.2	1400.1
77.5°	363.5	374.4	455.9	385.3	445.0	553.5	683.7	803.1	906.2	949.6	960.5
80°	162.8	179.1	195.4	244.2	309.3	396.1	488.4	586.1	651.2	667.5	700.0
82.5°	92.2	92.2	119.4	173.7	227.9	287.6	352.7	423.3	499.2	515.5	510.1
85°	48.9	48.9	70.5	103.1	141.1	168.2	162.8	168.2	179.1	206.2	200.8
87.5°	16.3	16.3	21.7	21.7	27.2	32.6	27.2	38.0	48.9	48.9	48.9
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°	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2
2.5°	11130.0	11178.8	11113.7	11254.8	11254.8	11227.7	11092.0	11135.4	11167.9	11167.9	11195.1
5°	11341.6	11325.3	11368.8	11200.5	11097.4	11059.4	10837.0	10728.4	10636.1	10630.7	10549.3
7.5°	11461.0	11417.5	11401.3	11276.5	10820.7	10543.9	10066.3	9789.6	9729.9	9518.2	9599.7
10°	11650.9	11732.3	11650.9	10972.6	10337.7	9702.8	9236.1	8807.3	8639.2	8503.5	8422.1
12.5°	12041.6	12003.6	11531.6	10614.4	9724.5	8970.2	8275.6	7825.1	7657.0	7537.5	7526.7
15°	12372.7	12182.7	11461.0	10050.0	8769.4	7966.2	7396.5	7076.3	7000.3	7011.1	7060.0
17.5°	12486.6	12356.4	11092.0	9464.0	8058.5	7114.3	6848.4	6799.6	6870.0	6951.5	6973.2
20°	12665.7	12459.5	10940.0	8666.3	7179.4	6582.4	6566.2	6739.8	6870.0	6989.4	7005.7
22.5°	13040.2	12519.2	10446.2	7912.0	6577.0	6425.1	6582.4	6729.0	6929.8	7027.4	6940.6
25°	13148.7	12388.9	9751.6	7005.7	6197.2	6327.4	6495.6	6696.5	6837.5	6891.8	6929.8
27.5°	13240.9	12188.2	8812.8	6403.4	6077.8	6322.0	6495.6	6663.9	6739.8	6788.7	6832.1
30°	13501.4	12128.4	7998.8	6001.9	6001.9	6213.5	6435.9	6479.4	6582.4	6642.2	6718.1
32.5°	13631.6	11716.0	7163.1	5746.8	5925.8	6267.8	6284.0	6365.4	6370.8	6419.7	6338.3
35°	13973.5	11423.0	6387.1	5562.3	5958.4	6213.5	6294.9	6246.0	5980.1	5849.9	5877.0
37.5°	14223.1	11276.5	5828.2	5540.6	5963.9	6273.2	6316.5	5947.6	5670.8	5453.8	5508.0
40°	14896.0	10912.9	5404.9	5502.6	6012.7	6338.3	6218.9	5817.3	5318.1	5095.6	5057.6
42.5°	15411.6	10652.4	5139.0	5459.2	6050.6	6430.5	6170.0	5556.9	5046.7	4840.5	4894.8
45°	16008.5	10592.7	4997.9	5470.0	6115.8	6479.4	6110.4	5356.0	4813.4	4732.0	4715.7
47.5°	16220.1	10164.0	4846.0	5377.8	6099.5	6463.1	5909.5	5204.1	4726.6	4737.5	4780.8
50°	15867.4	9724.5	4732.0	5187.8	5991.0	6316.5	5594.8	5003.3	4677.7	4813.4	4889.4
52.5°	15417.0	9274.1	4498.6	4932.8	5768.5	6088.7	5448.3	4992.5	4628.9	4585.5	4601.8
55°	15552.7	8905.1	4173.1	4585.5	5410.3	5665.4	5285.5	4889.4	4509.5	4346.7	4401.0
56°	15113.1	8525.2	3961.4	4368.4	5166.2	5394.0	5204.1	4797.1	4411.8	4303.3	4303.3
57.5°	13870.4	7250.0	3684.6	4021.1	4650.6	4921.9	5046.7	4742.9	4303.3	4113.3	4118.8
60°	10229.1	5155.3	3304.8	3543.5	3852.9	4070.0	4650.6	4590.9	4032.0	3901.7	3852.9
62.5°	6305.7	3766.1	3033.5	3125.7	3283.1	3462.2	4059.1	4156.8	3744.4	3603.3	3570.7
65°	3532.7	2881.5	2827.3	2865.2	2941.2	3033.5	3370.0	3587.0	3304.8	3087.8	3076.9
67.5°	2583.0	2577.6	2621.0	2653.6	2686.2	2686.2	2767.6	2854.4	2816.4	2642.8	2626.5
70°	2295.4	2311.7	2344.3	2349.7	2360.6	2322.6	2257.5	2230.3	2273.8	2165.2	2143.5
72.5°	1893.9	1948.2	1986.2	1991.6	1931.9	1883.0	1796.2	1704.0	1671.4	1649.7	1644.3
75°	1454.3	1492.3	1508.6	1503.2	1481.4	1410.9	1307.8	1215.5	1155.9	1090.7	1123.3
77.5°	982.2	1036.5	1063.6	1063.6	1031.1	922.5	873.7	803.1	743.5	672.9	683.7
80°	689.2	727.2	770.6	765.1	710.9	656.6	586.1	520.9	472.1	417.9	412.4
82.5°	515.5	537.2	558.9	548.1	510.1	455.9	407.0	347.3	293.0	255.0	255.0
85°	184.5	200.8	244.2	255.0	276.8	276.8	233.3	195.4	157.4	130.2	130.2
87.5°	54.3	54.3	59.7	59.7	54.3	59.7	48.9	54.3	59.7	38.0	38.0
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)