

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: P531321

Luminaire Tested: **GALN-SA6C-760-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-760-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31100 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

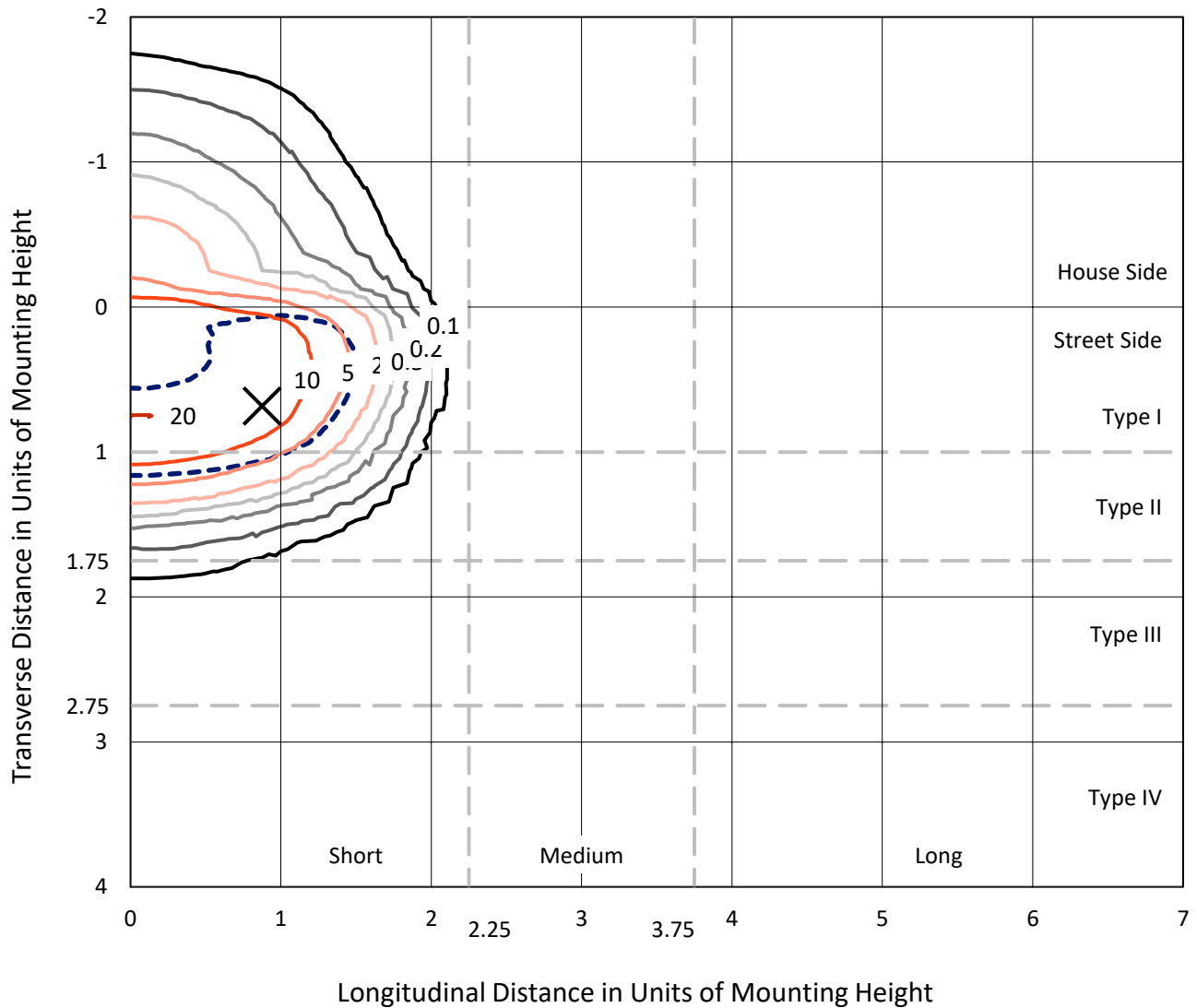
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

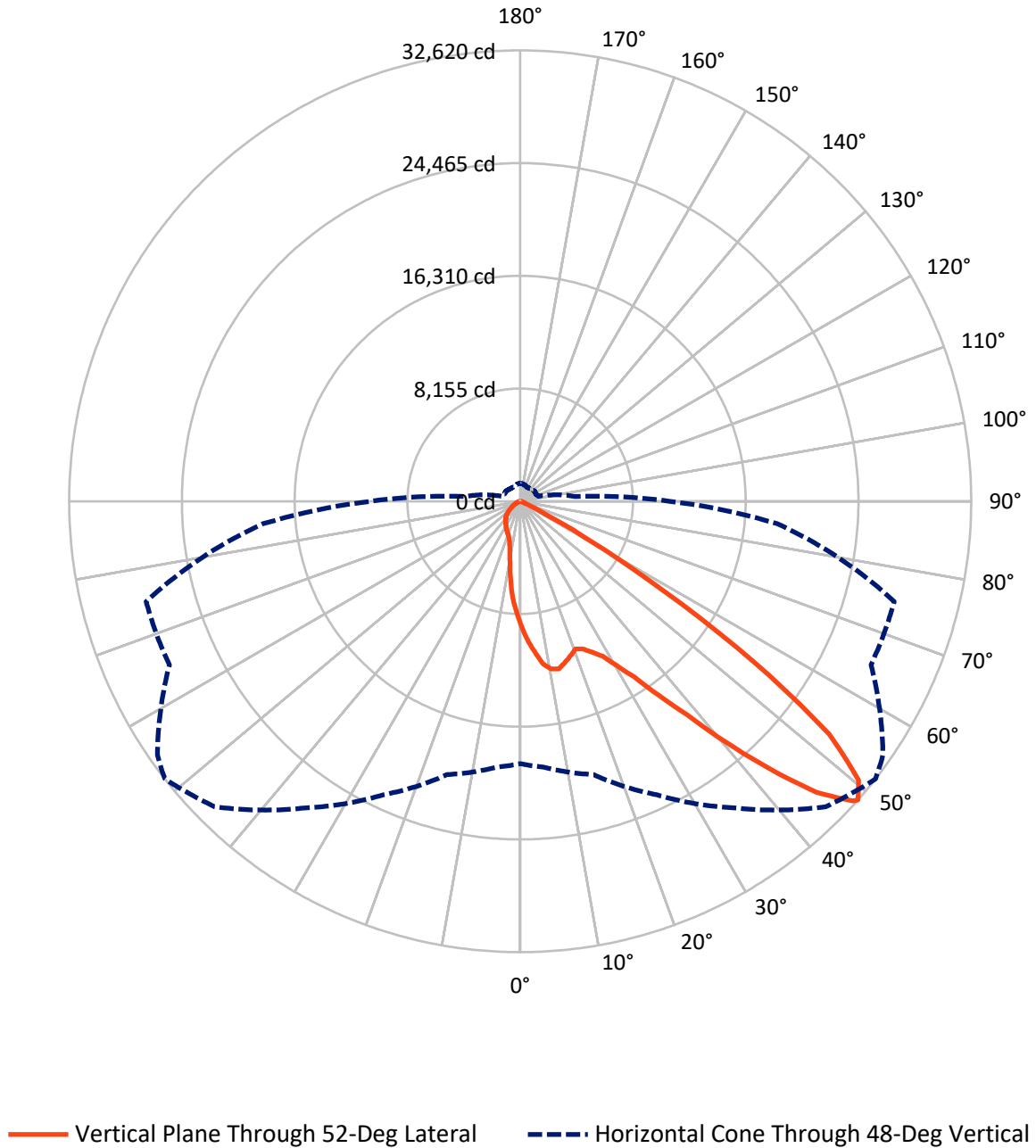
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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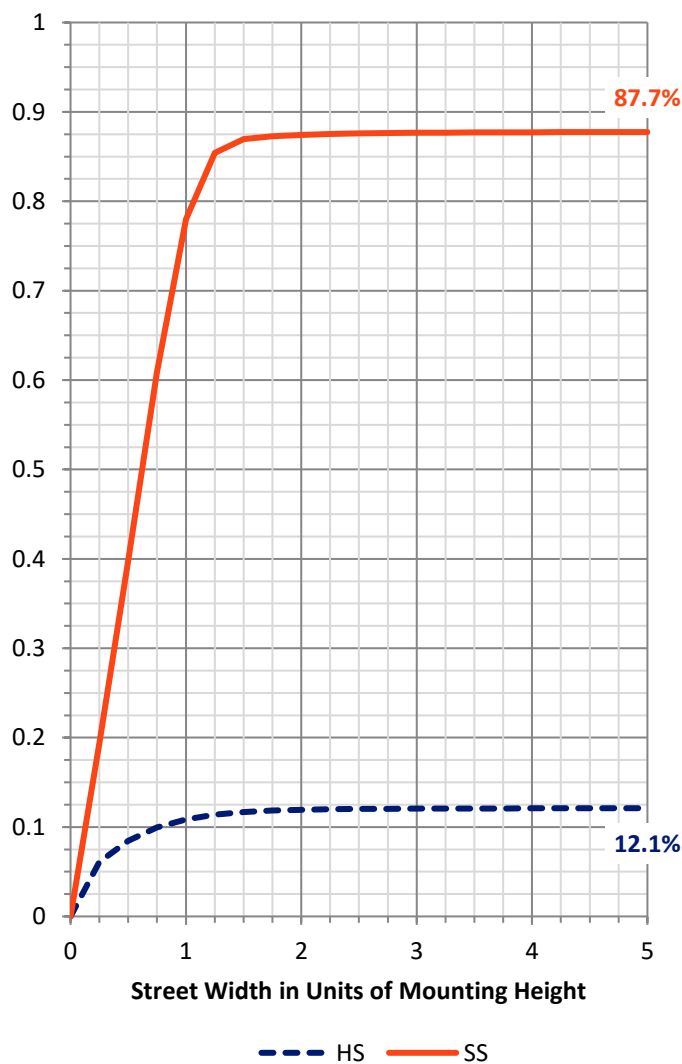
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3786.7	0.0	3786.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	27313.3	0.0	27313.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	31100.0	0.0	31100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.0	2.6
10°-20°	2148.3	6.9
20°-30°	3668.0	11.8
30°-40°	6754.6	21.7
40°-50°	10489.8	33.7
50°-60°	6313.1	20.3
60°-70°	730.2	2.3
70°-80°	141.3	0.5
80°-90°	32.7	0.1
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°	31100.0	100.0
0°-180°	31100.0	100.0

Coefficient of Utilization



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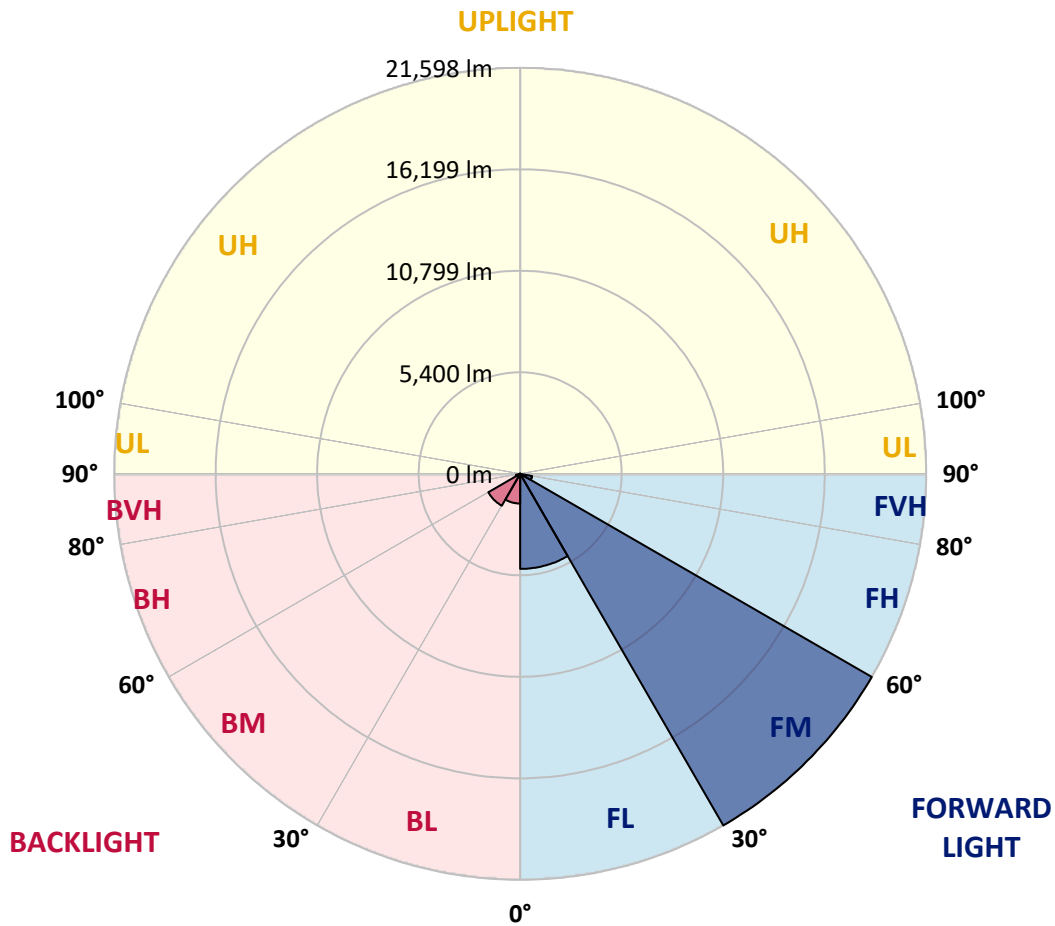
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5056.5	16.3			
FM (30°-60°)	21598.3	69.4			
FH (60°-80°)	643.0	2.1			G0/660
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1581.8	5.1	B3/2500		
BM (30°-60°)	1959.2	6.3	B2/2500		
BH (60°-80°)	228.5	0.7	B1/500		G1/500
BVH (80°-90°)	17.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2
2.5°	10885.3	10635.9	10658.6	10495.4	10400.2	10246.1	10037.5	9996.7	9770.0	9461.7	9148.9
5°	11864.6	11805.6	11882.7	11647.0	11656.0	11402.1	10912.5	10921.6	10400.2	9897.0	9411.9
7.5°	11928.0	11792.0	11869.1	12077.6	12200.1	12154.7	11878.2	11637.9	11143.7	10404.7	9697.5
10°	10681.3	10939.7	11021.3	11365.9	11855.5	12372.3	12340.6	12354.2	11941.6	10976.0	9942.3
12.5°	9933.2	9761.0	10037.5	10246.1	10985.0	11987.0	12444.9	12544.6	12576.3	11529.1	10187.1
15°	9593.2	9593.2	9638.5	9697.5	10232.5	11157.3	12091.2	12381.4	13066.0	12254.5	10572.5
17.5°	9806.3	9797.2	9860.7	9738.3	9937.8	10649.5	11764.8	12095.8	13614.6	12966.2	10876.2
20°	10454.6	10486.3	10445.5	10091.9	10105.5	10640.5	11402.1	11923.5	13986.3	13582.8	11279.7
22.5°	11356.8	11374.9	11143.7	10758.4	10645.0	10908.0	11610.7	12009.6	14285.5	14321.8	11402.1
25°	12399.5	12327.0	12281.7	11737.6	11393.1	11619.7	12082.2	12313.4	14471.4	14956.5	11751.2
27.5°	13845.8	13700.7	13424.1	12939.0	12685.2	12363.3	12694.2	13075.1	15001.9	15845.1	12132.1
30°	15981.1	15854.2	15314.7	14689.0	14022.6	13705.2	13809.5	14018.1	15958.5	16874.3	12635.3
32.5°	19195.5	18928.0	18148.2	16955.9	16049.1	15174.1	15146.9	15369.1	16815.3	18297.8	13233.7
35°	22736.3	22654.7	21507.6	20279.0	18524.5	17173.5	17196.1	17314.0	18456.5	20165.7	14018.1
37.5°	25089.2	25538.1	24808.1	23488.8	22015.4	20084.1	19594.4	19635.2	20709.7	22378.1	15432.5
40°	26907.2	26526.4	26612.5	26304.2	25297.8	23983.0	22899.5	22686.4	23316.6	24826.3	16838.0
42.5°	26113.8	26132.0	26662.4	27392.3	27641.7	27546.5	26440.3	26036.8	25547.1	26830.1	18175.4
45°	23874.2	24341.2	25030.3	26961.6	28657.2	30248.5	30030.9	29359.9	27088.6	28416.9	18946.1
47.5°	20301.7	20283.6	21412.4	23924.1	27691.5	31418.2	32406.5	31935.0	28181.2	28240.1	18787.5
48°	18982.4	19308.8	20474.0	23429.9	27079.5	31245.9	32619.6	32025.7	27995.3	28004.4	18651.4
50°	14031.7	13972.7	15423.5	19050.4	24187.0	29359.9	31722.0	32184.4	27990.8	26812.0	17699.4
52.5°	7412.5	7666.4	8722.7	11977.9	17100.9	24028.4	27981.7	28702.5	27002.4	24862.5	16330.2
55°	3150.9	2847.1	3658.7	5408.6	9620.4	16053.7	20528.4	22133.3	22831.5	22001.8	14285.5
57.5°	1124.3	1228.6	1414.5	2035.6	4044.0	8786.2	12240.9	13487.6	15817.9	16144.3	9733.7
60°	720.9	734.5	793.4	933.9	1518.8	3386.6	5807.6	6800.5	7856.8	8110.7	4542.7
62.5°	557.6	562.2	589.4	612.0	720.9	1314.8	2180.7	2584.2	2683.9	2307.6	1192.4
65°	467.0	471.5	480.6	480.6	512.3	616.6	761.7	838.7	816.1	807.0	675.5
67.5°	358.2	367.2	385.4	385.4	403.5	376.3	421.6	448.8	507.8	616.6	575.8
70°	281.1	285.6	299.2	308.3	308.3	272.0	303.8	331.0	371.8	457.9	453.4
72.5°	217.6	226.7	235.7	235.7	222.1	185.9	217.6	240.3	267.5	317.4	308.3
75°	167.7	167.7	172.3	140.5	108.8	95.2	131.5	158.7	199.5	208.5	172.3
77.5°	45.3	49.9	45.3	40.8	45.3	68.0	86.1	99.7	126.9	126.9	113.3
80°	0.0	4.5	13.6	27.2	45.3	63.5	77.1	86.1	99.7	108.8	104.3
82.5°	0.0	4.5	13.6	27.2	40.8	49.9	68.0	72.5	81.6	95.2	95.2
85°	0.0	4.5	9.1	18.1	27.2	31.7	31.7	27.2	27.2	22.7	18.1
87.5°	0.0	0.0	4.5	9.1	9.1	13.6	13.6	13.6	13.6	13.6	13.6
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°	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2	8981.2
2.5°	9026.5	8886.0	8672.9	8337.4	8015.5	7806.9	7607.5	7385.3	7262.9	7253.8	7185.8
5°	9135.3	8818.0	8310.2	7734.4	7117.8	6587.4	6052.4	5703.3	5390.5	5218.2	5186.5
7.5°	9194.2	8781.7	7961.1	6995.4	5943.6	5077.7	4479.2	4039.5	3867.2	3740.3	3735.7
10°	9316.7	8718.2	7439.7	6016.2	4715.0	3840.0	3427.4	3228.0	3132.8	3096.5	3042.1
12.5°	9407.3	8600.3	6904.8	5009.7	3726.7	3182.6	3001.3	2955.9	2960.5	2978.6	2955.9
15°	9534.3	8496.1	6183.9	4112.0	3128.2	2865.3	2865.3	2874.3	2937.8	2946.9	2942.3
17.5°	9525.2	8292.0	5440.4	3386.6	2765.5	2729.3	2742.9	2829.0	2869.8	2883.4	2851.7
20°	9634.0	8101.6	4674.2	2892.5	2561.5	2615.9	2706.6	2729.3	2779.1	2788.2	2751.9
22.5°	9602.3	7625.6	3962.4	2502.6	2407.4	2511.6	2602.3	2629.5	2615.9	2588.7	2584.2
25°	9543.3	7217.6	3309.6	2244.2	2294.0	2407.4	2493.5	2443.6	2416.4	2421.0	2425.5
27.5°	9439.1	6700.7	2770.1	2062.8	2139.9	2307.6	2303.1	2285.0	2312.2	2289.5	2312.2
30°	9420.9	6183.9	2325.8	1899.6	2026.5	2149.0	2158.0	2189.8	2221.5	2180.7	2221.5
32.5°	9448.1	5617.2	2008.4	1799.9	1958.5	1963.1	2062.8	2094.5	2071.9	1981.2	1990.3
35°	9656.7	5182.0	1777.2	1745.5	1849.7	1854.3	1949.5	1908.7	1808.9	1754.5	1786.3
37.5°	10096.4	4819.3	1668.4	1695.6	1704.7	1763.6	1768.1	1686.5	1695.6	1691.1	1709.2
40°	10658.6	4542.7	1591.3	1650.2	1641.2	1682.0	1518.8	1564.1	1604.9	1618.5	1627.6
42.5°	11044.0	4343.2	1541.4	1577.7	1559.6	1487.0	1396.4	1441.7	1473.4	1523.3	1532.4
45°	11216.3	4184.6	1482.5	1450.8	1450.8	1319.3	1283.0	1292.1	1364.6	1419.0	1410.0
47.5°	10935.2	4030.4	1378.2	1283.0	1314.8	1206.0	1165.1	1165.1	1242.2	1310.2	1296.6
48°	10826.4	3966.9	1382.8	1246.8	1269.4	1187.8	1147.0	1137.9	1224.1	1287.6	1287.6
50°	10286.9	3731.2	1264.9	1147.0	1101.7	1092.6	1065.4	1074.5	1128.9	1187.8	1187.8
52.5°	9235.0	3223.4	1069.9	983.8	902.2	956.6	970.2	952.1	979.3	1033.7	1029.1
55°	7707.2	2475.4	856.9	816.1	752.6	811.5	838.7	816.1	788.9	829.7	829.7
57.5°	4937.1	1332.9	684.6	693.6	630.2	689.1	711.8	657.4	607.5	639.2	634.7
60°	2226.0	797.9	562.2	548.6	507.8	575.8	612.0	548.6	480.6	503.2	525.9
62.5°	834.2	566.7	426.2	417.1	408.0	471.5	489.6	439.8	371.8	385.4	389.9
65°	612.0	498.7	340.0	308.3	326.4	371.8	362.7	312.8	267.5	267.5	276.6
67.5°	521.4	435.2	276.6	240.3	240.3	244.8	226.7	199.5	185.9	194.9	204.0
70°	408.0	344.6	217.6	185.9	167.7	149.6	131.5	126.9	113.3	126.9	122.4
72.5°	263.0	231.2	167.7	140.5	126.9	104.3	86.1	81.6	68.0	63.5	63.5
75°	140.5	140.5	131.5	113.3	99.7	81.6	68.0	54.4	36.3	27.2	27.2
77.5°	99.7	108.8	117.9	108.8	90.7	68.0	54.4	36.3	18.1	9.1	9.1
80°	95.2	108.8	117.9	104.3	90.7	68.0	49.9	27.2	13.6	4.5	4.5
82.5°	86.1	99.7	108.8	95.2	81.6	58.9	45.3	27.2	13.6	4.5	4.5
85°	18.1	22.7	27.2	27.2	31.7	40.8	31.7	22.7	9.1	4.5	4.5
87.5°	13.6	13.6	13.6	13.6	13.6	13.6	9.1	9.1	4.5	4.5	4.5
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)