

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: P531451

Luminaire Tested: **GALN-SA6D-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531451
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-SA6D-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 31165 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

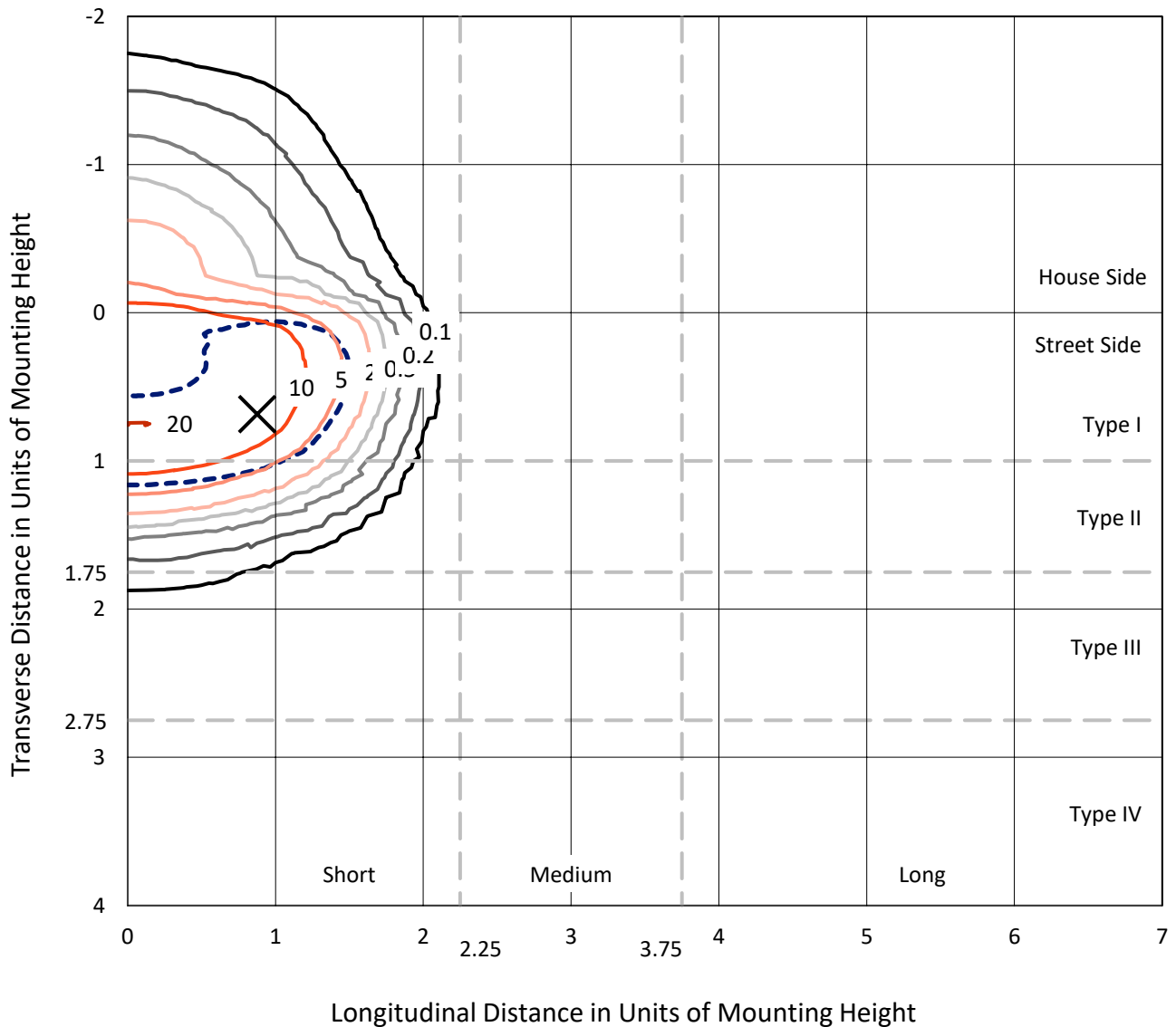
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

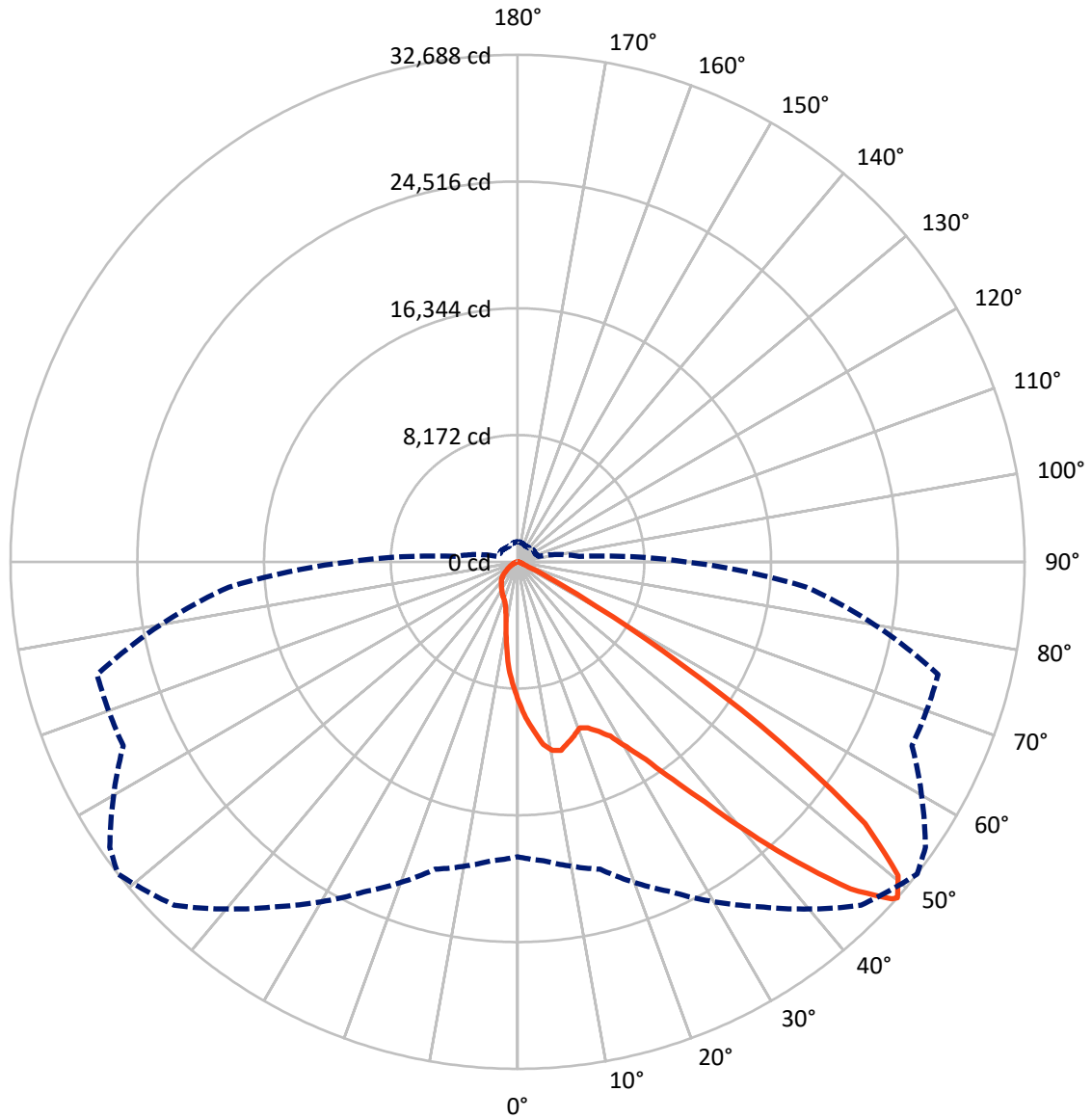
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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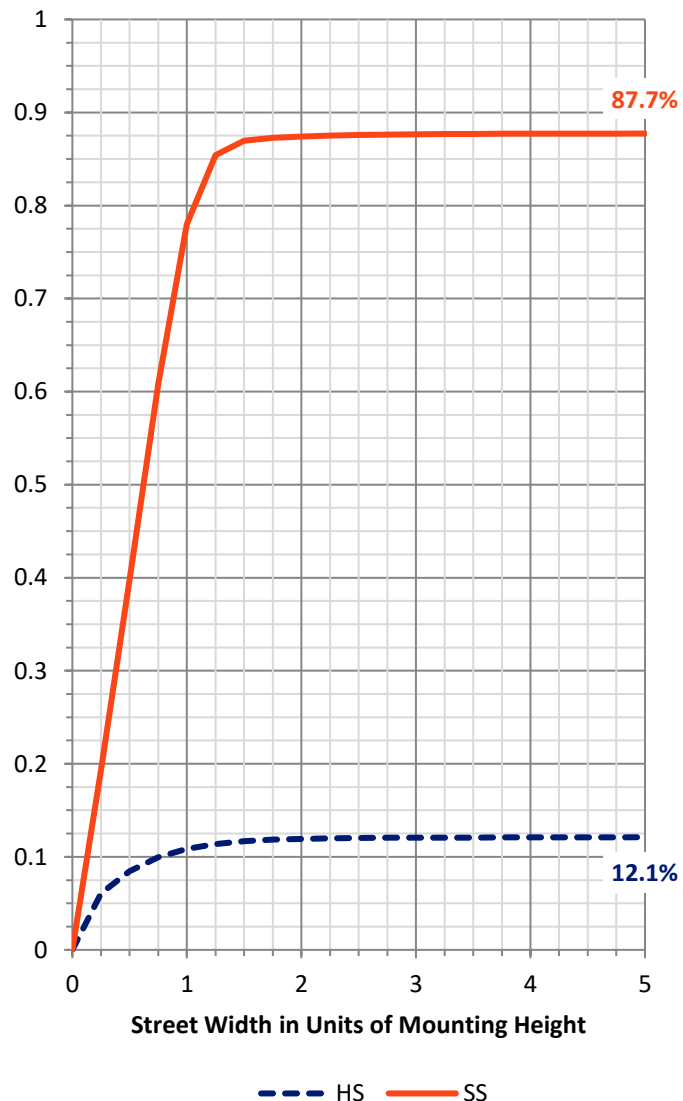
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3794.6	0.0	3794.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	27370.4	0.0	27370.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	31165.0	0.0	31165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.8	2.6
10°-20°	2152.8	6.9
20°-30°	3675.6	11.8
30°-40°	6768.7	21.7
40°-50°	10511.8	33.7
50°-60°	6326.3	20.3
60°-70°	731.7	2.3
70°-80°	141.6	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°	31165.0	100.0
0°-180°	31165.0	100.0

Coefficient of Utilization



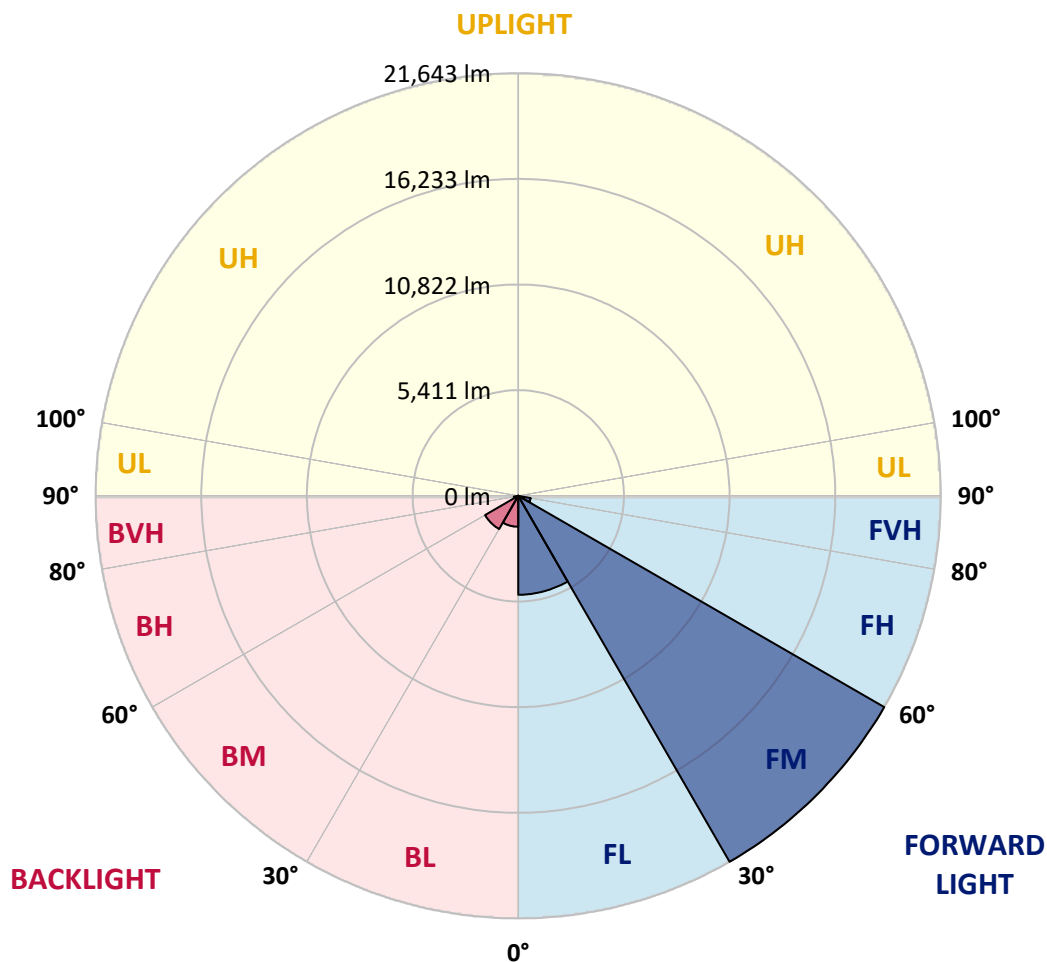
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5067.0	16.3			
FM (30°-60°)	21643.5	69.4			
FH (60°-80°)	644.3	2.1			G0/660
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1585.1	5.1	B3/2500		
BM (30°-60°)	1963.3	6.3	B2/2500		
BH (60°-80°)	229.0	0.7	B1/500		G1/500
BVH (80°-90°)	17.2	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°	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9
2.5°	10908.0	10658.2	10680.9	10517.3	10421.9	10267.5	10058.5	10017.6	9790.4	9481.5	9168.0
5°	11889.4	11830.3	11907.5	11671.3	11680.4	11426.0	10935.3	10944.4	10421.9	9917.6	9431.5
7.5°	11953.0	11816.7	11893.9	12102.9	12225.6	12180.1	11903.0	11662.2	11167.0	10426.5	9717.7
10°	10703.6	10962.6	11044.3	11389.6	11880.3	12398.2	12366.4	12380.0	11966.6	10998.9	9963.1
12.5°	9954.0	9781.4	10058.5	10267.5	11008.0	12012.0	12470.9	12570.8	12602.6	11553.2	10208.4
15°	9613.3	9613.3	9658.7	9717.7	10253.8	11180.6	12116.5	12407.3	13093.3	12280.1	10594.6
17.5°	9826.8	9817.7	9881.3	9758.6	9958.5	10671.8	11789.4	12121.1	13643.0	12993.3	10899.0
20°	10476.5	10508.3	10467.4	10113.0	10126.6	10662.7	11426.0	11948.4	14015.5	13611.2	11303.3
22.5°	11380.5	11398.7	11167.0	10780.8	10667.3	10930.8	11634.9	12034.7	14315.4	14351.7	11426.0
25°	12425.5	12352.8	12307.3	11762.2	11416.9	11644.0	12107.4	12339.1	14501.7	14987.8	11775.8
27.5°	13874.7	13729.3	13452.2	12966.1	12711.7	12389.1	12720.8	13102.4	15033.2	15878.2	12157.4
30°	16014.5	15887.3	15346.7	14719.7	14051.9	13733.9	13838.4	14047.3	15991.8	16909.5	12661.7
32.5°	19235.6	18967.6	18186.1	16991.3	16082.7	15205.8	15178.6	15401.2	16850.5	18336.1	13261.4
35°	22783.8	22702.0	21552.6	20321.4	18563.2	17209.4	17232.1	17350.2	18495.1	20207.8	14047.3
37.5°	25141.7	25591.4	24860.0	23537.9	22061.4	20126.1	19635.4	19676.3	20753.0	22424.9	15464.8
40°	26963.5	26581.8	26668.2	26359.2	25350.6	24033.1	22947.3	22733.8	23365.3	24878.2	16873.2
42.5°	26168.4	26186.6	26718.1	27449.6	27699.4	27604.0	26495.5	26091.2	25600.5	26886.2	18213.4
45°	23924.1	24392.0	25082.6	27018.0	28717.1	30311.7	30093.7	29421.3	27145.2	28476.3	18985.7
47.5°	20344.1	20325.9	21457.2	23974.1	27749.4	31483.9	32474.3	32001.8	28240.1	28299.1	18826.7
48°	19022.1	19349.2	20516.8	23478.9	27136.1	31311.2	32687.8	32092.6	28053.8	28062.9	18690.4
50°	14061.0	14001.9	15455.7	19090.2	24237.6	29421.3	31788.3	32251.7	28049.3	26868.1	17736.4
52.5°	7428.0	7682.4	8741.0	12002.9	17136.7	24078.6	28040.2	28762.5	27058.9	24914.5	16364.3
55°	3157.5	2853.1	3666.3	5420.0	9640.5	16087.2	20571.3	22179.5	22879.2	22047.8	14315.4
57.5°	1126.7	1231.2	1417.5	2039.9	4052.5	8804.6	12266.4	13515.8	15851.0	16178.1	9754.1
60°	722.4	736.0	795.0	935.9	1521.9	3393.7	5819.7	6814.7	7873.2	8127.7	4552.2
62.5°	558.8	563.3	590.6	613.3	722.4	1317.5	2185.2	2589.6	2689.5	2312.5	1194.8
65°	467.9	472.5	481.6	481.6	513.4	617.9	763.2	840.5	817.8	808.7	676.9
67.5°	358.9	368.0	386.2	386.2	404.3	377.1	422.5	449.8	508.8	617.9	577.0
70°	281.7	286.2	299.8	308.9	308.9	272.6	304.4	331.6	372.5	458.9	454.3
72.5°	218.1	227.2	236.2	236.2	222.6	186.3	218.1	240.8	268.0	318.0	308.9
75°	168.1	168.1	172.6	140.8	109.0	95.4	131.8	159.0	199.9	209.0	172.6
77.5°	45.4	50.0	45.4	40.9	45.4	68.1	86.3	99.9	127.2	127.2	113.6
80°	0.0	4.5	13.6	27.3	45.4	63.6	77.2	86.3	99.9	109.0	104.5
82.5°	0.0	4.5	13.6	27.3	40.9	50.0	68.1	72.7	81.8	95.4	95.4
85°	0.0	4.5	9.1	18.2	27.3	31.8	31.8	27.3	27.3	22.7	18.2
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°	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9	8999.9
2.5°	9045.4	8904.5	8691.0	8354.8	8032.2	7823.3	7623.4	7400.8	7278.1	7269.0	7200.9
5°	9154.4	8836.4	8327.6	7750.6	7132.7	6601.2	6065.1	5715.3	5401.8	5229.1	5197.3
7.5°	9213.5	8800.0	7977.7	7010.0	5956.0	5088.3	4488.6	4047.9	3875.3	3748.1	3743.5
10°	9336.1	8736.4	7455.3	6028.7	4724.9	3848.0	3434.6	3234.7	3139.3	3103.0	3048.4
12.5°	9427.0	8618.3	6919.2	5020.2	3734.5	3189.3	3007.6	2962.1	2966.7	2984.8	2962.1
15°	9554.2	8513.8	6196.8	4120.6	3134.8	2871.3	2871.3	2880.3	2943.9	2953.0	2948.5
17.5°	9545.1	8309.4	5451.8	3393.7	2771.3	2735.0	2748.6	2834.9	2875.8	2889.4	2857.6
20°	9654.1	8118.6	4684.0	2898.5	2566.9	2621.4	2712.2	2735.0	2784.9	2794.0	2757.7
22.5°	9622.3	7641.5	3970.7	2507.8	2412.4	2516.9	2607.8	2635.0	2621.4	2594.1	2589.6
25°	9563.3	7232.7	3316.5	2248.8	2298.8	2412.4	2498.7	2448.7	2421.5	2426.0	2430.6
27.5°	9458.8	6714.7	2775.9	2067.1	2144.4	2312.5	2307.9	2289.7	2317.0	2294.3	2317.0
30°	9440.6	6196.8	2330.6	1903.6	2030.8	2153.4	2162.5	2194.3	2226.1	2185.2	2226.1
32.5°	9467.9	5628.9	2012.6	1803.6	1962.6	1967.2	2067.1	2098.9	2076.2	1985.3	1994.4
35°	9676.9	5192.8	1780.9	1749.1	1853.6	1858.1	1953.5	1912.7	1812.7	1758.2	1790.0
37.5°	10117.5	4829.3	1671.9	1699.1	1708.2	1767.3	1771.8	1690.0	1699.1	1694.6	1712.8
40°	10680.9	4552.2	1594.6	1653.7	1644.6	1685.5	1521.9	1567.4	1608.3	1621.9	1631.0
42.5°	11067.1	4352.3	1544.7	1581.0	1562.8	1490.1	1399.3	1444.7	1476.5	1526.5	1535.6
45°	11239.7	4193.3	1485.6	1453.8	1453.8	1322.0	1285.7	1294.8	1367.5	1422.0	1412.9
47.5°	10958.0	4038.8	1381.1	1285.7	1317.5	1208.5	1167.6	1167.6	1244.8	1313.0	1299.3
48°	10849.0	3975.2	1385.7	1249.4	1272.1	1190.3	1149.4	1140.3	1226.6	1290.2	1290.2
50°	10308.4	3739.0	1267.5	1149.4	1104.0	1094.9	1067.6	1076.7	1131.2	1190.3	1190.3
52.5°	9254.3	3230.2	1072.2	985.9	904.1	958.6	972.2	954.1	981.3	1035.8	1031.3
55°	7723.3	2480.5	858.7	817.8	754.2	813.2	840.5	817.8	790.5	831.4	831.4
57.5°	4947.5	1335.7	686.0	695.1	631.5	690.6	713.3	658.8	608.8	640.6	636.0
60°	2230.7	799.6	563.3	549.7	508.8	577.0	613.3	549.7	481.6	504.3	527.0
62.5°	835.9	567.9	427.1	418.0	408.9	472.5	490.7	440.7	372.5	386.2	390.7
65°	613.3	499.7	340.7	308.9	327.1	372.5	363.5	313.5	268.0	268.0	277.1
67.5°	522.5	436.1	277.1	240.8	240.8	245.3	227.2	199.9	186.3	195.4	204.4
70°	408.9	345.3	218.1	186.3	168.1	149.9	131.8	127.2	113.6	127.2	122.7
72.5°	263.5	231.7	168.1	140.8	127.2	104.5	86.3	81.8	68.1	63.6	63.6
75°	140.8	140.8	131.8	113.6	99.9	81.8	68.1	54.5	36.3	27.3	27.3
77.5°	99.9	109.0	118.1	109.0	90.9	68.1	54.5	36.3	18.2	9.1	9.1
80°	95.4	109.0	118.1	104.5	90.9	68.1	50.0	27.3	13.6	4.5	4.5
82.5°	86.3	99.9	109.0	95.4	81.8	59.1	45.4	27.3	13.6	4.5	4.5
85°	18.2	22.7	27.3	27.3	31.8	40.9	31.8	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)