

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: P651002

Luminaire Tested: **GALN-SA7C-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651002
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-SA7C-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 30721.8 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

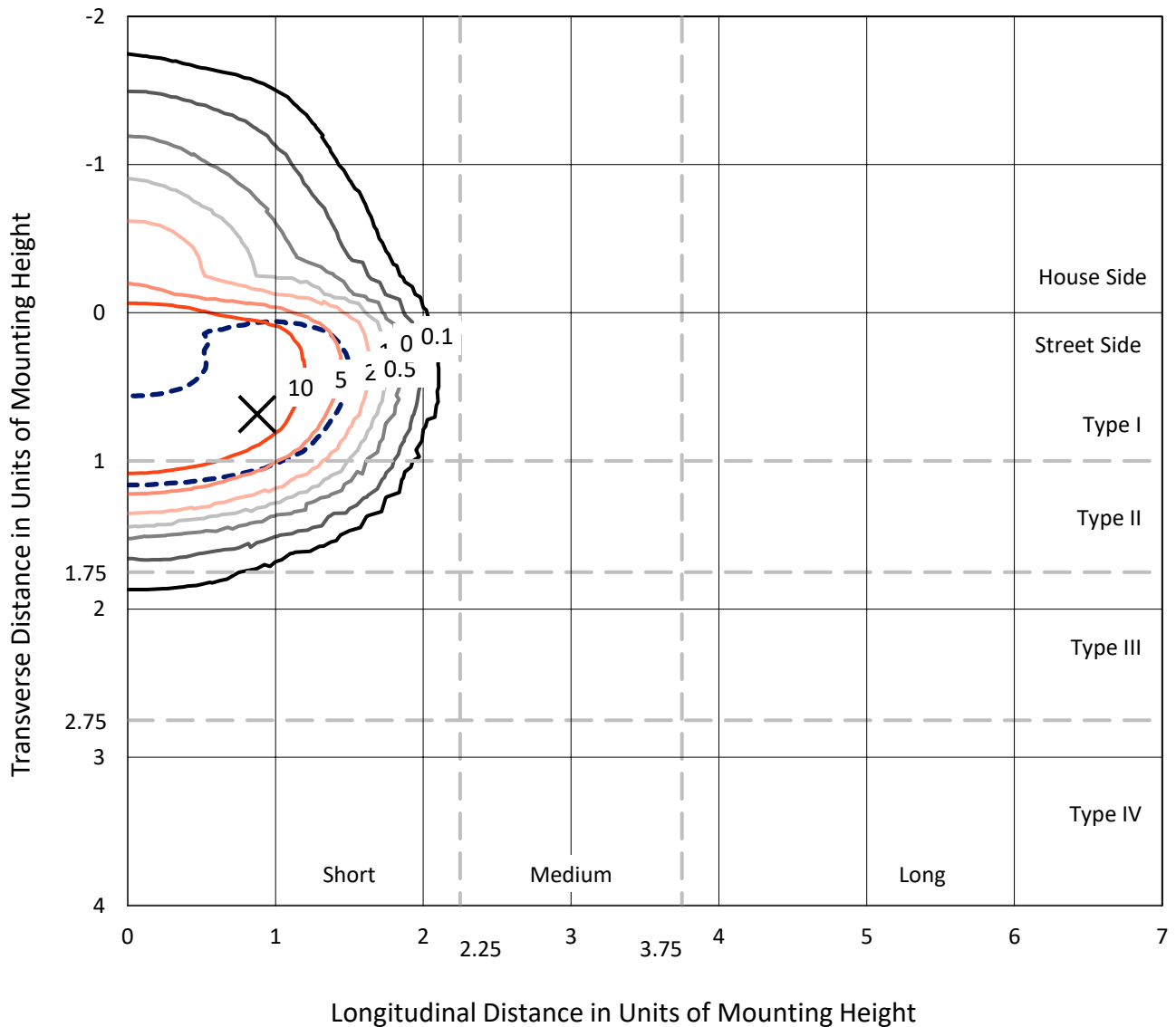
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

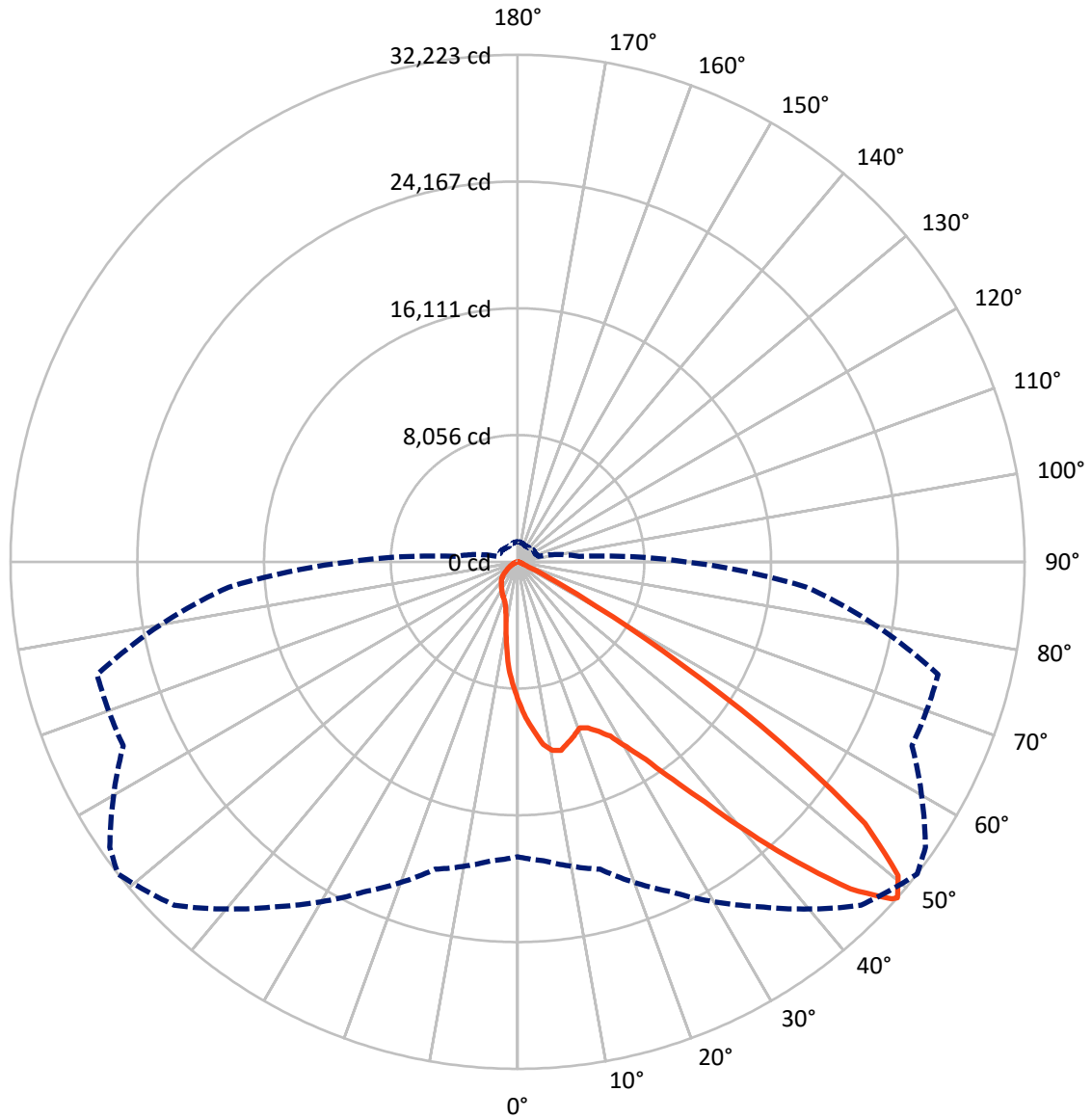
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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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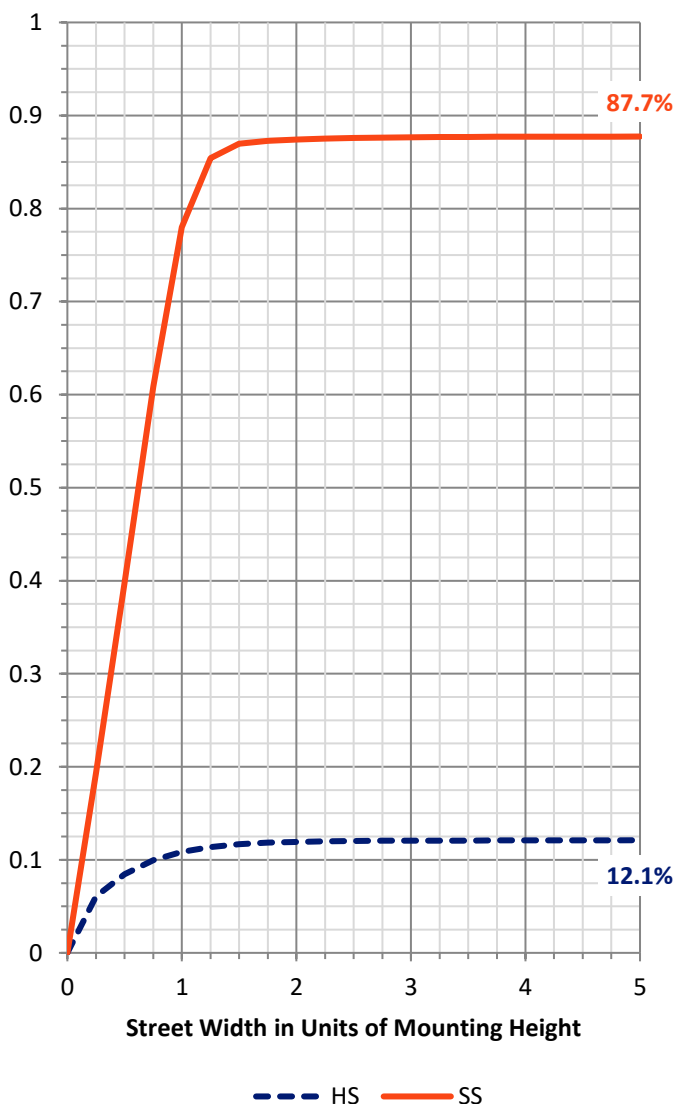
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3740.6	0.0	3740.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	26981.1	0.0	26981.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	30721.8	0.0	30721.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.0	2.6
10°-20°	2122.1	6.9
20°-30°	3623.4	11.8
30°-40°	6672.4	21.7
40°-50°	10362.3	33.7
50°-60°	6236.3	20.3
60°-70°	721.3	2.3
70°-80°	139.6	0.5
80°-90°	32.3	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°	30721.8	100.0
0°-180°	30721.8	100.0

Coefficient of Utilization

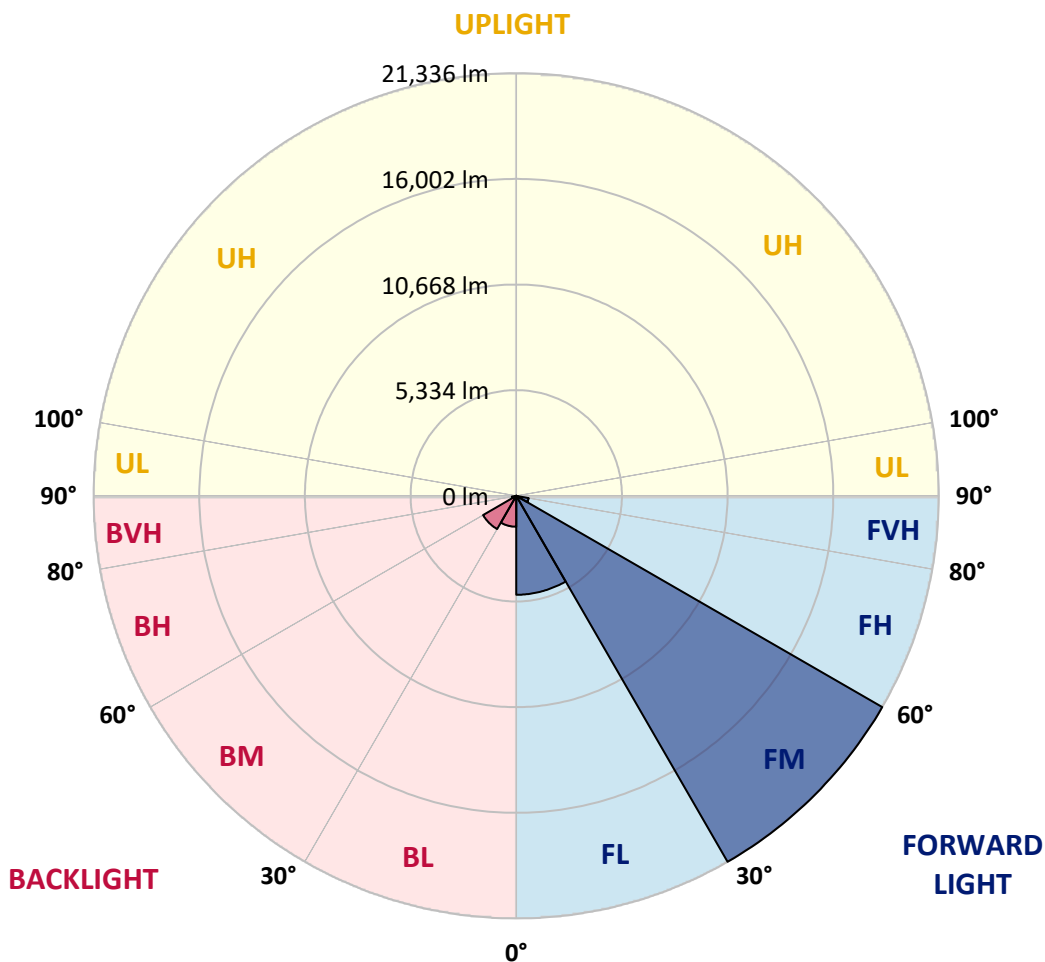


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4995.0	16.3			
FM (30°-60°)	21335.6	69.4			
FH (60°-80°)	635.1	2.1			G0/660
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	1562.6	5.1	B3/2500		
BM (30°-60°)	1935.3	6.3	B2/2500		
BH (60°-80°)	225.8	0.7	B1/500		G1/500
BVH (80°-90°)	16.9	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°	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0
2.5°	10752.9	10506.6	10529.0	10367.8	10273.7	10121.4	9915.4	9875.1	9651.1	9346.6	9037.6
5°	11720.3	11662.1	11738.2	11505.3	11514.2	11263.4	10779.8	10788.8	10273.7	9776.6	9297.4
7.5°	11782.9	11648.6	11724.7	11930.8	12051.7	12006.9	11733.7	11496.3	11008.2	10278.2	9579.5
10°	10551.4	10806.7	10887.2	11227.6	11711.3	12221.8	12190.5	12203.9	11796.4	10842.5	9821.4
12.5°	9812.5	9642.2	9915.4	10121.4	10851.4	11841.2	12293.5	12392.1	12423.4	11388.8	10063.2
15°	9476.6	9476.6	9521.3	9579.5	10108.0	11021.6	11944.2	12230.8	12907.1	12105.4	10443.9
17.5°	9687.0	9678.1	9740.7	9619.9	9816.9	10520.0	11621.7	11948.7	13448.9	12808.5	10743.9
20°	10327.5	10358.8	10318.5	9969.1	9982.6	10511.1	11263.4	11778.5	13816.2	13417.7	11142.5
22.5°	11218.7	11236.6	11008.2	10627.5	10515.5	10775.3	11469.5	11863.6	14111.8	14147.6	11263.4
25°	12248.7	12177.1	12132.3	11594.9	11254.5	11478.4	11935.2	12163.6	14295.4	14774.6	11608.3
27.5°	13677.4	13534.0	13260.9	12781.7	12530.9	12212.9	12539.8	12916.0	14819.3	15652.4	11984.5
30°	15786.7	15661.4	15128.4	14510.4	13852.0	13538.5	13641.5	13847.6	15764.4	16669.0	12481.6
32.5°	18962.0	18697.8	17927.4	16749.6	15853.9	14989.6	14962.7	15182.2	16610.8	18075.3	13072.8
35°	22459.7	22379.1	21246.0	20032.4	18299.2	16964.6	16987.0	17103.4	18232.0	19920.4	13847.6
37.5°	24784.1	25227.5	24506.4	23203.2	21747.7	19839.8	19356.1	19396.4	20457.8	22105.9	15244.8
40°	26580.0	26203.8	26288.8	25984.3	24990.1	23691.3	22621.0	22410.5	23033.0	24524.3	16633.2
42.5°	25796.2	25814.2	26338.1	27059.2	27305.5	27211.4	26118.7	25720.1	25236.4	26503.8	17954.3
45°	23583.8	24045.1	24725.8	26633.7	28308.6	29880.6	29665.6	29002.8	26759.1	28071.3	18715.7
47.5°	20054.7	20036.8	21152.0	23633.1	27354.7	31036.1	32012.4	31546.6	27838.4	27896.6	18558.9
48°	18751.5	19074.0	20225.0	23144.9	26750.1	30865.9	32222.8	31636.1	27654.8	27663.8	18424.5
50°	13861.0	13802.7	15235.9	18818.7	23892.8	29002.8	31336.2	31792.9	27650.3	26485.9	17484.1
52.5°	7322.3	7573.1	8616.6	11832.2	16892.9	23736.1	27641.3	28353.5	26674.0	24560.1	16131.6
55°	3112.5	2812.5	3614.2	5342.9	9503.4	15858.4	20278.7	21864.1	22553.8	21734.2	14111.8
57.5°	1110.7	1213.6	1397.3	2010.8	3994.8	8679.4	12092.0	13323.5	15625.5	15948.0	9615.3
60°	712.1	725.5	783.7	922.6	1500.3	3345.4	5737.0	6717.7	7761.3	8012.0	4487.5
62.5°	550.9	555.3	582.2	604.6	712.1	1298.8	2154.1	2552.8	2651.3	2279.5	1177.8
65°	461.3	465.7	474.7	474.7	506.0	609.1	752.4	828.6	806.1	797.2	667.3
67.5°	353.8	362.7	380.6	380.6	398.5	371.7	416.5	443.4	501.6	609.1	568.8
70°	277.7	282.2	295.6	304.5	304.5	268.7	300.1	326.9	367.3	452.3	447.8
72.5°	215.0	224.0	232.9	232.9	219.4	183.6	215.0	237.3	264.2	313.5	304.5
75°	165.7	165.7	170.2	138.8	107.5	94.0	129.9	156.8	197.0	206.0	170.2
77.5°	44.8	49.3	44.8	40.3	44.8	67.2	85.1	98.6	125.4	125.4	111.9
80°	0.0	4.5	13.5	26.9	44.8	62.7	76.1	85.1	98.6	107.5	103.0
82.5°	0.0	4.5	13.5	26.9	40.3	49.3	67.2	71.7	80.7	94.0	94.0
85°	0.0	4.5	9.0	17.9	26.9	31.4	31.4	26.9	26.9	22.4	17.9
87.5°	0.0	0.0	4.5	9.0	9.0	13.5	13.5	13.5	13.5	13.5	13.5
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°	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0	8872.0
2.5°	8916.7	8777.9	8567.4	8236.0	7918.0	7712.0	7514.9	7295.5	7174.6	7165.6	7098.5
5°	9024.2	8710.7	8209.1	7640.3	7031.3	6507.2	5978.8	5633.9	5325.0	5154.7	5123.4
7.5°	9082.4	8674.8	7864.3	6910.3	5871.4	5015.9	4424.8	3990.4	3820.2	3694.8	3690.3
10°	9203.3	8612.2	7349.2	5943.0	4657.6	3793.3	3385.8	3188.7	3094.6	3058.8	3005.1
12.5°	9292.9	8495.7	6820.8	4948.8	3681.3	3143.9	2964.8	2920.0	2924.5	2942.4	2920.0
15°	9418.3	8392.8	6108.7	4062.0	3090.2	2830.4	2830.4	2839.4	2902.0	2911.0	2906.6
17.5°	9409.4	8191.2	5374.2	3345.4	2731.9	2696.1	2709.5	2794.6	2834.9	2848.3	2817.0
20°	9516.8	8003.1	4617.3	2857.3	2530.3	2584.1	2673.7	2696.1	2745.4	2754.3	2718.4
22.5°	9485.5	7532.8	3914.2	2472.1	2378.1	2481.1	2570.7	2597.5	2584.1	2557.2	2552.8
25°	9427.3	7129.7	3269.3	2216.9	2266.2	2378.1	2463.2	2413.9	2387.0	2391.6	2396.0
27.5°	9324.3	6619.3	2736.4	2037.7	2113.9	2279.5	2275.1	2257.2	2284.1	2261.6	2284.1
30°	9306.3	6108.7	2297.4	1876.5	2001.9	2122.9	2131.8	2163.1	2194.5	2154.1	2194.5
32.5°	9333.2	5548.8	1984.0	1778.0	1934.7	1939.2	2037.7	2069.1	2046.7	1957.1	1966.1
35°	9539.2	5118.9	1755.6	1724.2	1827.2	1831.7	1925.7	1885.4	1787.0	1733.2	1764.5
37.5°	9973.7	4760.6	1648.1	1674.9	1683.9	1742.1	1746.6	1666.0	1674.9	1670.5	1688.4
40°	10529.0	4487.5	1572.0	1630.2	1621.2	1661.6	1500.3	1545.1	1585.4	1598.8	1607.8
42.5°	10909.6	4290.4	1522.7	1558.5	1540.6	1469.0	1379.4	1424.1	1455.5	1504.8	1513.7
45°	11079.8	4133.7	1464.4	1433.1	1433.1	1303.2	1267.4	1276.4	1348.0	1401.8	1392.8
47.5°	10802.1	3981.4	1361.5	1267.4	1298.8	1191.3	1151.0	1151.0	1227.1	1294.3	1280.8
48°	10694.7	3918.7	1366.0	1231.6	1254.0	1173.4	1133.1	1124.1	1209.2	1271.9	1271.9
50°	10161.7	3685.9	1249.5	1133.1	1088.3	1079.3	1052.4	1061.4	1115.2	1173.4	1173.4
52.5°	9122.7	3184.2	1057.0	971.9	891.2	944.9	958.4	940.5	967.3	1021.1	1016.6
55°	7613.5	2445.3	846.5	806.1	743.4	801.6	828.6	806.1	779.3	819.6	819.6
57.5°	4877.1	1316.7	676.2	685.2	622.5	680.7	703.2	649.4	600.1	631.5	627.0
60°	2199.0	788.2	555.3	541.9	501.6	568.8	604.6	541.9	474.7	497.1	519.5
62.5°	824.0	559.9	421.0	412.0	403.1	465.7	483.7	434.4	367.3	380.6	385.2
65°	604.6	492.7	335.9	304.5	322.4	367.3	358.3	309.0	264.2	264.2	273.2
67.5°	515.0	429.9	273.2	237.3	237.3	241.9	224.0	197.0	183.6	192.6	201.5
70°	403.1	340.4	215.0	183.6	165.7	147.8	129.9	125.4	111.9	125.4	120.9
72.5°	259.8	228.4	165.7	138.8	125.4	103.0	85.1	80.7	67.2	62.7	62.7
75°	138.8	138.8	129.9	111.9	98.6	80.7	67.2	53.7	35.8	26.9	26.9
77.5°	98.6	107.5	116.5	107.5	89.6	67.2	53.7	35.8	17.9	9.0	9.0
80°	94.0	107.5	116.5	103.0	89.6	67.2	49.3	26.9	13.5	4.5	4.5
82.5°	85.1	98.6	107.5	94.0	80.7	58.2	44.8	26.9	13.5	4.5	4.5
85°	17.9	22.4	26.9	26.9	31.4	40.3	31.4	22.4	9.0	4.5	4.5
87.5°	13.5	13.5	13.5	13.5	13.5	13.5	9.0	9.0	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)