

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: P652102

Luminaire Tested: **GALN-SA9A-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652102
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-SA9A-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 26009.6 lumens
Efficiency: N/A
Efficacy: 94.9 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

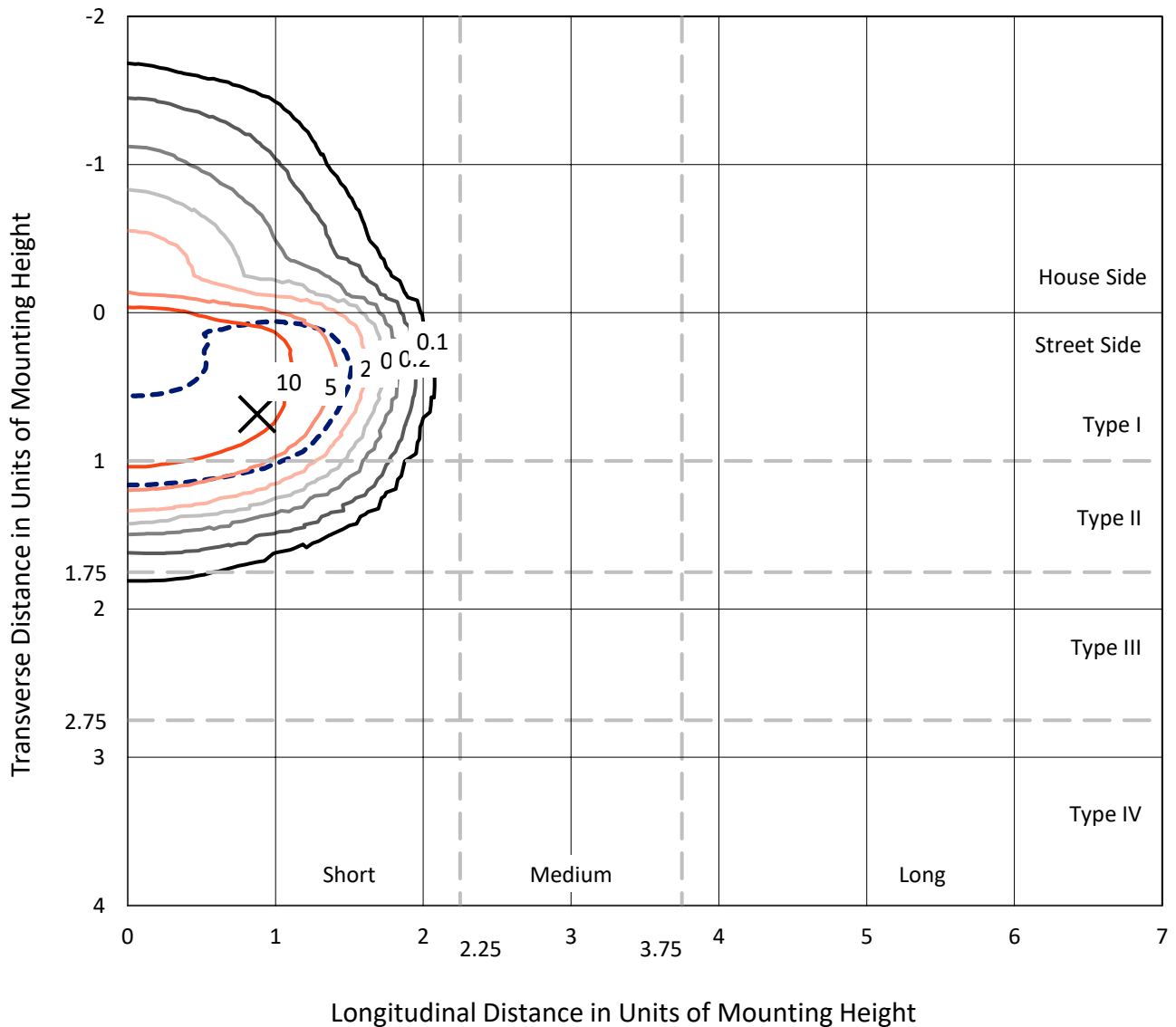
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

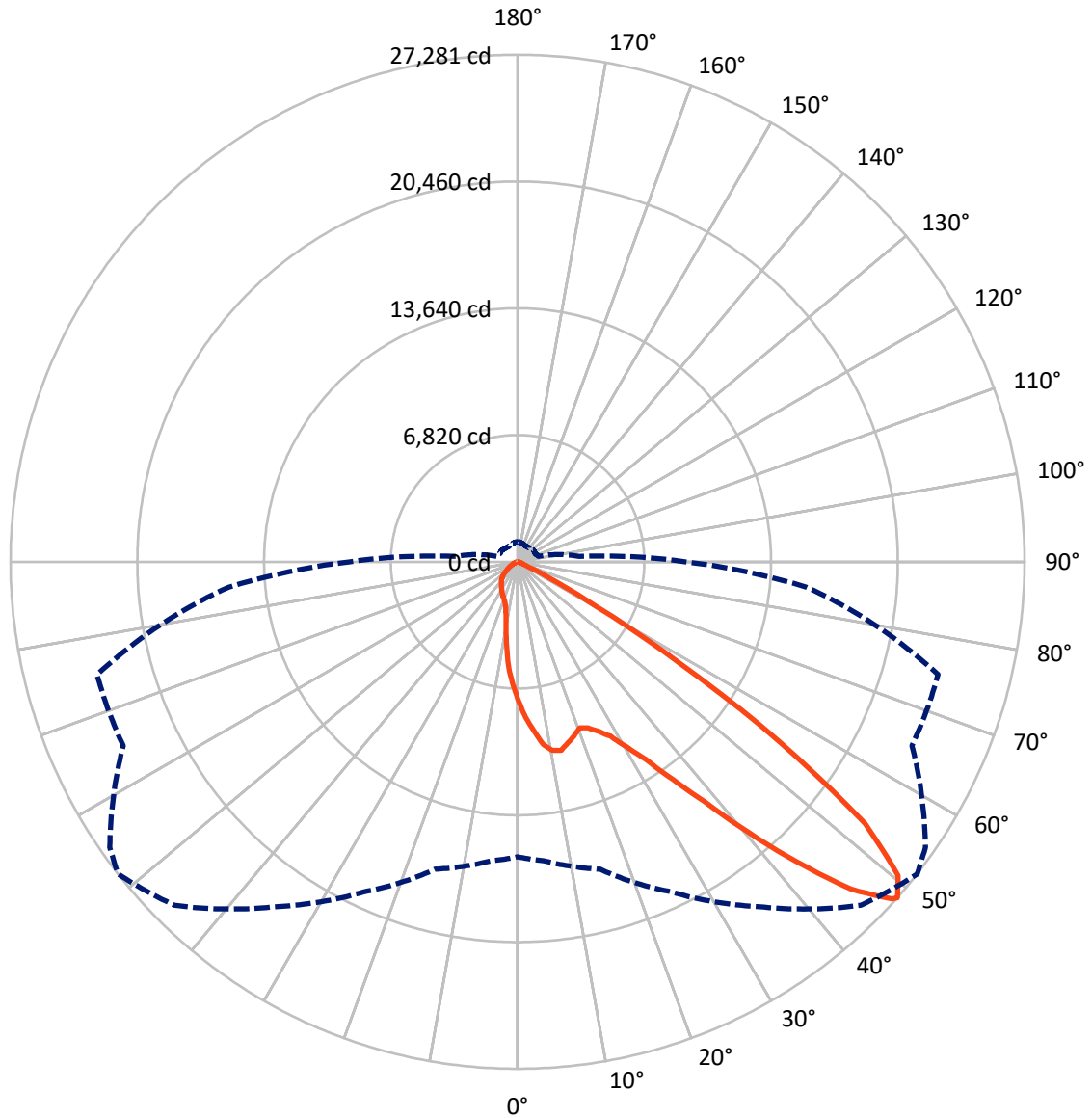
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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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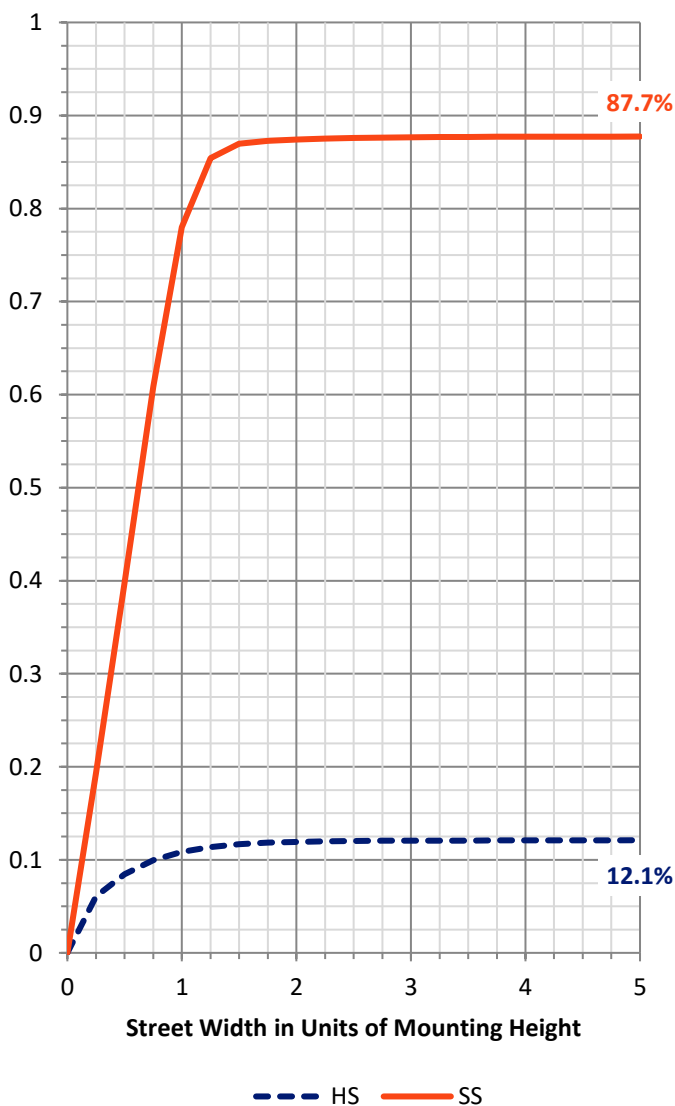
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3166.9	0.0	3166.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	22842.7	0.0	22842.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	26009.6	0.0	26009.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.5	2.6
10°-20°	1796.6	6.9
20°-30°	3067.6	11.8
30°-40°	5649.0	21.7
40°-50°	8772.9	33.7
50°-60°	5279.8	20.3
60°-70°	610.7	2.3
70°-80°	118.2	0.5
80°-90°	27.3	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°	26009.6	100.0
0°-180°	26009.6	100.0

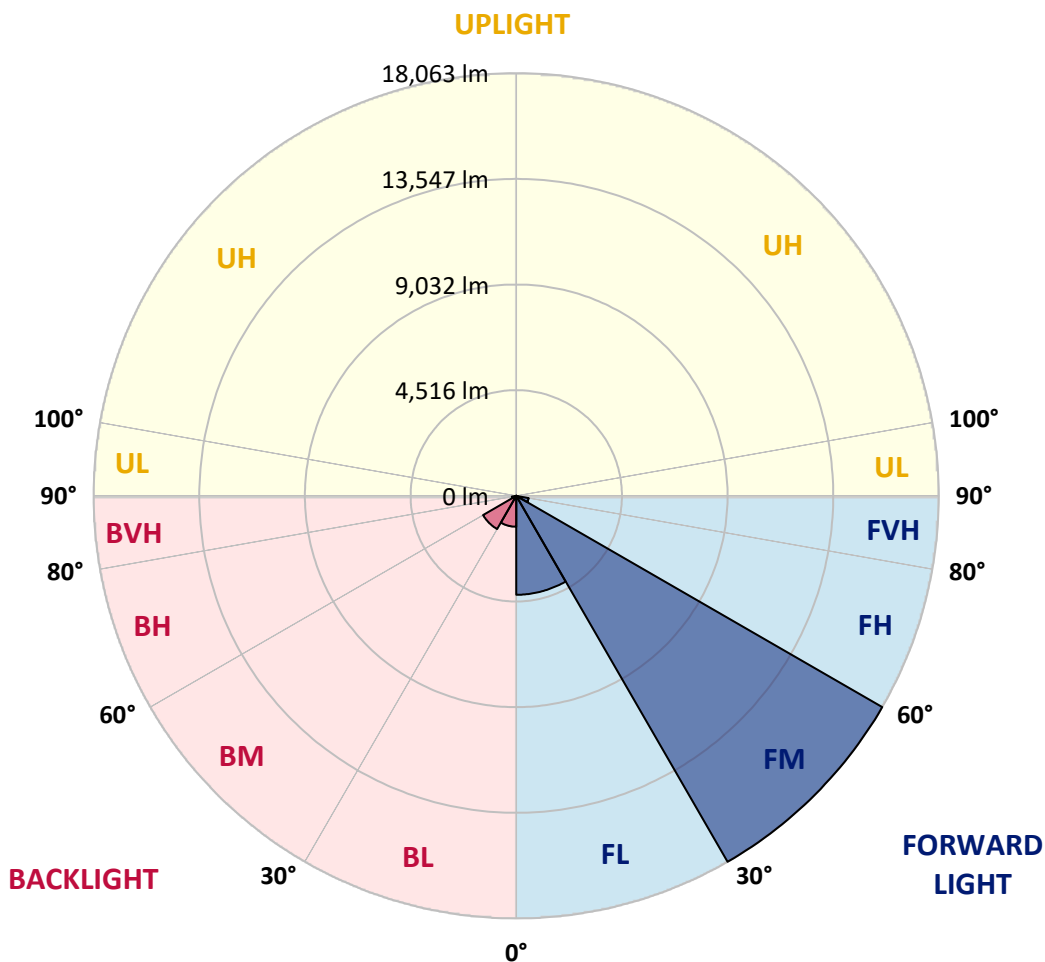


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4228.8	16.3			
FM (30°-60°)	18063.2	69.4			
FH (60°-80°)	537.7	2.1			G0/660
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	1322.9	5.1	B3/2500		
BM (30°-60°)	1638.5	6.3	B2/2500		
BH (60°-80°)	191.1	0.7	B1/500		G1/500
BVH (80°-90°)	14.3	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°	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1
2.5°	9103.6	8895.1	8914.0	8777.5	8697.9	8569.0	8394.6	8360.5	8170.9	7913.1	7651.4
5°	9922.6	9873.3	9937.8	9740.6	9748.2	9535.8	9126.4	9133.9	8697.9	8277.0	7871.3
7.5°	9975.7	9861.9	9926.4	10100.8	10203.2	10165.3	9934.0	9733.0	9319.7	8701.7	8110.2
10°	8933.0	9149.1	9217.4	9505.5	9915.0	10347.2	10320.8	10332.1	9987.0	9179.4	8315.0
12.5°	8307.4	8163.3	8394.6	8569.0	9187.0	10025.0	10407.9	10491.3	10517.9	9642.0	8519.7
15°	8023.0	8023.0	8060.9	8110.2	8557.6	9331.1	10112.2	10354.8	10927.4	10248.7	8842.0
17.5°	8201.2	8193.6	8246.7	8144.3	8311.2	8906.4	9839.2	10116.0	11386.1	10843.9	9096.0
20°	8743.4	8769.9	8735.8	8440.1	8451.5	8898.9	9535.8	9971.9	11697.0	11359.6	9433.5
22.5°	9497.9	9513.1	9319.7	8997.4	8902.7	9122.6	9710.3	10043.9	11947.3	11977.6	9535.8
25°	10370.0	10309.3	10271.4	9816.4	9528.3	9717.8	10104.6	10298.0	12102.7	12508.4	9827.8
27.5°	11579.6	11458.2	11226.9	10821.2	10608.9	10339.7	10616.4	10934.9	12546.4	13251.6	10146.3
30°	13365.3	13259.2	12808.0	12284.7	11727.4	11462.0	11549.2	11723.6	13346.4	14112.3	10567.2
32.5°	16053.6	15829.9	15177.8	14180.5	13422.2	12690.4	12667.7	12853.5	14063.0	15302.8	11067.6
35°	19014.8	18946.6	17987.3	16959.8	15492.5	14362.5	14381.5	14480.1	15435.5	16865.0	11723.6
37.5°	20982.7	21358.0	20747.6	19644.2	18411.9	16796.8	16387.2	16421.4	17320.0	18715.3	12906.6
40°	22503.1	22184.6	22256.6	21998.8	21157.1	20057.5	19151.3	18973.1	19500.2	20762.8	14082.0
42.5°	21839.6	21854.7	22298.4	22908.8	23117.3	23037.7	22112.6	21775.1	21365.6	22438.6	15200.5
45°	19966.5	20357.1	20933.4	22548.6	23966.6	25297.5	25115.5	24554.3	22654.8	23765.7	15845.0
47.5°	16978.8	16963.6	17907.7	20008.2	23159.0	26275.7	27102.3	26708.0	23568.5	23617.8	15712.3
48°	15875.4	16148.4	17122.8	19595.0	22647.2	26131.6	27280.5	26783.8	23413.1	23420.7	15598.6
50°	11735.0	11685.7	12899.0	15932.2	20228.2	24554.3	26529.8	26916.5	23409.3	22423.5	14802.4
52.5°	6199.3	6411.6	7295.0	10017.4	14301.9	20095.4	23401.7	24004.6	22582.7	20793.1	13657.3
55°	2635.2	2381.1	3059.8	4523.4	8045.8	13426.1	17168.3	18510.6	19094.5	18400.6	11947.3
57.5°	940.3	1027.5	1183.0	1702.4	3382.1	7348.1	10237.3	11280.0	13228.8	13501.8	8140.5
60°	602.8	614.3	663.5	781.0	1270.2	2832.3	4857.0	5687.3	6570.8	6783.2	3799.1
62.5°	466.3	470.1	492.9	511.8	602.8	1099.5	1823.8	2161.2	2244.6	1929.9	997.2
65°	390.6	394.3	401.9	401.9	428.5	515.6	637.0	701.5	682.5	674.9	565.0
67.5°	299.6	307.1	322.3	322.3	337.5	314.7	352.6	375.3	424.6	515.6	481.6
70°	235.1	238.8	250.3	257.9	257.9	227.5	254.1	276.8	310.9	383.0	379.1
72.5°	182.0	189.6	197.1	197.1	185.8	155.4	182.0	200.9	223.7	265.4	257.9
75°	140.3	140.3	144.1	117.6	91.0	79.6	109.9	132.7	166.9	174.4	144.1
77.5°	37.9	41.7	37.9	34.1	37.9	56.9	72.1	83.4	106.1	106.1	94.8
80°	0.0	3.8	11.4	22.8	37.9	53.1	64.4	72.1	83.4	91.0	87.2
82.5°	0.0	3.8	11.4	22.8	34.1	41.7	56.9	60.6	68.3	79.6	79.6
85°	0.0	3.8	7.6	15.1	22.8	26.6	26.6	22.8	22.8	18.9	15.1
87.5°	0.0	0.0	3.8	7.6	7.6	11.4	11.4	11.4	11.4	11.4	11.4
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°	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1	7511.1
2.5°	7549.1	7431.5	7253.3	6972.7	6703.5	6529.1	6362.2	6176.5	6074.1	6066.6	6009.7
5°	7640.1	7374.6	6950.0	6468.5	5952.8	5509.2	5061.8	4769.8	4508.2	4364.1	4337.5
7.5°	7689.3	7344.3	6658.0	5850.4	4970.8	4246.5	3746.1	3378.3	3234.2	3128.1	3124.2
10°	7791.7	7291.2	6222.0	5031.5	3943.3	3211.4	2866.5	2699.6	2620.0	2589.7	2544.2
12.5°	7867.6	7192.7	5774.6	4189.7	3116.7	2661.7	2510.0	2472.1	2475.9	2491.0	2472.1
15°	7973.7	7105.4	5171.7	3438.9	2616.2	2396.3	2396.3	2403.8	2457.0	2464.6	2460.8
17.5°	7966.1	6934.8	4549.9	2832.3	2312.8	2282.6	2293.9	2366.0	2400.0	2411.5	2384.9
20°	8057.1	6775.6	3909.1	2419.1	2142.3	2187.8	2263.6	2282.6	2324.3	2331.8	2301.5
22.5°	8030.6	6377.5	3313.9	2093.0	2013.4	2100.6	2176.3	2199.1	2187.8	2165.0	2161.2
25°	7981.3	6036.2	2767.9	1876.9	1918.6	2013.4	2085.3	2043.6	2020.9	2024.7	2028.5
27.5°	7894.1	5604.0	2316.7	1725.1	1789.6	1929.9	1926.1	1910.9	1933.7	1914.8	1933.7
30°	7878.9	5171.7	1945.1	1588.6	1694.9	1797.2	1804.8	1831.4	1857.9	1823.8	1857.9
32.5°	7901.7	4697.7	1679.6	1505.2	1637.9	1641.8	1725.1	1751.7	1732.8	1656.9	1664.5
35°	8076.1	4333.8	1486.3	1459.7	1546.9	1550.7	1630.4	1596.2	1512.9	1467.4	1493.9
37.5°	8443.9	4030.5	1395.3	1418.1	1425.7	1474.9	1478.7	1410.4	1418.1	1414.2	1429.4
40°	8914.0	3799.1	1330.9	1380.2	1372.6	1406.7	1270.2	1308.1	1342.2	1353.6	1361.2
42.5°	9236.3	3632.4	1289.2	1319.4	1304.3	1243.7	1167.8	1205.7	1232.2	1273.9	1281.6
45°	9380.4	3499.7	1239.9	1213.3	1213.3	1103.4	1073.0	1080.6	1141.2	1186.7	1179.2
47.5°	9145.3	3370.7	1152.7	1073.0	1099.5	1008.5	974.5	974.5	1038.9	1095.7	1084.4
48°	9054.3	3317.7	1156.5	1042.7	1061.7	993.4	959.2	951.7	1023.7	1076.8	1076.8
50°	8603.1	3120.4	1057.9	959.2	921.3	913.7	891.0	898.6	944.1	993.4	993.4
52.5°	7723.5	2695.8	894.8	822.8	754.5	800.0	811.4	796.3	819.0	864.5	860.7
55°	6445.7	2070.2	716.6	682.5	629.4	678.7	701.5	682.5	659.8	693.8	693.8
57.5°	4129.1	1114.7	572.6	580.1	527.1	576.3	595.3	549.8	508.0	534.6	530.8
60°	1861.6	667.3	470.1	458.8	424.6	481.6	511.8	458.8	401.9	420.8	439.8
62.5°	697.7	474.0	356.4	348.8	341.3	394.3	409.5	367.8	310.9	322.3	326.1
65°	511.8	417.1	284.3	257.9	273.0	310.9	303.3	261.6	223.7	223.7	231.3
67.5°	436.1	364.0	231.3	200.9	200.9	204.8	189.6	166.9	155.4	163.1	170.6
70°	341.3	288.1	182.0	155.4	140.3	125.1	109.9	106.1	94.8	106.1	102.3
72.5°	219.9	193.3	140.3	117.6	106.1	87.2	72.1	68.3	56.9	53.1	53.1
75°	117.6	117.6	109.9	94.8	83.4	68.3	56.9	45.5	30.4	22.8	22.8
77.5°	83.4	91.0	98.6	91.0	75.9	56.9	45.5	30.4	15.1	7.6	7.6
80°	79.6	91.0	98.6	87.2	75.9	56.9	41.7	22.8	11.4	3.8	3.8
82.5°	72.1	83.4	91.0	79.6	68.3	49.3	37.9	22.8	11.4	3.8	3.8
85°	15.1	18.9	22.8	22.8	26.6	34.1	26.6	18.9	7.6	3.8	3.8
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	7.6	7.6	3.8	3.8	3.8
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)