

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: P652087

Luminaire Tested: **GALN-SA8A-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31781.4 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

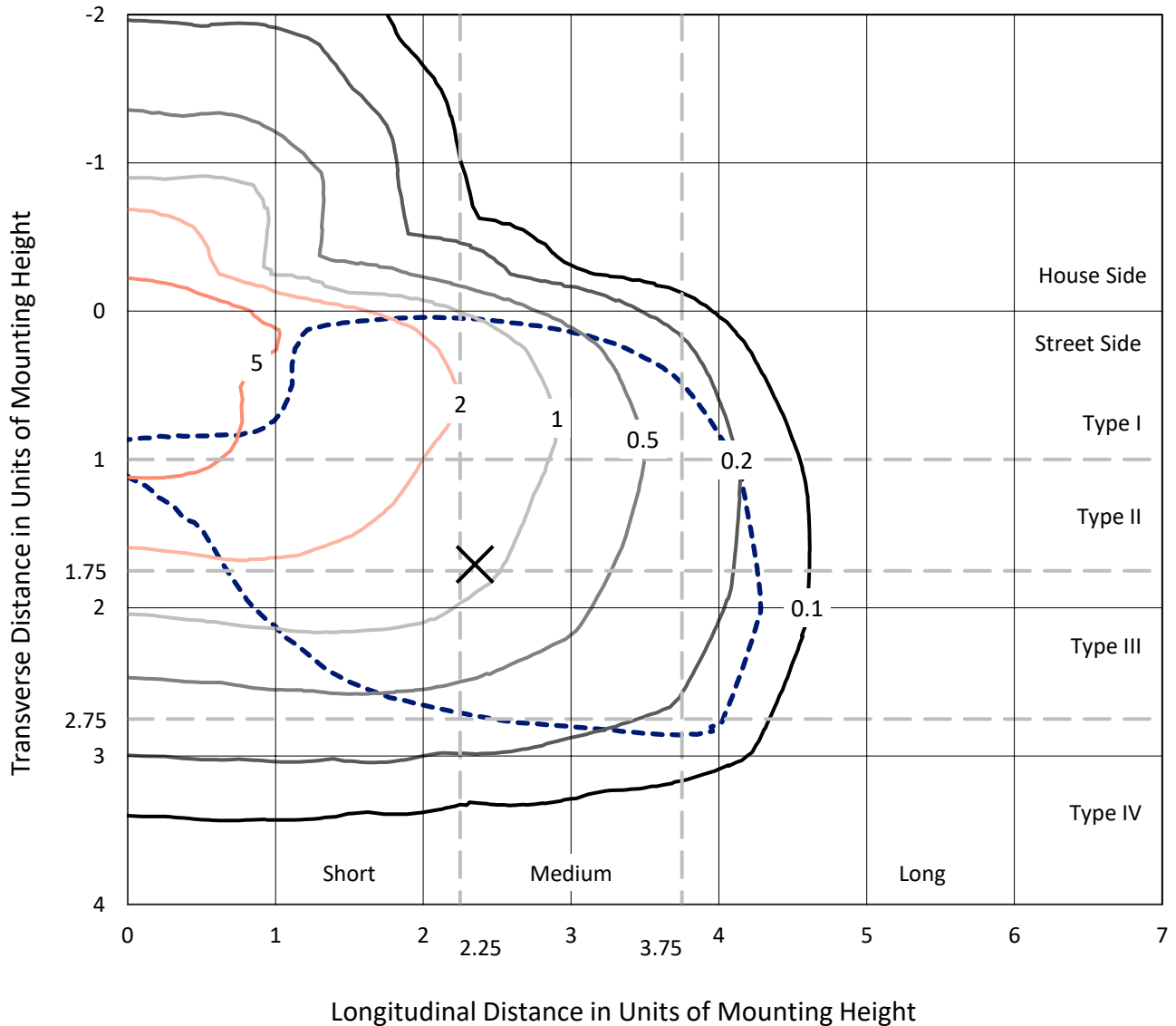
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

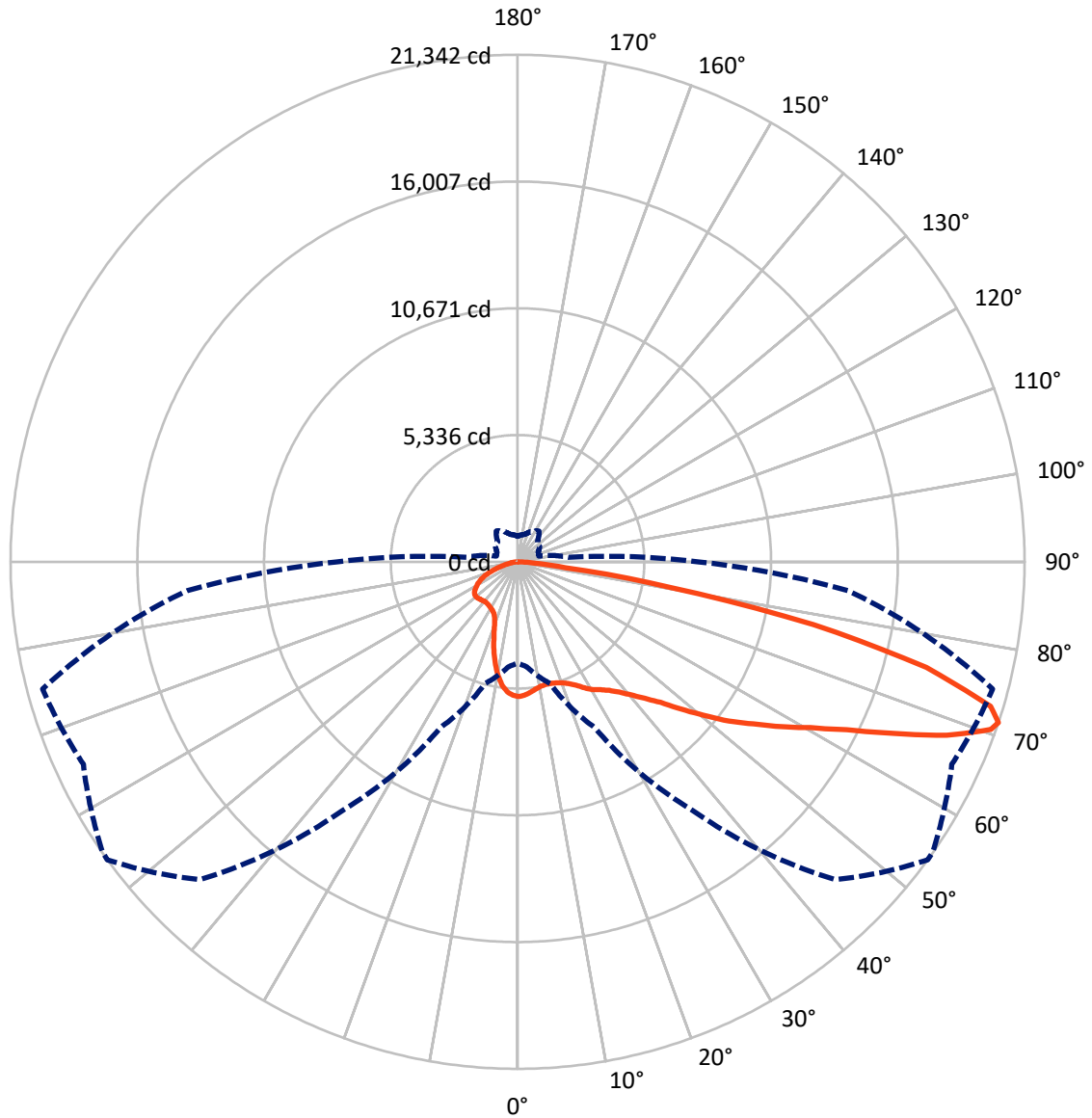
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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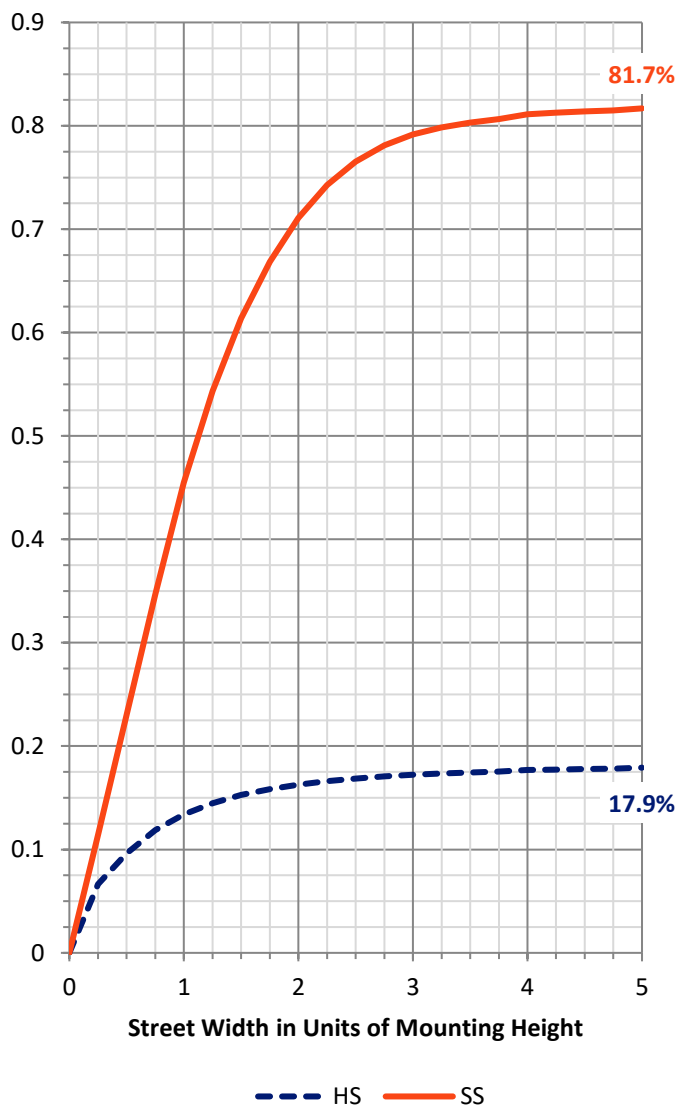
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5737.9	0.0	5737.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26043.5	0.0	26043.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	31781.4	0.0	31781.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.3	1.6
10°-20°	1334.3	4.2
20°-30°	2221.6	7.0
30°-40°	3285.0	10.3
40°-50°	4627.1	14.6
50°-60°	6195.9	19.5
60°-70°	7809.4	24.6
70°-80°	5333.8	16.8
80°-90°	469.1	1.5
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°	31781.4	100.0
0°-180°	31781.4	100.0

Coefficient of Utilization

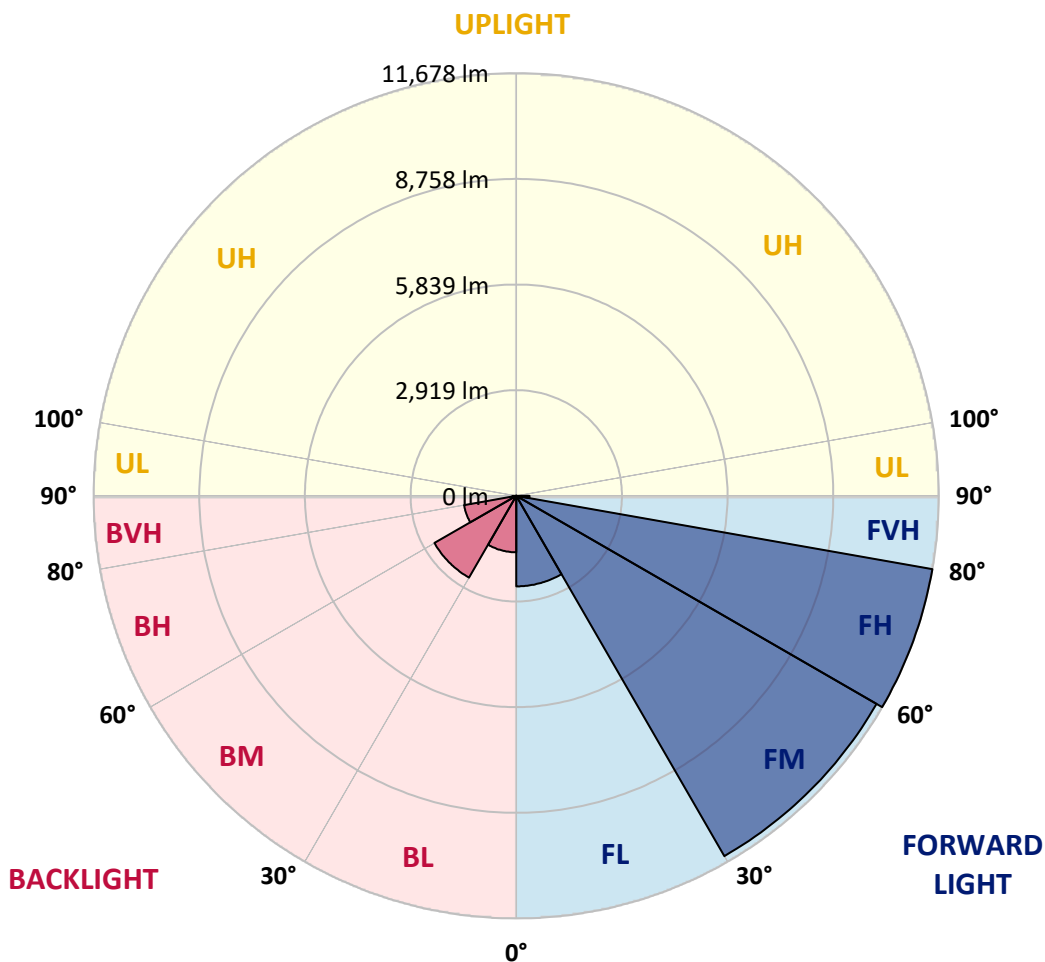


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2501.7	7.9			
FM (30°-60°)	11497.4	36.2			
FH (60°-80°)	11677.7	36.7			G4/12000
FVH (80°-90°)	366.7	1.2			G3/500
BL (0°-30°)	1559.5	4.9	B3/2500		
BM (30°-60°)	2610.6	8.2	B3/5000		
BH (60°-80°)	1465.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	102.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3
2.5°	5478.0	5503.8	5510.7	5527.8	5563.8	5593.0	5622.2	5618.8	5659.9	5677.2	5692.6
5°	5234.2	5241.1	5266.8	5301.2	5364.7	5445.4	5524.4	5526.0	5627.4	5708.0	5747.6
7.5°	5055.7	5078.0	5095.2	5131.2	5198.1	5285.8	5411.1	5421.3	5601.6	5761.3	5845.4
10°	4938.9	4964.7	4983.6	5028.3	5095.2	5193.0	5328.7	5347.5	5582.7	5845.4	5993.1
12.5°	4832.6	4858.3	4875.4	4933.8	5021.4	5141.5	5294.3	5316.6	5589.6	5943.3	6154.4
15°	4897.7	4918.3	4911.5	4928.7	4987.0	5124.4	5308.1	5330.3	5615.4	6037.6	6314.1
17.5°	5187.9	5205.0	5148.4	5083.2	5055.7	5157.0	5350.9	5375.0	5666.8	6135.5	6477.1
20°	5615.4	5661.7	5538.1	5392.2	5260.0	5273.7	5440.3	5466.0	5738.9	6233.3	6643.6
22.5°	6171.5	6205.9	6054.8	5814.5	5570.7	5445.4	5574.1	5589.6	5847.1	6360.4	6825.6
25°	6825.6	6846.2	6636.8	6327.8	5975.8	5738.9	5757.8	5785.3	6025.6	6504.5	6986.9
27.5°	7460.8	7526.0	7284.0	6906.3	6442.8	6048.0	6010.2	6027.4	6219.6	6585.3	7098.5
30°	8214.4	8209.3	7953.5	7515.8	6921.8	6384.5	6248.8	6245.4	6324.3	6624.7	7179.3
32.5°	8815.3	8885.7	8635.1	8157.8	7469.3	6732.9	6413.6	6406.7	6405.1	6693.4	7299.5
35°	9498.5	9508.9	9278.8	8798.1	8061.7	7170.7	6643.6	6609.3	6569.8	6841.0	7462.5
37.5°	10109.7	10157.8	9946.6	9407.5	8643.6	7625.6	6959.5	6937.2	6817.1	7096.9	7723.4
40°	10586.9	10622.9	10495.9	9982.7	9216.9	8116.6	7361.2	7320.1	7174.1	7515.8	8071.9
42.5°	10743.1	10816.9	10866.7	10614.3	9876.2	8698.5	7855.6	7804.1	7692.5	8150.9	8473.7
45°	10755.1	10871.9	11134.5	11146.5	10538.8	9395.5	8432.5	8396.4	8387.8	8964.6	9038.5
47.5°	10664.1	10782.6	11223.8	11462.4	11129.4	10099.4	9265.0	9208.4	9213.6	9970.6	9671.9
50°	10444.5	10585.2	11120.8	11665.0	11591.2	10830.7	10144.0	10125.1	10231.5	11119.1	10329.4
52.5°	10030.7	10200.7	11014.4	11792.0	11934.5	11460.7	11143.1	11089.9	11359.4	12365.4	11048.7
55°	8885.7	9141.4	10624.7	11862.4	12260.7	12063.3	12042.7	12138.8	12495.9	13725.0	11840.1
57.5°	8288.2	8480.5	9778.3	11874.4	12672.7	12763.7	13093.3	13117.3	13742.2	15168.8	12734.5
60°	7962.1	8132.0	9314.8	11795.4	13247.8	13630.6	14168.0	14253.8	14959.4	16732.7	13661.5
62.5°	7677.1	7823.0	9036.7	11522.5	13896.7	14916.4	15560.2	15601.4	16341.3	18459.7	14576.5
65°	7005.9	7172.4	8477.1	11249.6	14456.4	16523.3	17407.4	17359.3	17812.5	19949.8	15149.9
67.5°	6101.2	6312.3	7431.6	10307.1	14732.7	18279.5	19488.0	19427.9	19264.9	20926.6	15314.7
70°	4945.8	5059.1	6094.3	8677.9	13628.9	19201.3	21130.9	21067.4	20164.4	21055.4	14535.3
71°	4255.7	4432.5	5306.3	7708.0	12710.5	18919.8	21342.1	21324.9	20166.1	20700.0	13948.2
72.5°	3321.8	3429.9	4202.5	5972.4	10803.2	17319.8	20820.2	20885.4	19728.3	19712.9	12738.0
75°	2101.2	2149.3	2636.9	3515.8	5927.8	12265.8	17773.0	17949.9	17517.3	16135.3	9472.8
77.5°	1220.5	1282.4	1579.4	2072.1	2561.3	6657.4	12717.3	12909.6	12171.5	8883.9	3878.0
80°	710.7	779.4	1040.3	1203.4	1176.0	2470.4	6475.4	6803.3	5270.3	2243.7	1088.4
82.5°	394.8	441.2	731.3	733.0	626.6	806.9	2037.7	2132.2	1503.8	904.7	444.6
85°	286.7	324.5	472.1	427.5	300.4	346.7	709.0	743.4	607.7	381.1	144.2
87.5°	101.3	144.2	259.2	206.0	82.4	72.1	204.3	166.5	154.5	106.5	32.6
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°	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3	5670.3
2.5°	5701.1	5704.6	5687.4	5656.6	5625.6	5586.2	5541.5	5507.2	5491.7	5490.0	5488.3
5°	5763.0	5771.5	5706.4	5610.2	5503.8	5373.3	5261.7	5134.6	5102.0	5050.5	5066.0
7.5°	5862.5	5857.4	5728.6	5524.4	5275.4	4999.1	4765.5	4630.0	4489.2	4449.7	4451.4
10°	6005.0	5972.4	5728.6	5349.3	4933.8	4523.5	4197.3	3991.3	3879.8	3787.0	3752.7
12.5°	6156.1	6073.7	5673.7	5103.8	4494.3	3991.3	3641.1	3363.0	3290.9	3215.4	3217.1
15°	6300.3	6162.9	5565.6	4758.7	4020.5	3423.1	3083.2	2916.7	2894.4	2903.0	2901.2
17.5°	6430.8	6226.5	5400.7	4374.1	3467.8	2935.6	2755.3	2767.3	2827.4	2870.3	2875.5
20°	6563.0	6264.3	5155.2	3859.2	2945.9	2640.3	2647.1	2741.6	2832.6	2890.9	2899.5
22.5°	6688.3	6281.4	4866.9	3361.3	2568.2	2515.0	2616.3	2717.5	2806.8	2863.4	2872.0
25°	6770.6	6241.9	4458.3	2841.2	2382.8	2470.4	2576.7	2662.6	2738.1	2796.5	2810.2
27.5°	6793.0	6114.9	3951.9	2420.6	2296.9	2427.4	2525.3	2588.8	2647.1	2702.0	2712.4
30°	6781.0	5927.8	3395.6	2173.3	2247.2	2377.7	2453.2	2499.5	2569.9	2612.8	2621.4
32.5°	6762.1	5709.7	2815.4	2041.2	2205.9	2331.3	2375.9	2417.1	2415.4	2398.2	2410.2
35°	6769.0	5448.8	2345.0	1962.2	2169.9	2296.9	2334.7	2283.2	2135.6	2128.7	2121.8
37.5°	6805.0	5191.3	2003.4	1907.2	2151.0	2291.8	2312.4	2075.5	1945.1	1884.9	1869.5
40°	6897.7	4890.9	1778.5	1866.1	2149.3	2331.3	2211.1	1970.8	1720.1	1603.4	1594.8
42.5°	7021.3	4595.6	1641.1	1840.3	2169.9	2391.4	2169.9	1823.1	1550.2	1481.5	1471.2
45°	7205.0	4257.4	1565.6	1828.2	2200.8	2413.7	2156.2	1715.0	1481.5	1426.6	1426.6
47.5°	7412.7	3934.7	1524.4	1819.7	2240.3	2398.2	2034.3	1680.7	1448.9	1455.8	1488.4
50°	7618.7	3654.9	1493.5	1800.8	2274.7	2389.6	1984.5	1679.0	1457.5	1545.0	1603.4
52.5°	7857.4	3457.4	1455.8	1769.9	2274.7	2334.7	1969.0	1713.3	1481.5	1507.2	1533.0
55°	8145.8	3395.6	1407.7	1702.9	2233.4	2197.4	1960.5	1763.1	1498.7	1438.6	1448.9
57.5°	8526.9	3495.2	1361.3	1618.8	2139.0	2054.9	1957.0	1776.8	1459.2	1409.4	1399.1
60°	8969.8	3692.7	1347.6	1533.0	2010.2	1933.0	1936.4	1737.3	1404.3	1352.7	1361.3
62.5°	9280.5	3811.1	1339.0	1467.8	1869.5	1799.1	1886.6	1689.2	1380.2	1335.6	1344.2
65°	9280.5	3666.8	1260.1	1368.2	1687.6	1637.8	1826.6	1629.2	1349.3	1297.8	1289.3
67.5°	8928.6	3246.3	1139.9	1218.9	1486.6	1454.1	1742.5	1557.0	1303.0	1263.5	1242.9
70°	8011.9	2461.8	988.8	1043.8	1232.6	1261.8	1634.3	1459.2	1225.8	1177.7	1146.8
71°	7608.4	2144.1	925.3	954.5	1134.8	1177.7	1582.8	1418.0	1191.4	1122.7	1067.8
72.5°	6830.8	1806.0	829.1	841.2	969.9	1047.2	1474.6	1339.0	1126.2	1028.3	966.5
75°	5189.6	1318.4	667.8	660.9	717.5	830.9	1248.0	1193.1	987.1	854.9	818.9
77.5°	2242.0	717.5	499.6	504.7	487.5	630.0	982.0	1024.8	846.3	695.3	662.6
80°	679.8	413.7	341.6	348.5	326.1	422.4	691.8	803.4	679.8	540.8	496.1
82.5°	348.5	247.2	233.5	230.0	207.7	238.6	418.9	549.3	485.8	338.2	298.7
85°	151.0	132.2	115.0	111.6	97.9	85.9	149.4	274.7	257.5	188.8	180.2
87.5°	37.8	34.3	22.3	20.6	12.0	1.7	0.0	0.0	0.0	0.0	0.0
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)