

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: P652145

Luminaire Tested: **GALN-SA9A-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34788.8 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

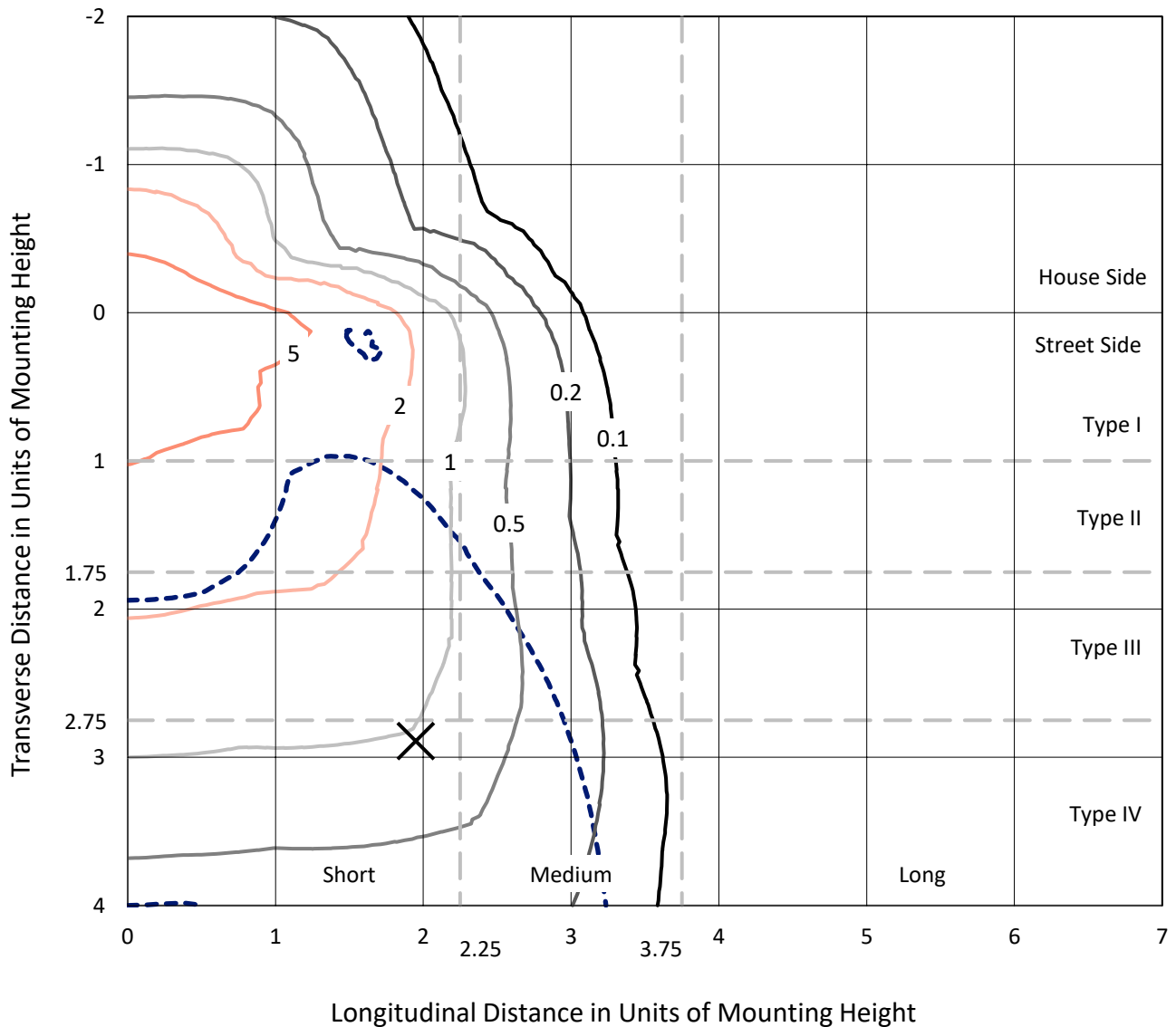
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

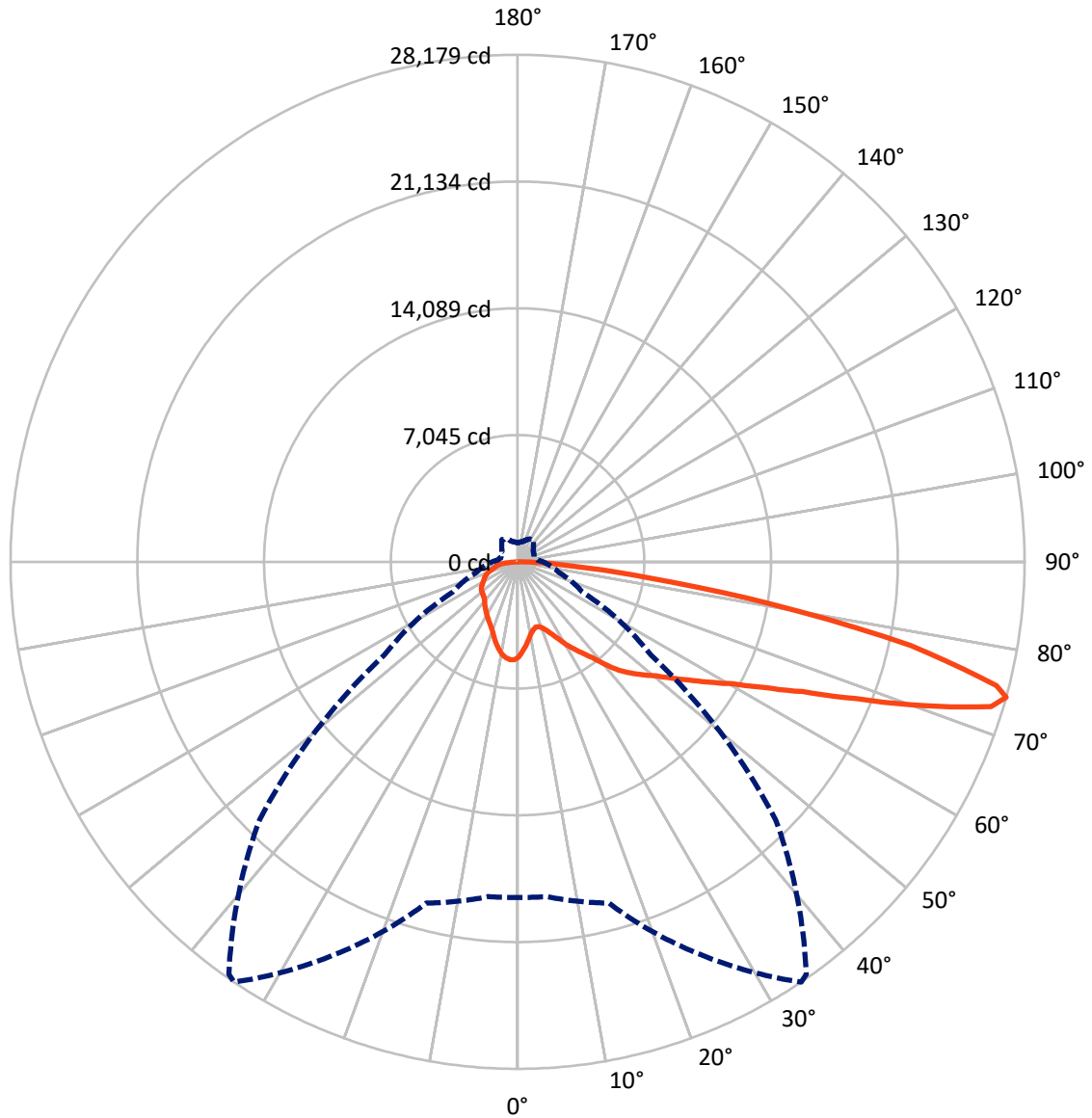
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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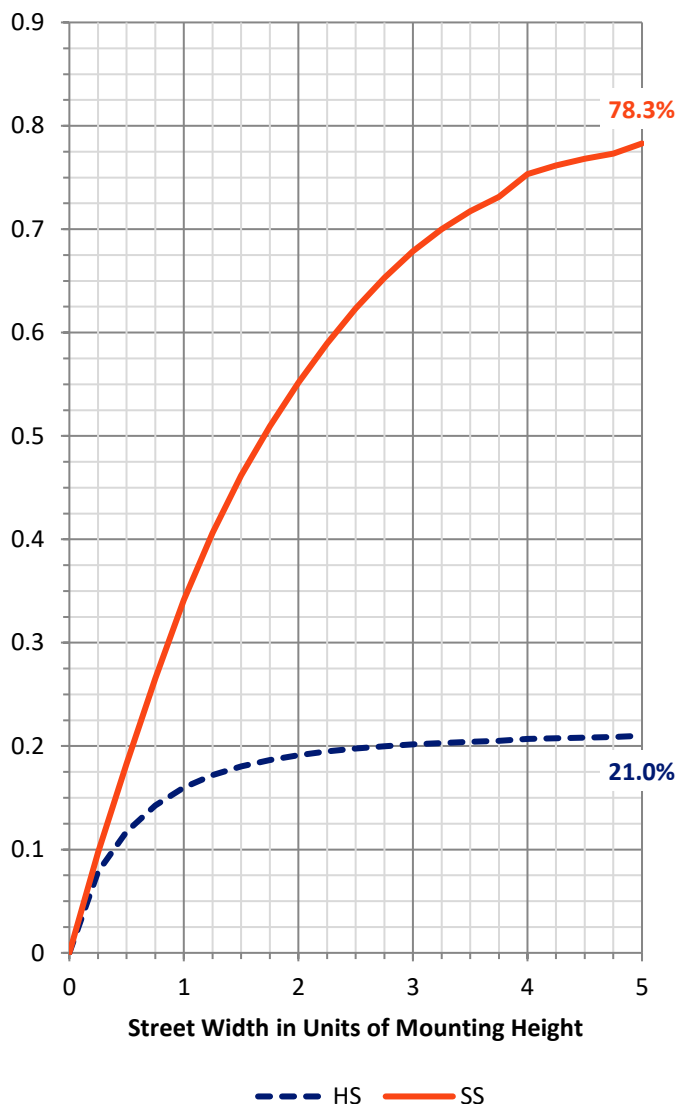
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7403.3	0.0	7403.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	27385.5	0.0	27385.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	34788.8	0.0	34788.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.1	1.4
10°-20°	1322.4	3.8
20°-30°	2180.2	6.3
30°-40°	3265.8	9.4
40°-50°	4747.5	13.6
50°-60°	6631.1	19.1
60°-70°	8301.8	23.9
70°-80°	6864.9	19.7
80°-90°	991.9	2.9
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°	34788.8	100.0
0°-180°	34788.8	100.0

Coefficient of Utilization



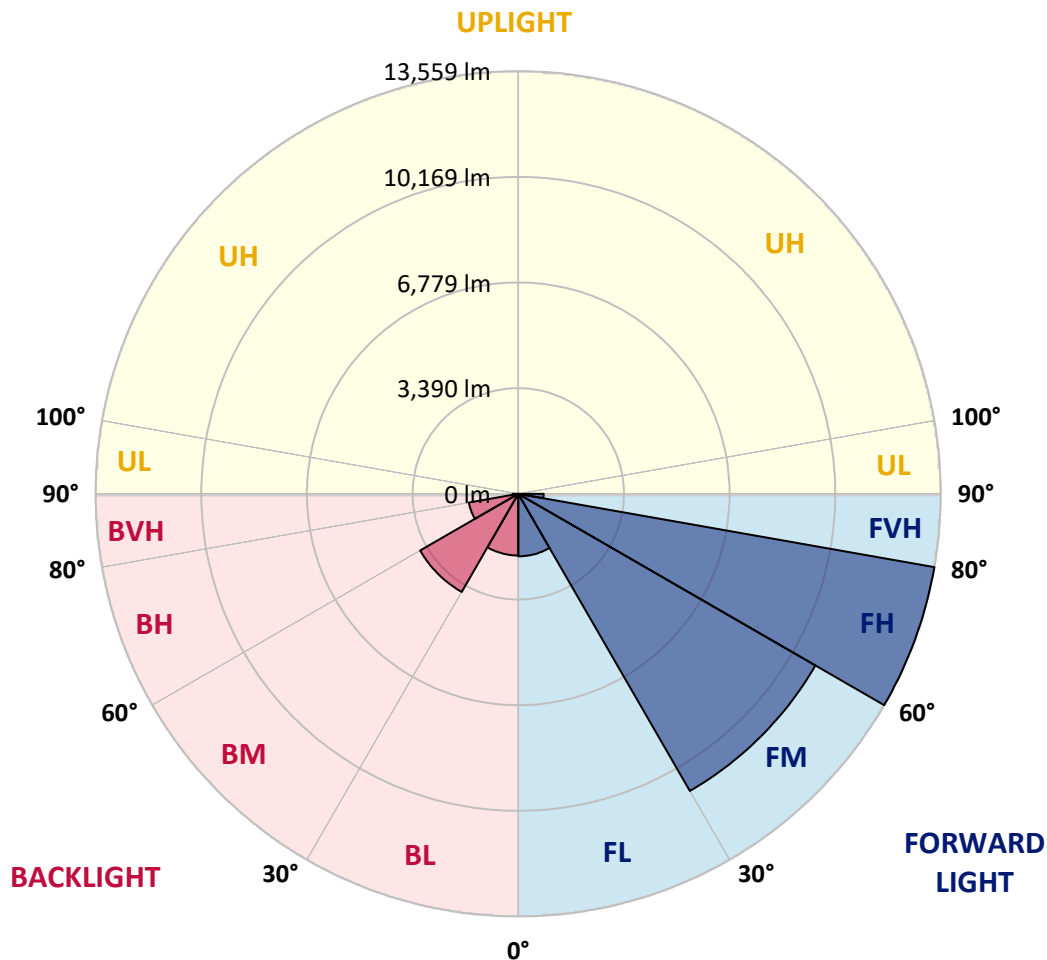
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2005.4	5.8			
FM (30°-60°)	11008.6	31.6			
FH (60°-80°)	13558.8	39.0			G5
FVH (80°-90°)	812.6	2.3			G5
BL (0°-30°)	1980.3	5.7	B3/2500		
BM (30°-60°)	3635.8	10.5	B3/5000		
BH (60°-80°)	1607.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	179.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6
2.5°	4908.7	4933.8	4947.3	4995.5	5007.1	5022.5	5062.9	5116.9	5186.3	5247.9	5301.9
5°	4500.2	4538.7	4561.8	4604.2	4687.1	4694.8	4802.8	4926.1	5066.8	5197.9	5305.8
7.5°	4112.8	4155.2	4174.5	4251.6	4361.4	4378.8	4536.8	4731.5	4966.6	5165.1	5330.8
10°	3821.8	3842.9	3885.4	3943.2	4074.2	4085.8	4292.0	4552.2	4856.7	5149.7	5373.2
12.5°	3663.7	3675.3	3684.9	3746.7	3875.7	3893.1	4109.0	4403.8	4770.0	5161.2	5442.6
15°	3686.9	3690.7	3648.3	3659.9	3764.0	3789.0	4002.9	4305.5	4716.1	5190.1	5546.7
17.5°	3881.6	3868.0	3764.0	3710.0	3783.2	3794.8	3981.7	4267.0	4691.0	5244.1	5654.6
20°	4187.9	4168.7	3989.5	3869.9	3912.3	3922.0	4051.1	4295.9	4716.1	5332.8	5822.3
22.5°	4569.6	4561.8	4290.1	4145.5	4143.6	4211.1	4399.9	4791.2	5454.2	5997.7	
25°	5103.4	5062.9	4708.3	4521.4	4469.3	4465.5	4457.8	4571.5	4887.6	5583.3	6205.8
27.5°	5650.8	5581.4	5265.3	4978.1	4866.4	4852.9	4802.8	4814.3	5010.9	5729.8	6442.9
30°	6142.2	6097.9	5801.0	5483.1	5350.1	5319.2	5180.5	5116.9	5217.1	5993.8	6820.6
32.5°	6518.0	6491.1	6259.8	5970.7	5774.1	5768.3	5566.0	5513.9	5539.0	6313.7	7252.4
35°	6822.5	6832.2	6714.6	6464.1	6238.6	6205.8	6070.9	6005.4	5932.2	6776.3	7795.8
37.5°	7238.8	7260.0	7252.4	7036.5	6760.9	6768.6	6737.8	6629.9	6435.2	7292.8	8399.1
40°	7697.5	7713.0	7711.0	7628.1	7483.6	7491.3	7479.8	7356.4	7065.4	7950.0	9069.8
42.5°	8331.6	8258.4	8067.5	8150.5	8235.2	8271.8	8350.9	8233.3	7834.3	8651.5	9699.9
45°	9040.8	8902.1	8470.4	8508.9	8823.0	8892.4	9328.0	9166.1	8668.9	9457.1	10441.9
47.5°	9488.0	9351.2	8986.8	8979.2	9395.5	9462.9	10233.8	10174.1	9428.2	10326.3	11347.8
50°	9886.9	9867.6	9457.1	9555.4	9962.1	10062.3	11220.5	11164.7	10185.6	11351.6	12334.5
52.5°	10478.6	10322.4	9994.9	10197.2	10734.9	10866.0	12199.6	12035.8	10881.4	12257.5	13292.4
55°	10744.5	10707.9	10688.7	10864.0	11602.2	11696.6	13151.7	12775.9	11474.9	13024.5	14020.9
57.5°	11455.7	11388.2	11579.1	11698.6	12623.7	12768.1	14146.2	13548.8	11995.4	13633.5	14375.5
60°	12376.9	12340.3	12515.7	12731.6	13764.6	13984.3	15279.5	14207.9	12413.6	13940.0	14180.9
62.5°	13753.0	13749.2	13716.4	14178.9	15381.6	15583.9	16580.3	14849.6	12479.1	13710.7	13174.9
65°	15726.5	15657.1	15372.0	15876.9	17393.6	17630.7	17935.2	15208.1	12084.0	12533.1	11093.4
67.5°	17790.7	17786.8	17555.5	18210.8	20282.6	20527.4	19629.3	15129.1	10987.4	10152.9	7878.7
70°	19502.0	19419.2	19714.0	21460.2	23973.4	24256.6	21111.4	14198.2	8751.8	6705.0	4681.3
72.5°	19912.6	19916.4	20529.3	23965.6	27517.6	27561.9	21645.2	11507.7	5857.0	3698.5	2341.6
74°	18648.2	18681.0	19631.2	24090.9	28178.6	27978.2	20280.7	9044.7	3960.5	2414.8	1688.3
75°	17021.7	16815.5	18189.6	23256.4	27492.5	27276.7	18683.0	7258.1	3022.0	1929.2	1478.2
77.5°	9100.5	9310.6	11430.6	17355.1	22335.2	22086.5	12668.0	3480.6	1632.4	1343.3	1063.9
80°	3239.8	3573.2	5022.5	9081.3	14319.6	14396.7	6045.9	1595.8	1148.6	990.6	751.6
82.5°	1322.1	1358.7	2156.6	4029.9	7271.6	7341.0	2468.8	948.2	821.0	682.2	449.1
85°	516.5	531.9	954.0	1811.6	3102.9	3305.3	853.8	501.1	504.9	391.2	229.3
87.5°	173.4	196.5	391.2	603.2	1054.2	1033.0	248.6	148.4	181.2	169.6	71.3
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°	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6
2.5°	5328.9	5365.5	5390.6	5417.6	5442.6	5450.4	5444.5	5461.9	5463.8	5465.7	5467.7
5°	5359.8	5409.8	5458.0	5485.0	5496.6	5486.9	5454.2	5436.8	5421.4	5409.8	5413.7
7.5°	5402.2	5473.5	5517.8	5529.3	5498.5	5454.2	5373.2	5309.7	5269.2	5242.2	5240.3
10°	5467.7	5537.1	5573.6	5540.9	5456.1	5348.2	5221.0	5101.5	5010.9	4983.9	4982.0
12.5°	5550.5	5629.6	5627.6	5531.3	5382.9	5190.1	4983.9	4845.2	4721.8	4660.1	4685.2
15°	5658.5	5718.2	5662.3	5488.9	5253.7	4989.7	4735.3	4546.4	4407.7	4342.2	4346.0
17.5°	5783.7	5835.8	5687.3	5413.7	5072.6	4733.4	4438.5	4259.2	4149.4	4101.2	4097.4
20°	5939.8	5955.3	5687.3	5282.7	4839.4	4434.7	4153.3	4028.0	3966.3	3941.3	3949.0
22.5°	6107.5	6076.7	5656.6	5097.6	4532.9	4122.4	3933.5	3877.7	3846.8	3842.9	3846.8
25°	6296.4	6209.7	5593.0	4847.1	4213.0	3852.6	3742.8	3752.4	3758.2	3758.2	3771.6
27.5°	6527.7	6354.2	5486.9	4531.1	3839.2	3602.1	3571.2	3638.7	3669.5	3675.3	3684.9
30°	6832.2	6512.3	5311.6	4136.0	3521.1	3376.6	3430.5	3521.1	3555.8	3577.0	3573.2
32.5°	7194.5	6685.7	5074.5	3740.9	3264.8	3218.5	3284.1	3376.6	3415.1	3426.7	3411.3
35°	7620.5	6882.3	4762.3	3370.8	3041.2	3068.2	3145.3	3174.2	3208.9	3208.9	3216.7
37.5°	8079.2	7040.3	4380.7	3031.6	2867.8	2966.0	3022.0	2995.0	2979.6	2960.3	2969.9
40°	8545.5	7157.9	3885.4	2696.2	2694.3	2860.1	2875.5	2798.4	2736.7	2717.4	2707.9
42.5°	8952.2	7231.1	3438.3	2436.0	2530.5	2756.0	2767.6	2644.2	2546.0	2488.1	2468.8
45°	9432.1	7315.9	3000.8	2220.2	2378.3	2673.1	2702.0	2536.3	2391.7	2270.4	2239.5
47.5°	10089.3	7508.6	2655.8	2052.5	2268.4	2621.1	2661.6	2447.6	2256.8	2098.8	2073.7
50°	10831.2	7772.7	2387.9	1938.8	2183.6	2574.8	2624.9	2357.1	2131.6	1956.2	1936.9
52.5°	11511.6	7915.3	2156.6	1836.7	2100.7	2490.0	2576.7	2291.6	2008.2	1813.5	1796.2
55°	11883.6	7684.0	1929.2	1736.5	1987.0	2380.2	2509.3	2201.0	1888.7	1738.4	1713.4
57.5°	11933.7	7206.1	1723.0	1628.5	1867.5	2245.3	2384.1	2091.1	1811.6	1686.4	1665.2
60°	11546.3	6492.9	1563.0	1539.9	1746.1	2093.0	2243.4	1994.8	1732.6	1628.5	1607.3
62.5°	10582.6	5718.2	1451.2	1459.0	1622.8	1933.0	2139.3	1902.3	1657.4	1564.9	1545.7
65°	8925.2	4719.9	1343.3	1376.0	1512.9	1807.8	2044.8	1825.1	1582.3	1516.7	1499.4
67.5°	6200.0	3407.4	1254.7	1289.3	1408.8	1680.6	1935.0	1742.2	1497.5	1462.8	1435.8
70°	3432.5	2096.9	1150.6	1191.0	1300.9	1537.9	1811.6	1617.0	1374.1	1358.7	1320.2
72.5°	1803.9	1335.6	1033.0	1077.3	1154.4	1354.9	1622.8	1480.2	1252.8	1187.2	1137.1
74°	1408.8	1094.7	954.0	1000.3	1052.3	1247.0	1510.9	1381.8	1166.0	1088.9	1050.3
75°	1227.7	975.2	886.6	946.3	992.5	1173.7	1424.2	1312.5	1117.9	1044.6	1009.9
77.5°	867.2	730.4	724.7	795.9	821.0	1029.1	1283.5	1194.9	996.4	919.3	886.6
80°	609.1	547.3	574.3	618.6	653.4	909.7	1191.0	1033.0	817.2	726.5	715.0
82.5°	397.0	358.4	410.5	450.9	462.6	670.7	961.7	784.4	595.5	483.7	449.1
85°	183.1	179.2	235.1	229.3	227.4	327.7	570.5	458.7	343.0	256.3	240.9
87.5°	46.3	44.3	57.8	48.2	57.8	50.1	52.1	13.5	1.9	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)