

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: P652027

Luminaire Tested: **GALN-SA7A-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22839 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

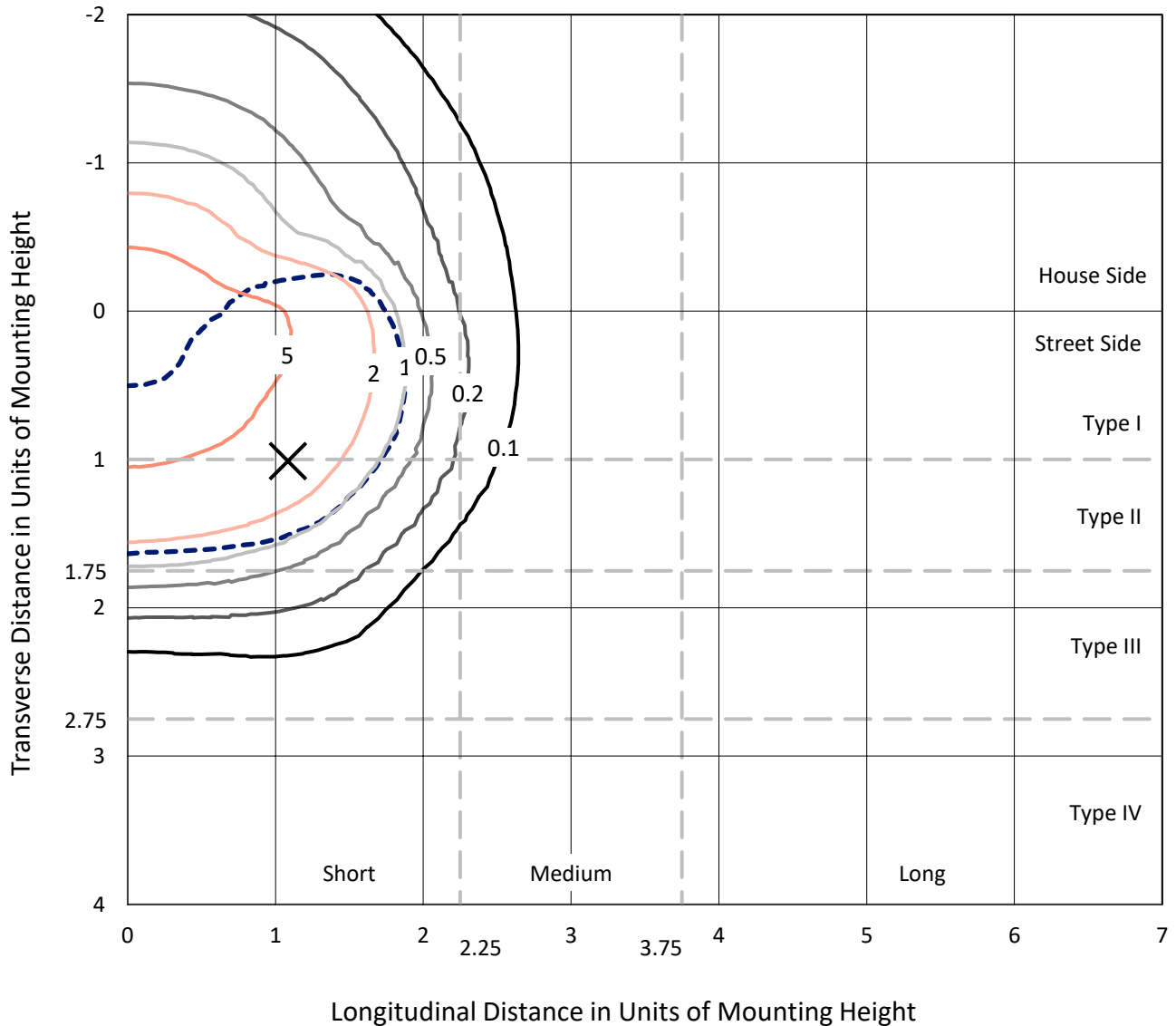
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

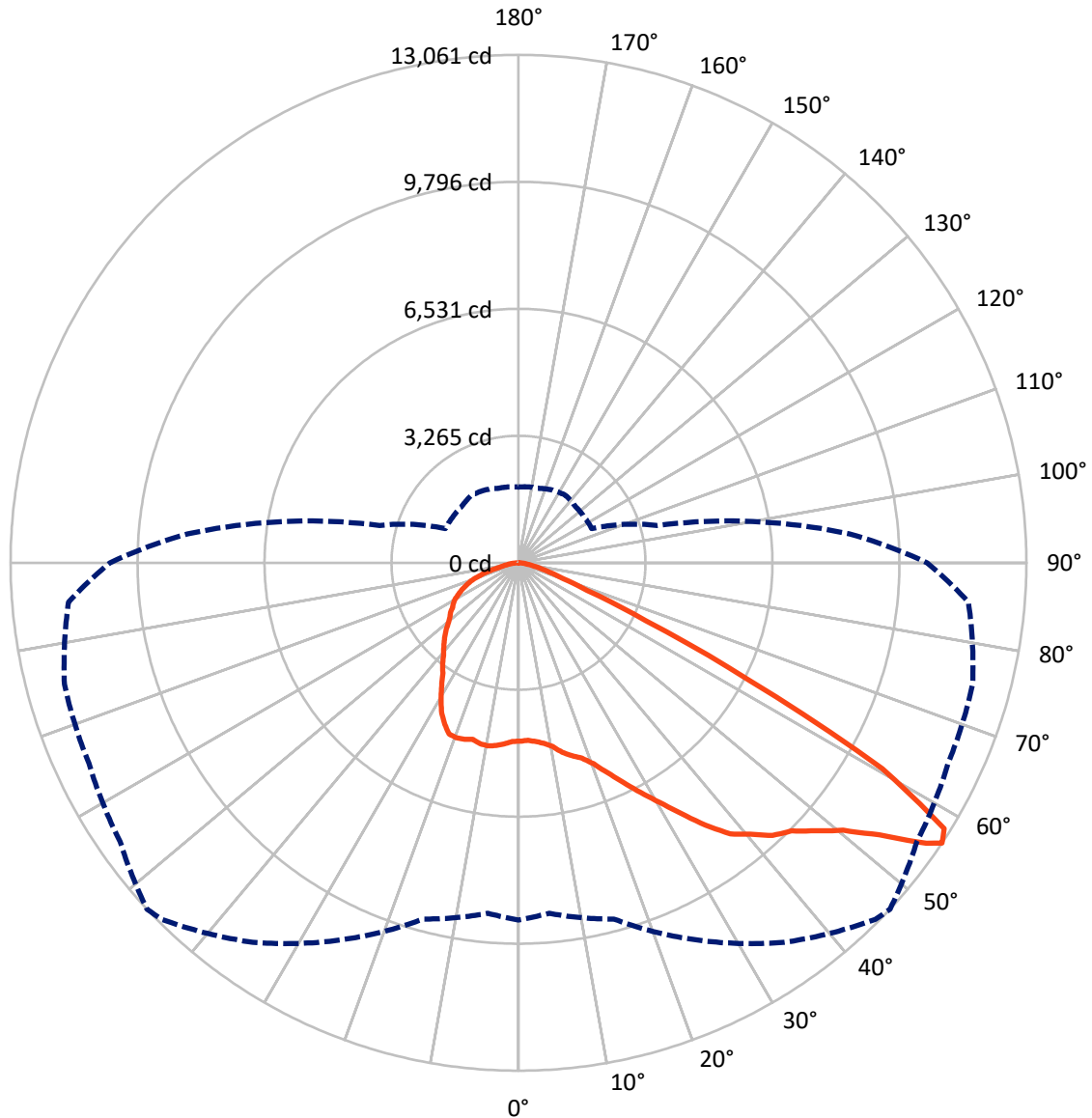
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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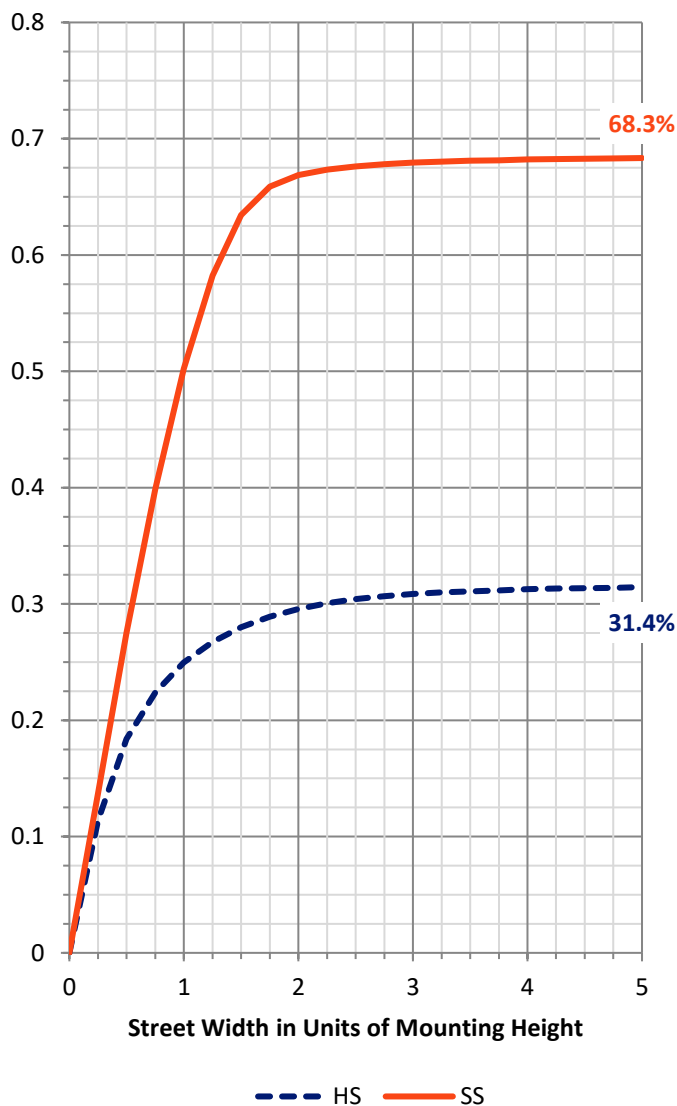
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7237.4	0.0	7237.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	15601.6	0.0	15601.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	22839.0	0.0	22839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.0	2.0
10°-20°	1410.1	6.2
20°-30°	2492.7	10.9
30°-40°	3743.9	16.4
40°-50°	5138.2	22.5
50°-60°	6121.5	26.8
60°-70°	2619.6	11.5
70°-80°	741.3	3.2
80°-90°	124.7	0.5
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°	22839.0	100.0
0°-180°	22839.0	100.0

Coefficient of Utilization



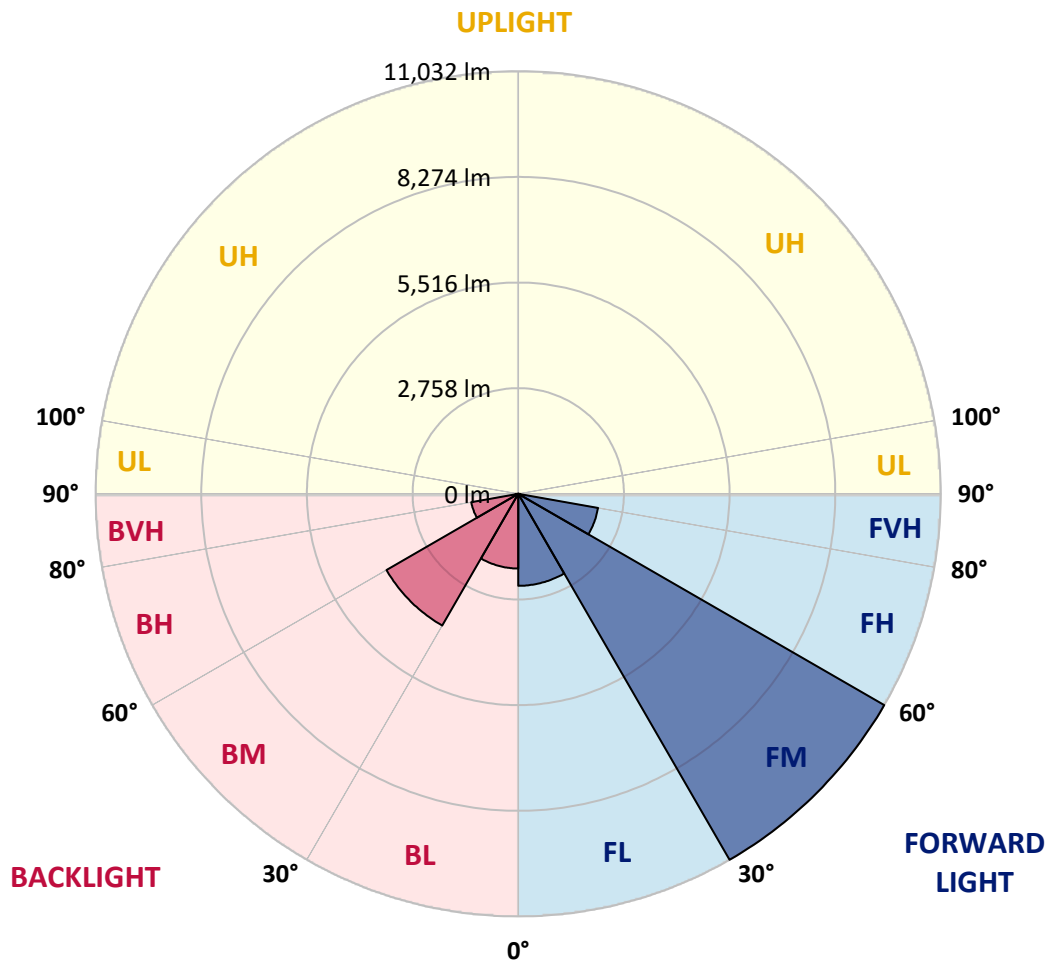
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2401.2	10.5			
FM (30°-60°)	11031.8	48.3			
FH (60°-80°)	2115.7	9.3			G2/5000
FVH (80°-90°)	53.0	0.2			G1/100
BL (0°-30°)	1948.6	8.5	B3/2500		
BM (30°-60°)	3971.8	17.4	B3/5000		
BH (60°-80°)	1245.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	71.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7
2.5°	4570.2	4561.4	4555.6	4602.2	4584.8	4587.7	4570.2	4587.7	4599.3	4573.1	4611.0
5°	4561.4	4587.7	4564.4	4578.9	4616.8	4605.1	4616.8	4651.7	4643.0	4634.2	4622.6
7.5°	4643.0	4645.9	4663.4	4669.2	4680.8	4669.2	4686.7	4718.8	4710.0	4660.5	4666.3
10°	4759.6	4765.4	4768.3	4800.3	4820.7	4823.6	4803.2	4774.1	4771.2	4838.2	4791.6
12.5°	4893.5	4879.0	4913.9	4925.6	4948.9	4975.1	5001.3	4940.1	4978.0	4980.9	4925.6
15°	5088.6	5103.3	5062.5	5062.5	5071.2	5074.1	5146.9	5117.8	5111.9	5079.9	5103.3
17.5°	5380.0	5280.9	5278.0	5237.2	5231.4	5254.7	5280.9	5304.2	5382.9	5318.8	5193.5
20°	5592.6	5615.9	5531.4	5481.9	5490.6	5543.0	5516.9	5621.7	5677.1	5572.2	5449.8
22.5°	5968.3	5889.7	5910.0	5799.4	5808.1	5863.5	5860.6	5968.3	6000.4	5834.4	5656.7
25°	6221.7	6201.4	6218.9	6131.5	6143.1	6186.8	6256.7	6434.4	6381.9	6198.4	5787.8
27.5°	6591.7	6550.9	6536.3	6504.3	6492.6	6609.2	6690.7	6880.1	6842.2	6574.2	6020.8
30°	6970.4	6944.1	6958.7	6827.6	6874.2	7121.8	7145.1	7404.3	7386.8	6915.0	6280.0
32.5°	7232.5	7247.1	7273.3	7200.5	7407.3	7605.3	7684.0	7978.1	7992.8	7500.5	6781.0
35°	7654.9	7605.3	7619.9	7704.4	7800.5	8161.7	8289.8	8485.0	8607.3	8115.1	7261.6
37.5°	7919.9	7972.3	7911.2	8045.2	8295.7	8729.7	8846.2	9047.1	9175.3	8720.9	7917.0
40°	8333.6	8249.0	8292.8	8388.9	8645.2	9210.3	9178.3	9385.1	9425.8	9236.5	8528.7
42.5°	8779.2	8738.4	8677.3	8895.7	9111.2	9522.0	9586.1	9489.9	9696.7	9740.5	9402.5
45°	9312.2	9361.8	9370.5	9376.3	9565.6	9924.0	9836.5	9752.1	9990.9	10308.4	9944.3
47.5°	9807.4	9650.1	9763.8	9921.0	10189.0	10191.9	10293.8	10092.8	10346.3	10628.8	10433.7
50°	9973.4	9897.7	10049.2	10346.3	10759.9	10803.6	10815.3	10529.8	10660.9	10885.1	10602.6
52.5°	9909.3	9883.2	10270.5	10730.7	11336.7	11558.0	11616.2	11263.8	11336.7	11234.7	10975.5
55°	9603.5	9682.2	10072.5	11010.4	11939.6	12624.1	12734.8	12289.1	11826.0	11904.6	11619.2
56°	9184.1	9047.1	9484.1	10692.9	11913.4	12970.7	13061.0	12504.7	12190.1	12088.1	11613.4
57.5°	7791.8	7614.1	8187.9	9621.0	11252.2	12839.6	12906.7	12595.0	12128.9	11922.1	10765.7
60°	4561.4	4648.8	5377.0	6635.4	8680.1	10526.9	10751.2	10978.3	10666.7	9740.5	8013.1
62.5°	2202.1	2146.7	2668.2	3804.1	5289.6	6719.8	6652.8	7290.7	7640.3	6920.8	5059.5
65°	1153.4	1147.6	1456.4	2076.8	2907.0	3530.3	3591.5	3935.2	4415.8	3565.3	2569.1
67.5°	847.6	870.9	1025.3	1459.3	1870.0	1907.9	1899.1	2071.0	2117.6	1791.4	1578.7
70°	664.1	675.7	789.4	1109.8	1392.4	1246.7	1220.5	1240.9	1377.7	1436.0	1366.1
72.5°	480.6	492.2	588.4	748.6	870.9	850.5	868.0	981.6	1150.6	1211.7	1138.9
75°	320.4	329.2	381.6	457.3	515.5	556.3	588.4	719.5	876.7	911.7	876.7
77.5°	221.4	230.1	265.1	323.3	329.2	355.3	367.0	428.2	524.3	568.0	544.7
80°	125.2	125.2	142.7	166.0	203.9	238.8	244.6	294.2	337.9	367.0	372.8
82.5°	58.3	61.1	75.8	101.9	134.0	166.0	171.8	203.9	235.9	265.1	273.8
85°	29.1	32.0	43.7	61.1	81.6	99.1	96.1	99.1	104.9	99.1	101.9
87.5°	8.7	8.7	11.7	14.5	11.7	14.5	14.5	17.5	20.4	23.3	26.2
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°	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7	4587.7
2.5°	4613.9	4622.6	4564.4	4619.7	4599.3	4596.4	4637.2	4631.4	4645.9	4640.1	4605.1
5°	4616.8	4596.4	4657.5	4602.2	4628.4	4683.8	4645.9	4733.3	4689.6	4718.8	4654.7
7.5°	4707.1	4712.9	4701.3	4724.6	4712.9	4739.1	4718.8	4739.1	4704.2	4707.1	4765.4
10°	4785.7	4768.3	4788.7	4759.6	4779.9	4771.2	4724.6	4710.0	4721.6	4707.1	4744.9
12.5°	4931.4	4899.3	4884.8	4849.8	4826.5	4739.1	4666.3	4625.5	4680.8	4689.6	4672.2
15°	5079.9	5082.8	5015.9	4937.2	4791.6	4660.5	4678.0	4692.5	4692.5	4715.8	4672.2
17.5°	5173.2	5173.2	5111.9	4954.7	4806.1	4730.4	4712.9	4666.3	4625.5	4619.7	4616.8
20°	5336.2	5286.8	5146.9	4951.8	4800.3	4765.4	4634.2	4523.6	4439.1	4410.0	4407.1
22.5°	5522.7	5397.5	5202.3	4957.6	4791.6	4742.1	4497.3	4331.3	4179.9	4115.8	4124.5
25°	5694.5	5493.6	5234.3	4931.4	4759.6	4520.7	4246.9	4016.8	3859.4	3807.0	3780.8
27.5°	5814.0	5595.5	5234.3	4954.7	4640.1	4273.1	3993.5	3699.2	3562.4	3527.4	3533.2
30°	5974.1	5723.7	5324.6	4905.1	4401.3	3952.7	3617.7	3425.5	3343.9	3314.8	3335.2
32.5°	6349.9	6058.6	5449.8	4785.7	4118.7	3632.3	3361.4	3253.6	3134.2	3076.0	3055.5
35°	6757.7	6376.1	5572.2	4584.8	3801.2	3341.0	3172.1	3073.0	2930.3	2866.2	2877.8
37.5°	7334.4	6783.9	5581.0	4252.7	3457.5	3177.9	3023.5	2869.1	2752.6	2653.6	2624.4
40°	8112.2	7340.2	5560.5	3903.2	3180.7	2985.6	2872.0	2679.8	2548.7	2478.8	2493.4
42.5°	8796.7	7992.8	5476.1	3507.1	2930.3	2854.5	2726.4	2537.0	2408.9	2336.0	2330.2
45°	9373.4	8473.3	5315.9	3169.1	2720.6	2708.9	2560.3	2414.7	2312.8	2245.8	2274.9
47.5°	9906.5	8860.8	5074.1	2831.2	2528.3	2551.6	2408.9	2318.6	2254.6	2193.3	2190.5
50°	10098.7	8854.9	4861.5	2551.6	2374.0	2362.3	2356.5	2260.4	2193.3	2140.9	2164.2
52.5°	10419.1	8954.0	4631.4	2359.3	2234.1	2237.1	2257.4	2187.5	2111.8	2079.7	2108.9
55°	10879.3	8968.5	4124.5	2135.0	2117.6	2138.0	2138.0	2091.4	2027.3	2001.1	1986.5
56°	10503.6	8534.6	3699.2	2076.8	2059.4	2059.4	2114.7	2062.3	1983.6	1963.2	1945.7
57.5°	9688.0	7477.2	3096.3	2007.0	1980.7	2021.5	2050.6	1995.3	1922.4	1893.3	1910.8
60°	6682.0	5059.5	2327.3	1855.5	1855.5	1922.4	1945.7	1864.2	1832.1	1829.3	1806.0
62.5°	3900.2	2947.8	1820.5	1718.6	1724.4	1779.7	1797.2	1750.6	1709.8	1759.4	1782.7
65°	2068.1	1759.4	1561.2	1572.9	1575.9	1619.5	1695.3	1692.3	1689.4	1704.0	1706.9
67.5°	1497.1	1462.2	1418.5	1406.9	1412.7	1444.8	1520.4	1578.7	1575.9	1540.9	1514.6
70°	1334.1	1284.5	1258.3	1261.2	1238.0	1275.8	1336.9	1374.9	1307.8	1267.1	1249.6
72.5°	1109.8	1095.2	1077.7	1080.7	1034.0	1025.3	955.4	955.4	937.9	926.3	946.6
75°	847.6	841.8	850.5	836.0	786.4	734.0	693.2	655.4	597.1	573.8	562.2
77.5°	536.0	553.5	573.8	541.8	521.4	483.5	442.8	404.9	358.3	332.0	332.0
80°	364.1	378.7	393.3	387.4	364.1	329.2	297.1	256.3	224.3	203.9	201.0
82.5°	276.7	288.4	308.7	285.4	262.1	233.0	206.8	177.7	148.5	125.2	125.2
85°	99.1	113.6	125.2	136.9	145.7	148.5	128.2	104.9	84.4	67.0	64.1
87.5°	26.2	29.1	32.0	29.1	29.1	29.1	32.0	29.1	26.2	20.4	20.4
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)