

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: P651584

Luminaire Tested: **GALN-SA8D-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53540.6 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

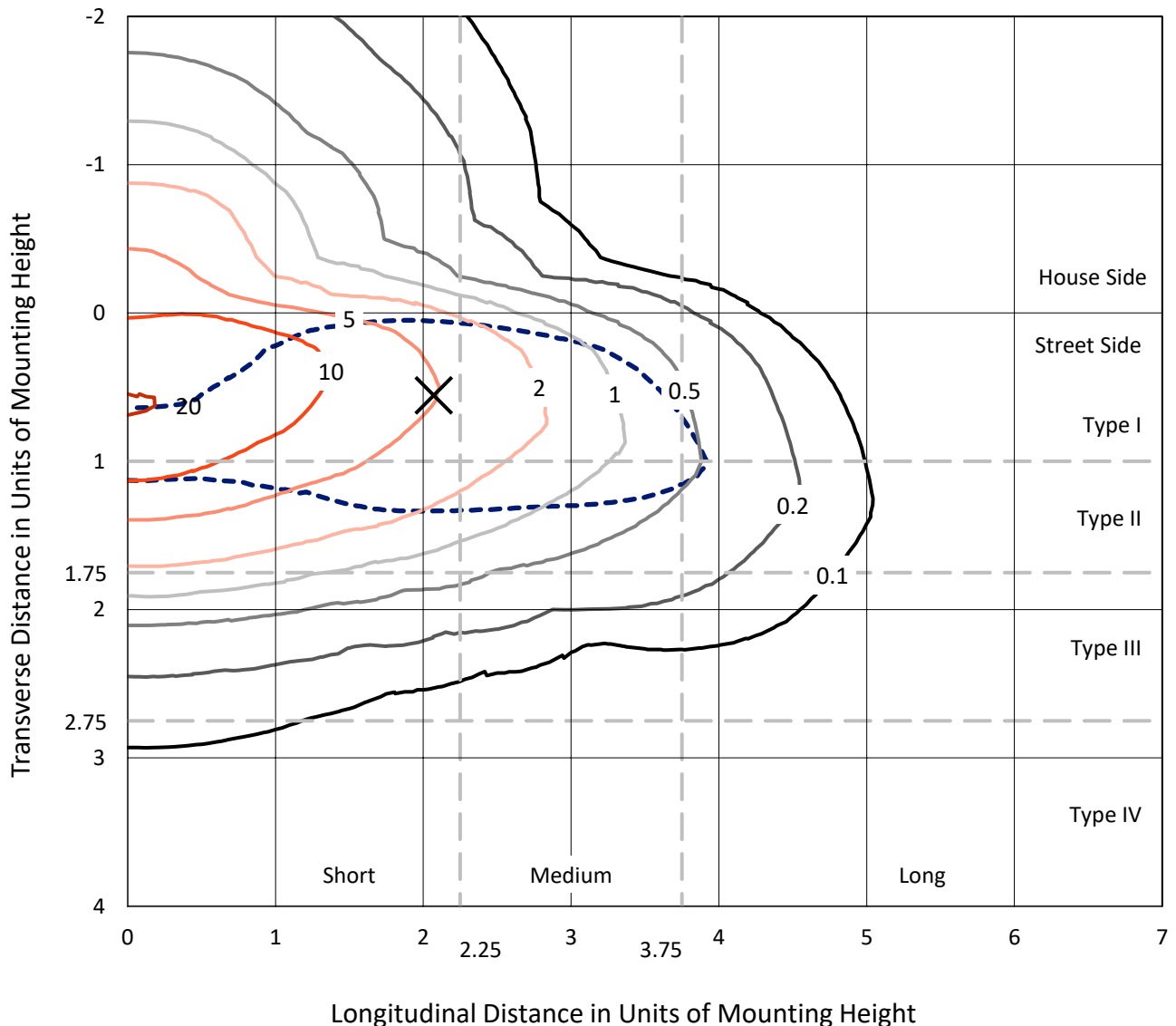
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

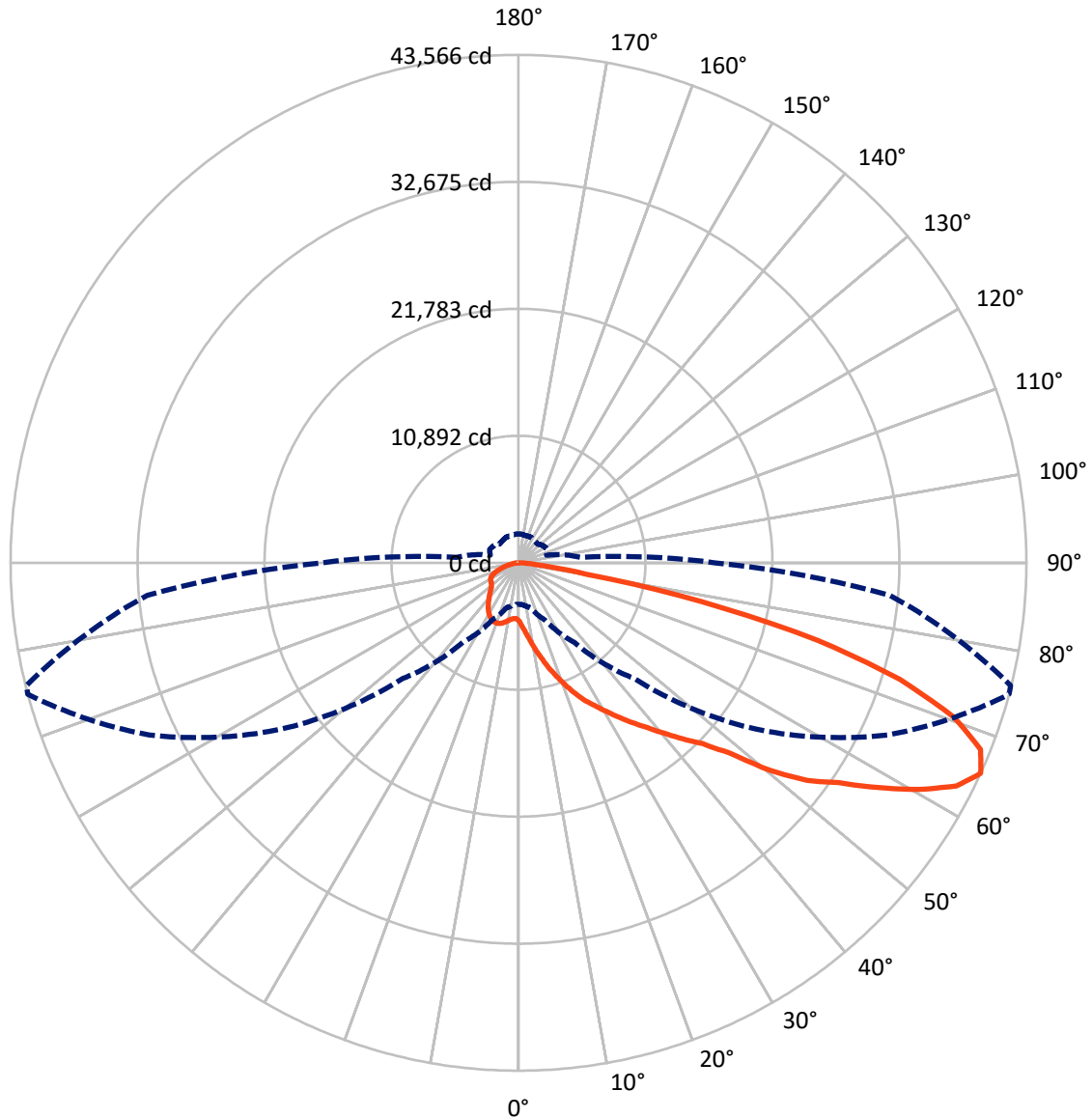
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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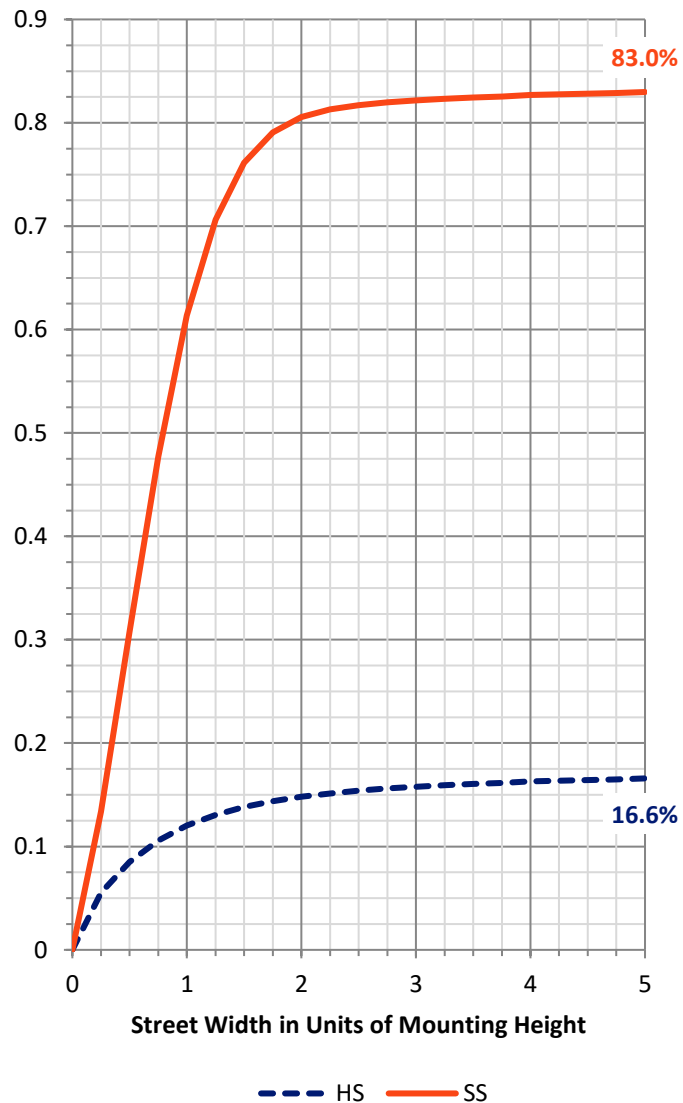
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9000.9	0.0	9000.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	44539.7	0.0	44539.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	53540.6	0.0	53540.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.4	1.1
10°-20°	2367.3	4.4
20°-30°	4572.9	8.5
30°-40°	7427.8	13.9
40°-50°	10217.6	19.1
50°-60°	12063.5	22.5
60°-70°	10569.6	19.7
70°-80°	5046.0	9.4
80°-90°	671.4	1.3
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°	53540.6	100.0
0°-180°	53540.6	100.0

Coefficient of Utilization

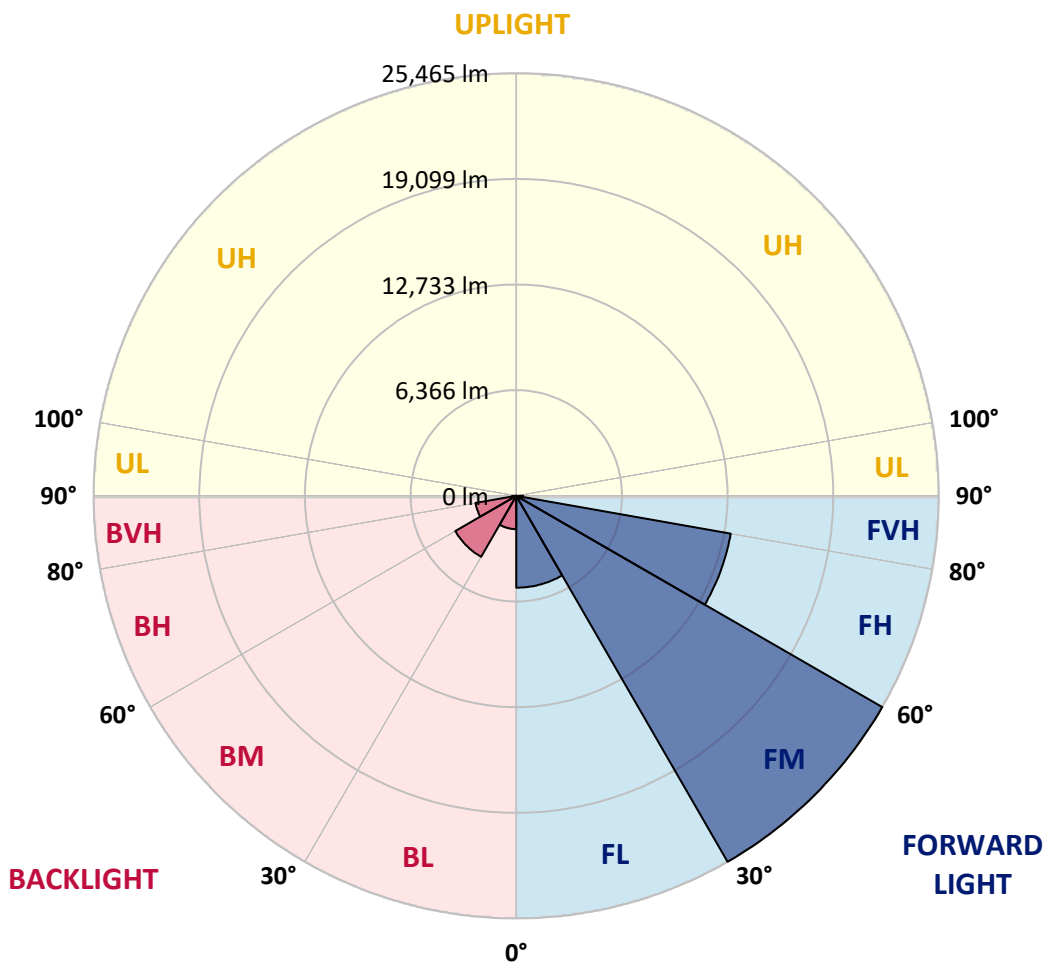


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5535.2	10.3			
FM (30°-60°)	25465.0	47.6			
FH (60°-80°)	13119.8	24.5			G5
FVH (80°-90°)	419.6	0.8			G3/500
BL (0°-30°)	2009.4	3.8	B3/2500		
BM (30°-60°)	4243.9	7.9	B3/5000		
BH (60°-80°)	2495.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	251.8	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6
2.5°	6609.6	6566.0	6519.5	6391.8	6255.3	6101.4	5880.7	5668.7	5386.9	5378.3	5169.2
5°	8442.0	8412.9	8206.8	8087.7	7771.2	7350.1	6992.9	6438.2	5924.2	5863.2	5456.7
7.5°	10126.3	10013.1	9934.6	9719.8	9406.2	8866.0	8174.9	7425.6	6566.0	6484.7	5811.0
10°	11395.4	11383.8	11343.2	11157.3	10922.1	10384.8	9618.1	8543.6	7379.1	7219.4	6240.7
12.5°	12345.0	12353.7	12347.9	12345.0	12176.6	11720.7	10890.1	9757.5	8200.9	8087.7	6737.3
15°	12969.4	13056.5	13091.3	13236.6	13251.0	12946.2	12231.8	10930.7	9127.4	8958.9	7271.7
17.5°	13381.7	13425.3	13588.0	13834.8	14035.2	13979.9	13344.0	12016.9	10074.1	9792.4	7826.3
20°	13776.7	13852.2	13977.1	14313.9	14668.2	14830.9	14383.6	13129.1	11012.1	10832.0	8439.1
22.5°	14598.5	14706.0	14749.5	14920.9	15222.9	15510.4	15307.1	14194.9	12040.1	11796.1	9089.6
25°	15989.6	16102.8	15980.9	15940.2	16039.0	16181.3	16137.7	15199.6	13010.0	12661.6	9705.2
27.5°	17801.7	17816.2	17578.1	17351.6	17107.6	17035.0	16901.4	16091.2	13852.2	13561.8	10323.8
30°	19747.4	19677.7	19282.7	18873.3	18460.9	18054.3	17671.0	16950.8	14790.2	14456.2	10930.7
32.5°	21553.7	21515.9	21077.4	20441.4	19744.5	19361.2	18585.8	17819.1	15795.0	15472.6	11555.1
35°	22907.0	22962.2	22480.1	21786.0	21025.2	20685.4	19706.7	18731.0	16834.6	16483.3	12234.7
37.5°	23868.2	23839.2	23412.3	22811.1	22143.2	21847.0	21016.4	19727.1	17952.7	17615.8	12978.1
40°	24210.9	24193.5	23876.9	23438.4	23014.4	22909.8	22387.2	20801.5	19233.3	18838.4	13872.5
42.5°	23993.1	24030.8	23821.7	23702.7	23624.3	23699.7	23749.1	22210.0	20630.2	20267.2	14842.5
45°	23325.1	23304.8	23275.8	23470.4	23911.7	24408.3	25096.6	23540.0	22149.0	21858.6	16143.5
47.5°	22131.6	22276.7	22349.4	22886.6	23850.8	25026.9	26647.3	25323.1	24353.2	24100.5	18126.9
50°	20461.8	20577.9	21007.8	21963.1	23400.7	25259.2	28163.2	28238.8	28029.7	27556.3	20281.7
52.5°	17853.9	18034.0	18919.7	20670.9	22477.2	25163.4	29080.9	30739.1	31015.0	30660.7	22404.6
55°	14935.4	15188.0	16123.1	18420.3	21205.2	24640.6	29714.0	32188.2	33288.9	32960.7	24449.0
57.5°	12077.9	12345.0	13306.2	15530.7	18986.5	23484.8	30129.2	33802.9	36384.5	35957.6	26992.9
60°	9051.9	9330.6	10155.4	12446.6	15826.9	21225.5	29847.6	35202.6	39477.3	39294.4	29539.8
62.5°	5840.0	6147.8	6865.1	8761.5	12165.0	18138.5	28340.4	35975.0	42154.9	41934.1	31398.3
65°	3557.4	3592.2	3987.3	5439.3	8325.8	14043.9	24893.3	34949.9	43566.2	43499.4	31964.6
67.5°	2300.0	2355.1	2535.2	3258.3	4992.0	9754.6	19904.2	31566.8	42741.5	42718.3	30794.3
70°	1942.8	1960.2	2041.5	2198.4	2901.1	5915.5	13977.1	26174.0	39608.0	39608.0	27980.3
72.5°	1736.6	1759.9	1788.9	1838.3	2070.5	3351.2	8340.4	20374.7	34197.8	34424.3	23815.9
75°	1576.9	1571.1	1588.5	1597.2	1765.7	2189.6	4312.5	15069.0	26455.7	26002.6	17247.0
77.5°	1350.4	1359.1	1350.4	1388.2	1559.5	1666.9	2189.6	10111.8	16033.2	15446.5	8656.9
80°	1109.4	1123.8	1138.4	1161.6	1333.0	1266.1	1315.5	4608.7	5930.1	5805.2	2674.6
82.5°	833.4	853.8	877.0	932.2	1048.4	836.4	830.6	1968.9	2140.3	1960.2	984.5
85°	336.9	397.9	601.1	656.3	659.2	458.8	511.1	821.8	874.1	853.8	386.3
87.5°	78.4	92.9	194.6	293.3	270.0	171.3	188.7	267.2	304.9	281.7	130.7
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°	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6	4974.6
2.5°	5073.3	4971.7	4797.5	4663.8	4568.1	4483.8	4431.6	4399.6	4388.0	4385.1	4388.0
5°	5244.6	5064.6	4788.7	4614.5	4518.7	4463.5	4431.6	4428.6	4431.6	4434.4	4425.8
7.5°	5479.9	5221.4	4861.3	4698.8	4626.1	4585.5	4570.9	4565.1	4568.1	4565.1	4565.1
10°	5793.6	5439.3	5003.6	4835.2	4774.2	4727.8	4704.6	4690.0	4678.4	4666.8	4661.0
12.5°	6139.1	5680.3	5157.5	4995.0	4907.8	4835.2	4782.9	4745.2	4719.0	4692.9	4687.1
15°	6525.3	5935.9	5328.9	5102.3	4977.5	4870.1	4780.0	4719.0	4672.6	4634.8	4631.9
17.5°	6894.2	6176.9	5445.1	5151.7	4968.8	4817.8	4698.8	4614.5	4556.5	4507.1	4501.2
20°	7289.1	6406.3	5497.3	5119.8	4881.7	4698.8	4541.9	4440.2	4373.5	4318.3	4309.5
22.5°	7687.0	6600.8	5491.5	5018.2	4730.6	4515.7	4350.2	4242.8	4164.4	4109.2	4088.9
25°	8067.4	6757.7	5418.9	4855.5	4521.6	4297.9	4129.6	4030.8	3961.1	3894.3	3894.3
27.5°	8410.1	6850.6	5282.4	4658.0	4306.7	4071.4	3937.9	3847.8	3783.9	3740.3	3714.3
30°	8746.9	6894.2	5096.5	4408.3	4080.2	3879.8	3772.3	3720.1	3662.0	3612.6	3606.8
32.5°	9048.9	6885.4	4864.3	4164.4	3865.2	3722.9	3679.4	3638.8	3577.8	3508.1	3490.7
35°	9342.2	6827.4	4588.3	3897.2	3685.2	3630.0	3641.6	3583.6	3473.2	3386.1	3371.6
37.5°	9661.7	6722.8	4286.3	3679.4	3534.2	3586.4	3615.5	3487.7	3307.7	3171.2	3139.3
40°	10030.5	6603.8	3972.7	3461.6	3415.1	3545.8	3545.8	3310.6	3063.8	2979.5	2956.3
42.5°	10463.2	6505.1	3711.3	3278.6	3316.4	3447.1	3432.5	3075.4	2973.7	2930.1	2918.5
45°	11148.5	6470.1	3441.3	3118.9	3235.1	3330.9	3211.9	2994.0	2935.9	2901.1	2889.5
47.5°	12231.8	6510.9	3203.1	2999.8	3142.1	3214.7	2965.0	2938.9	2898.3	2848.9	2843.0
50°	13236.6	6473.1	3034.7	2933.1	3060.8	3075.4	2863.4	2872.1	2848.9	2793.6	2782.0
52.5°	14058.4	6354.0	2927.3	2898.3	2991.2	2831.4	2767.6	2799.5	2790.8	2721.1	2709.4
55°	14961.6	6281.4	2875.0	2898.3	2944.7	2619.5	2677.5	2724.0	2712.4	2663.0	2660.1
57.5°	16056.4	6295.9	2837.2	2906.9	2898.3	2512.0	2587.5	2642.7	2639.7	2625.3	2625.3
60°	17177.3	6301.7	2779.2	2904.1	2843.0	2427.8	2494.6	2573.0	2578.8	2587.5	2587.5
62.5°	17549.1	6049.1	2665.9	2851.7	2721.1	2346.5	2407.4	2514.9	2509.0	2532.3	2535.2
65°	16855.0	5349.2	2497.4	2732.7	2564.3	2288.4	2340.7	2439.4	2407.4	2468.4	2480.0
67.5°	15341.9	4425.8	2236.1	2517.8	2390.0	2227.4	2297.1	2334.9	2276.8	2395.8	2398.7
70°	13259.8	3455.8	1905.0	2212.8	2192.6	2163.5	2262.2	2204.2	2122.9	2268.0	2239.0
72.5°	11087.6	2639.7	1521.7	1809.2	1928.2	2067.7	2201.2	2035.7	1922.4	1966.0	1913.8
75°	8328.8	1951.5	1222.6	1417.2	1605.9	1931.2	2146.1	1832.5	1658.2	1617.6	1605.9
77.5°	4245.7	1274.9	914.8	1060.0	1205.2	1745.3	2070.5	1594.3	1373.6	1309.7	1280.7
80°	1515.9	792.8	644.7	731.8	813.2	1501.4	1809.2	1318.4	1065.8	1054.2	1065.8
82.5°	702.7	511.1	432.7	479.2	482.1	1001.9	1379.4	984.5	810.2	1231.3	1039.6
85°	302.0	255.6	244.0	238.2	220.7	447.2	775.4	528.6	824.8	368.8	339.8
87.5°	90.0	101.7	90.0	66.8	49.4	49.4	78.4	29.0	20.4	14.5	14.5
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)