

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: P651916

Luminaire Tested: **GALN-SA5A-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11501.5 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

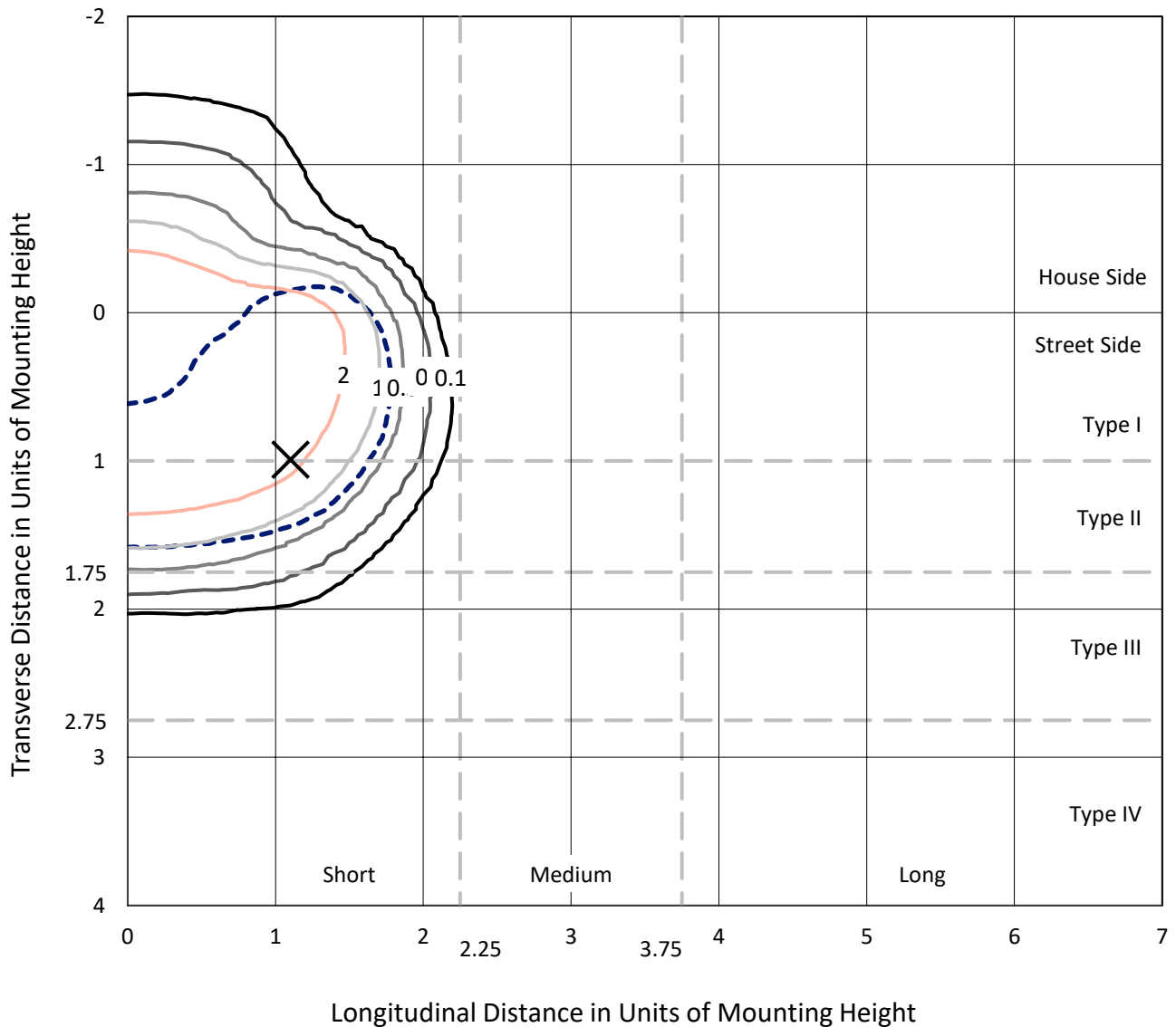
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

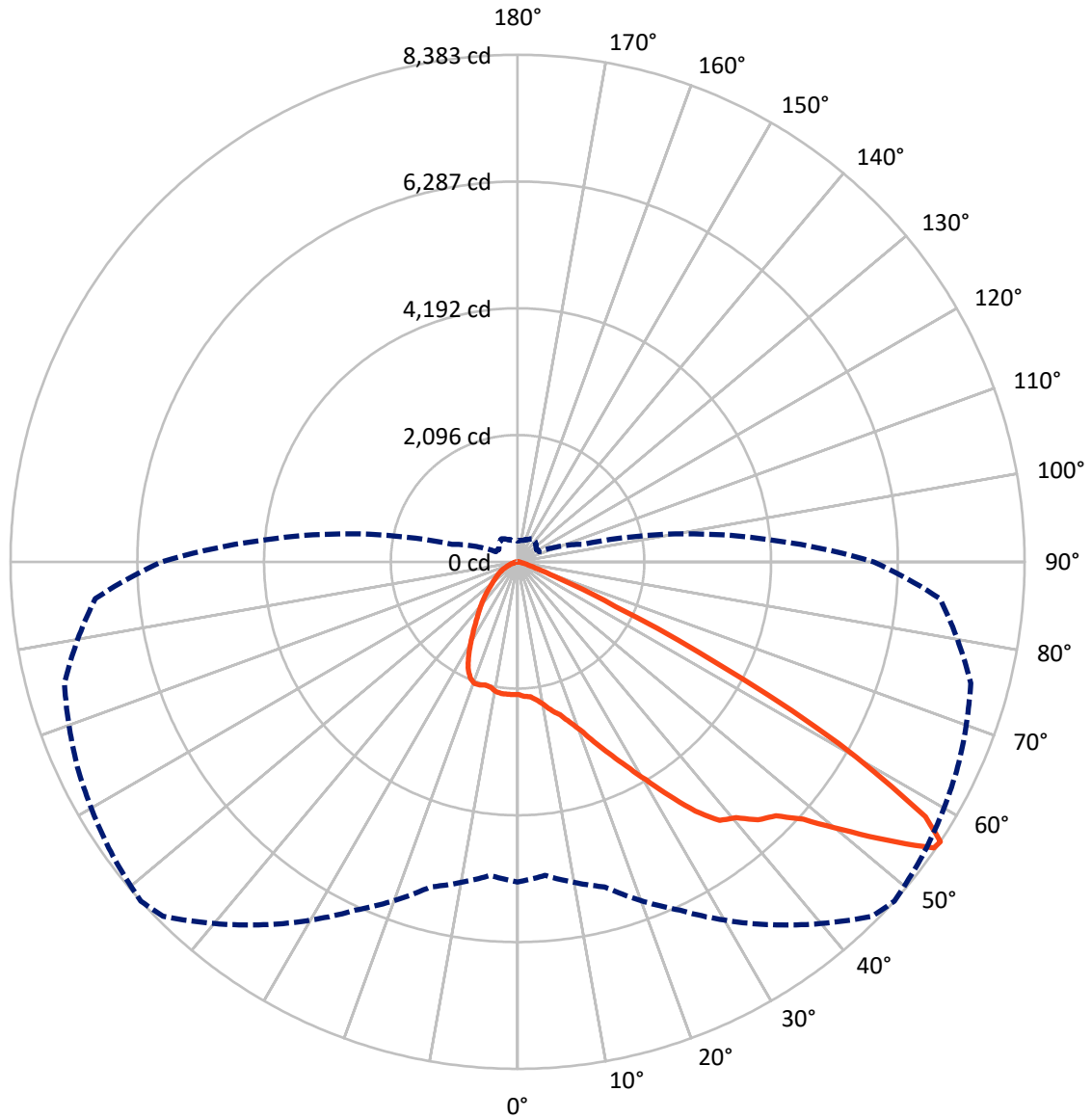
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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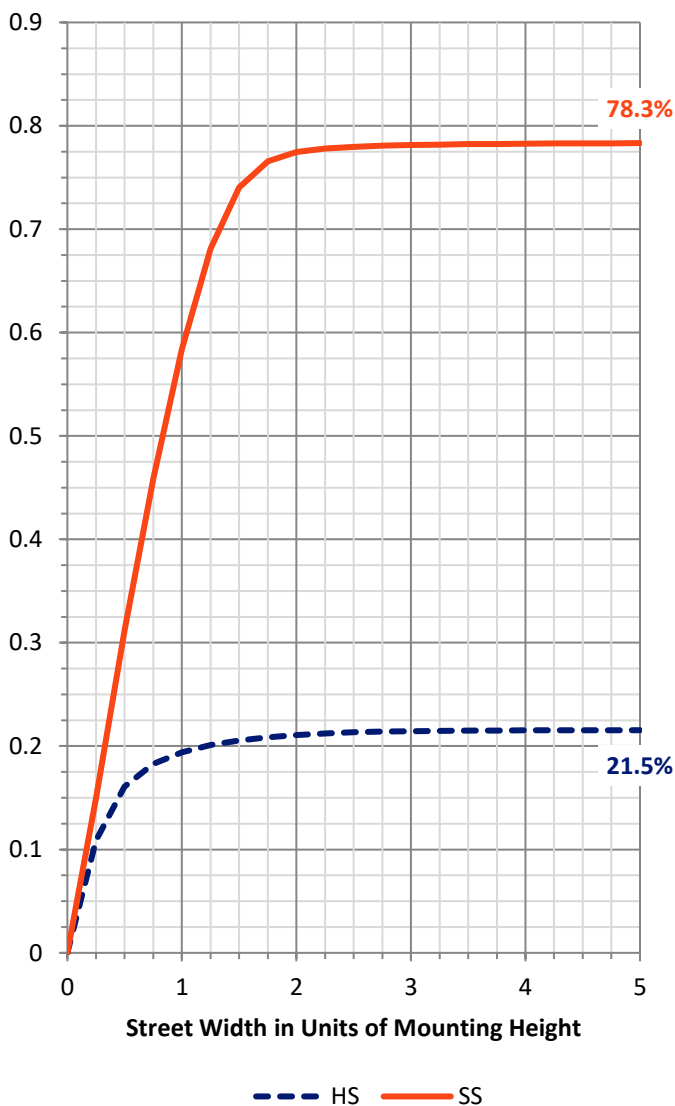
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2501.4	0.0	2501.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9000.2	0.0	9000.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	11501.5	0.0	11501.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	1.9
10°-20°	683.9	5.9
20°-30°	1240.4	10.8
30°-40°	1948.5	16.9
40°-50°	2842.4	24.7
50°-60°	3424.6	29.8
60°-70°	1002.7	8.7
70°-80°	127.2	1.1
80°-90°	17.8	0.2
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°	11501.5	100.0
0°-180°	11501.5	100.0

Coefficient of Utilization

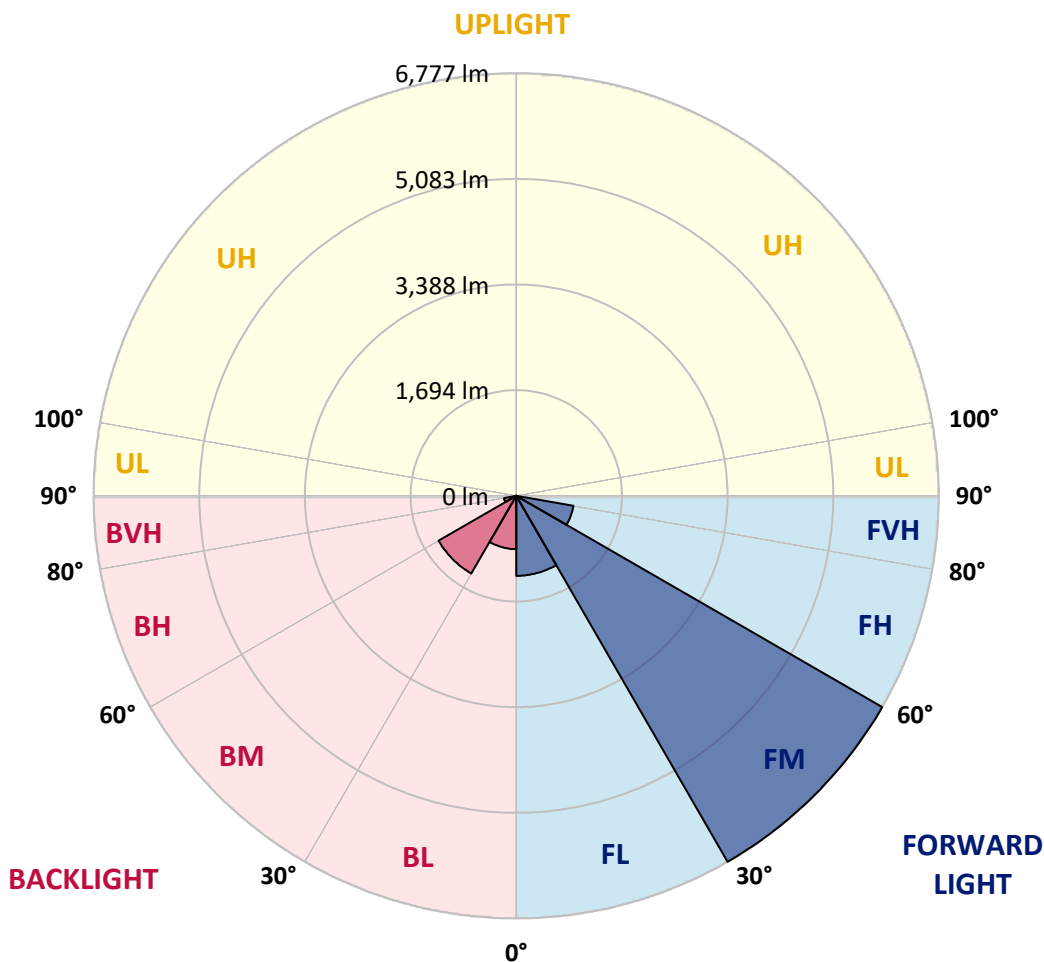


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1283.3	11.2			
FM (30°-60°)	6776.7	58.9			
FH (60°-80°)	931.1	8.1			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	855.0	7.4	B2/1000		
BM (30°-60°)	1438.8	12.5	B2/2500		
BH (60°-80°)	198.8	1.7	B1/500		G1/500
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8
2.5°	2236.6	2226.1	2226.1	2209.4	2228.2	2219.8	2226.1	2205.2	2226.1	2194.7	2219.8
5°	2247.1	2249.2	2240.8	2251.3	2251.3	2263.8	2242.9	2261.7	2272.2	2249.2	2238.7
7.5°	2301.5	2305.7	2303.6	2295.3	2312.0	2309.9	2307.8	2293.2	2297.3	2288.9	2276.3
10°	2408.3	2406.2	2416.7	2395.8	2383.1	2397.9	2402.1	2379.0	2362.2	2356.0	2316.2
12.5°	2563.3	2538.1	2523.5	2502.6	2508.8	2487.8	2525.6	2485.8	2477.4	2439.7	2400.0
15°	2688.9	2684.7	2686.8	2653.4	2615.6	2624.0	2624.0	2603.1	2590.5	2544.4	2487.8
17.5°	2946.5	2858.6	2877.4	2835.5	2804.1	2802.0	2783.2	2787.3	2753.9	2657.5	2571.7
20°	3147.5	3109.8	3080.5	3009.4	2961.2	2975.8	2967.5	2946.5	2936.0	2810.4	2688.9
22.5°	3327.7	3340.2	3292.0	3273.2	3206.2	3212.5	3229.2	3210.3	3130.8	3000.9	2820.9
25°	3581.1	3566.4	3501.5	3478.5	3415.6	3438.7	3503.5	3488.9	3438.7	3204.1	2923.5
27.5°	3880.5	3830.3	3842.8	3738.1	3677.4	3742.3	3819.8	3893.1	3750.7	3442.8	3044.9
30°	4092.1	4039.7	4035.5	4031.3	4016.6	4092.1	4182.0	4249.1	4133.9	3681.6	3246.0
32.5°	4196.8	4209.3	4244.9	4232.3	4360.1	4515.1	4609.3	4705.6	4561.2	4071.1	3511.9
35°	4475.3	4395.7	4475.3	4483.6	4615.6	4944.3	5063.7	5294.1	5258.5	4621.9	3836.6
37.5°	4638.6	4632.3	4642.8	4722.4	4850.1	5256.4	5426.0	5604.0	5537.0	4952.7	4240.7
40°	4908.7	4925.5	4923.4	4984.2	5124.5	5491.0	5560.0	5704.6	5710.8	5411.3	4835.5
42.5°	5342.3	5275.3	5231.3	5294.1	5491.0	5694.1	5832.3	5803.0	6010.3	5968.4	5599.8
45°	5731.8	5771.5	5706.6	5811.3	5882.5	5991.5	5987.2	6050.1	6314.0	6512.9	6175.7
47.5°	6096.2	6121.3	6152.7	6223.9	6378.9	6395.6	6360.1	6332.8	6697.2	6902.4	6621.8
50°	6314.0	6337.0	6483.6	6611.4	6900.3	6938.0	6958.9	6889.9	7137.0	7160.0	7042.7
52.5°	6255.3	6280.4	6485.7	6906.6	7367.3	7712.9	7650.1	7532.8	7518.1	7608.2	7432.3
55°	5736.0	5712.9	5995.7	6651.1	7513.9	8343.2	8351.6	8228.0	7991.4	7930.6	7373.6
56°	5294.1	5204.0	5564.2	6355.9	7325.4	8288.7	8383.0	8251.1	8029.1	7756.9	7011.3
57.5°	4337.0	4422.9	4781.0	5436.5	6674.2	7897.2	7951.6	7920.2	7752.7	7296.1	6169.5
60°	2391.6	2542.3	2858.6	3660.6	4751.7	6060.6	6104.6	6360.1	6391.4	5587.3	4244.9
62.5°	1015.7	998.9	1327.7	1918.2	2705.7	3658.5	3740.2	4002.0	4050.2	3220.9	2129.7
65°	412.6	435.6	601.1	965.4	1430.3	1666.9	1782.2	1868.0	2027.1	1329.8	785.3
67.5°	272.2	270.1	353.9	550.8	770.7	743.4	743.4	785.3	726.7	542.4	339.3
70°	194.8	201.1	253.4	381.1	479.5	356.0	341.4	326.7	370.6	358.1	274.3
72.5°	127.7	136.2	169.6	228.2	249.2	194.8	194.8	234.6	305.8	289.0	224.0
75°	83.8	85.9	104.7	132.0	123.5	100.5	111.0	157.1	222.0	213.6	159.1
77.5°	56.5	58.6	71.2	85.9	69.1	56.5	60.7	79.6	108.9	108.9	83.8
80°	20.9	23.0	29.4	27.2	31.5	39.8	44.0	54.4	64.9	64.9	56.5
82.5°	0.0	2.1	6.3	14.6	23.0	31.5	35.6	41.9	48.2	54.4	52.4
85°	0.0	2.1	6.3	10.5	16.7	18.8	20.9	14.6	12.5	12.5	10.5
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.2	2.1	2.1
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°	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8	2196.8
2.5°	2196.8	2194.7	2194.7	2188.5	2201.0	2194.7	2198.9	2196.8	2169.6	2190.6	2175.8
5°	2219.8	2234.5	2211.5	2207.3	2190.6	2196.8	2196.8	2175.8	2194.7	2192.6	2188.5
7.5°	2278.4	2253.4	2228.2	2203.1	2198.9	2192.6	2169.6	2161.2	2175.8	2159.1	2184.2
10°	2303.6	2307.8	2270.1	2236.6	2205.2	2161.2	2129.7	2110.9	2087.9	2113.0	2127.6
12.5°	2418.8	2376.9	2312.0	2259.6	2152.8	2108.8	2077.4	2069.0	2108.8	2117.2	2102.6
15°	2458.6	2452.3	2368.5	2251.3	2140.3	2087.9	2094.2	2077.4	2081.6	2060.7	2064.8
17.5°	2540.2	2469.0	2370.6	2224.0	2138.2	2125.6	2087.9	2020.9	1983.2	1966.4	1981.1
20°	2630.3	2561.2	2418.8	2234.5	2157.0	2123.5	2000.0	1918.2	1840.8	1798.9	1801.0
22.5°	2709.9	2624.0	2397.9	2238.7	2173.7	2035.6	1886.9	1725.6	1629.3	1564.3	1566.4
25°	2806.2	2684.7	2406.2	2247.1	2129.7	1895.2	1681.7	1524.6	1409.3	1365.4	1380.1
27.5°	2860.7	2722.4	2452.3	2265.9	2014.6	1696.3	1465.9	1319.4	1252.3	1231.4	1229.3
30°	3024.0	2806.2	2508.8	2228.2	1821.9	1482.7	1269.1	1179.0	1114.1	1095.2	1099.4
32.5°	3266.9	2959.1	2582.1	2129.7	1625.1	1292.1	1141.3	1074.3	1013.6	978.0	973.8
35°	3470.1	3220.9	2659.6	1976.9	1396.8	1145.5	1051.2	967.5	875.4	835.6	825.1
37.5°	3857.5	3516.1	2642.8	1746.5	1179.0	1036.6	955.0	852.4	772.7	718.3	712.0
40°	4372.6	3861.7	2561.2	1465.9	1017.8	940.3	852.4	753.9	655.5	609.4	605.2
42.5°	4998.8	4284.7	2412.5	1181.1	856.6	843.9	764.4	651.3	563.3	529.8	531.9
45°	5507.7	4646.9	2261.7	948.6	737.1	749.8	680.6	573.8	513.1	485.8	485.8
47.5°	5960.0	4892.0	2098.4	783.2	626.1	655.5	594.8	531.9	479.5	458.6	454.5
50°	6395.6	5141.2	1935.1	634.5	534.0	563.3	557.1	506.8	464.9	439.8	441.9
52.5°	6667.9	5181.0	1727.7	519.3	467.0	500.5	521.4	475.4	429.3	414.6	410.5
55°	6334.9	4667.9	1340.3	427.2	395.8	439.8	479.5	427.2	391.6	366.5	364.4
56°	5886.7	4173.7	1120.4	393.7	374.8	423.0	464.9	408.4	368.6	353.9	343.5
57.5°	4984.2	3415.6	827.2	349.7	347.7	393.7	441.9	389.6	343.5	330.8	330.8
60°	3107.7	1922.4	500.5	293.2	301.6	349.7	397.9	347.7	305.8	305.8	312.0
62.5°	1415.7	800.0	303.7	249.2	259.7	301.6	353.9	314.1	291.1	314.1	318.3
65°	481.6	345.6	219.9	199.0	205.2	249.2	303.7	318.3	316.2	330.8	339.3
67.5°	270.1	222.0	184.3	165.4	161.2	184.3	249.2	318.3	305.8	299.5	303.7
70°	228.2	188.5	163.3	146.6	140.3	148.7	192.7	240.9	215.7	209.4	205.2
72.5°	184.3	157.1	142.4	132.0	113.1	96.3	88.0	92.2	102.6	108.9	119.3
75°	129.9	119.3	119.3	106.8	81.7	60.7	48.2	39.8	27.2	18.8	20.9
77.5°	73.3	73.3	75.4	64.9	52.4	39.8	29.4	20.9	10.5	4.2	2.1
80°	50.3	54.4	58.6	52.4	44.0	35.6	25.1	14.6	6.3	0.0	0.0
82.5°	50.3	56.5	60.7	52.4	44.0	33.5	25.1	14.6	6.3	2.1	0.0
85°	10.5	12.5	14.6	16.7	25.1	25.1	18.8	12.5	6.3	2.1	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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)