

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: P651333

Luminaire Tested: **GALN-SA4D-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23223.4 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

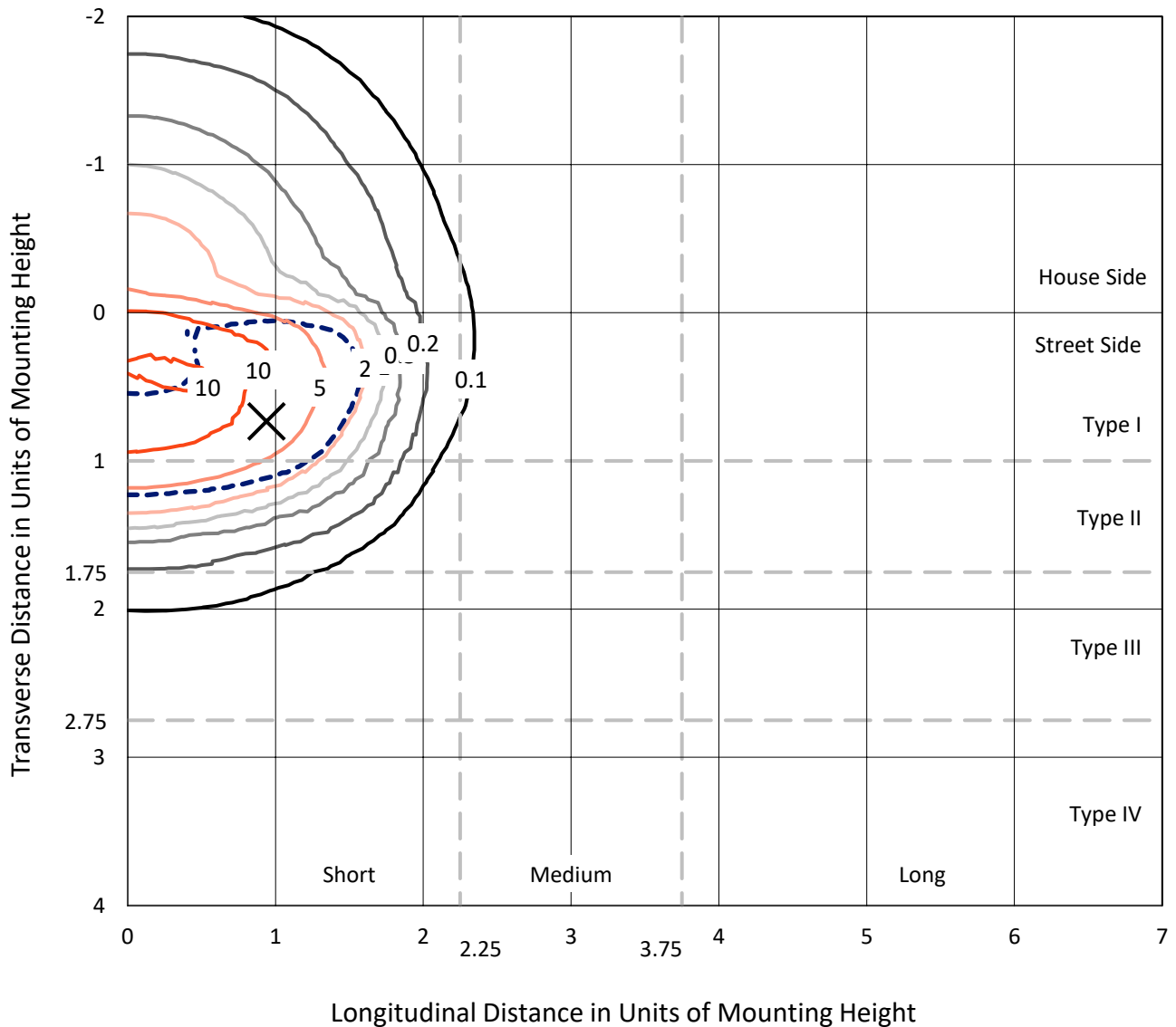
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

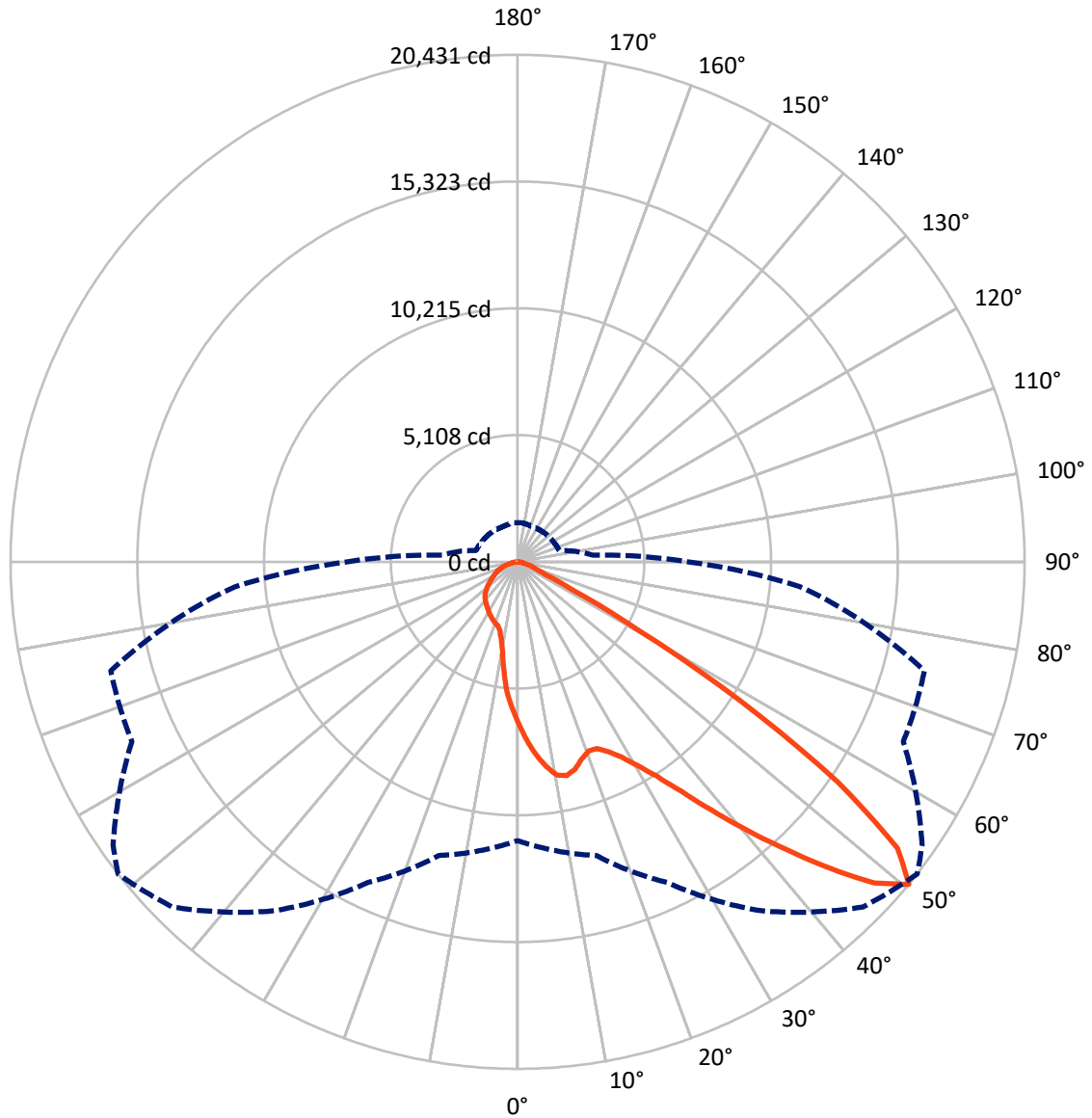
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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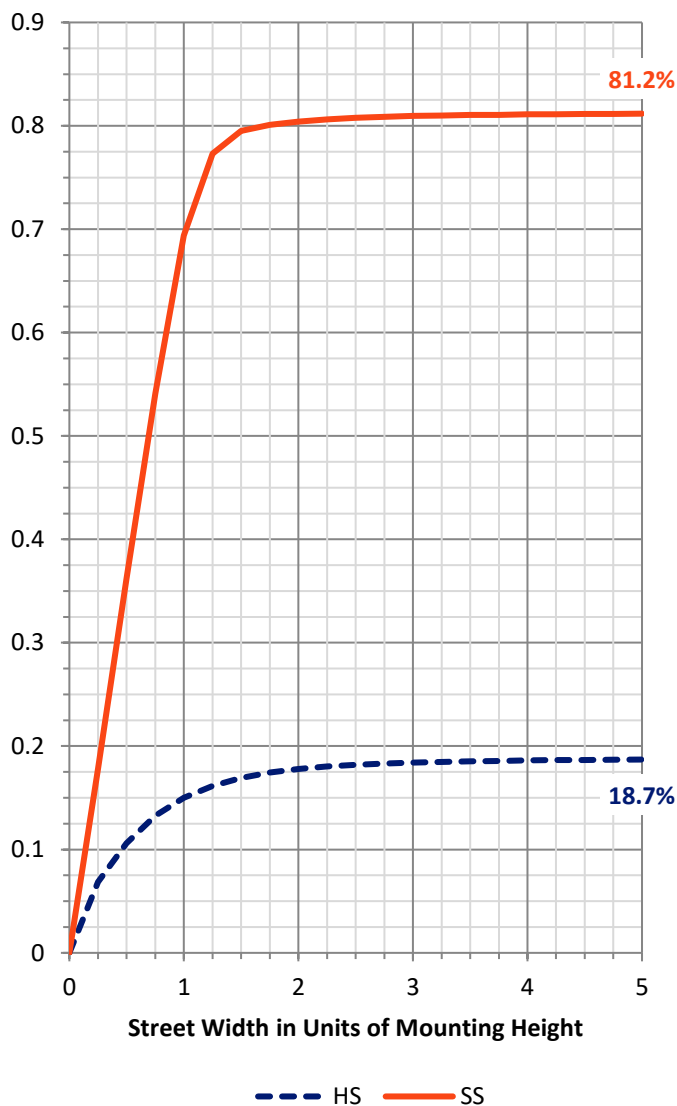
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4365.4	0.0	4365.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18857.9	0.0	18857.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	23223.4	0.0	23223.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.4	2.6
10°-20°	1617.2	7.0
20°-30°	2724.1	11.7
30°-40°	4571.2	19.7
40°-50°	6992.8	30.1
50°-60°	5098.3	22.0
60°-70°	1134.6	4.9
70°-80°	409.3	1.8
80°-90°	72.4	0.3
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°	23223.4	100.0
0°-180°	23223.4	100.0

Coefficient of Utilization

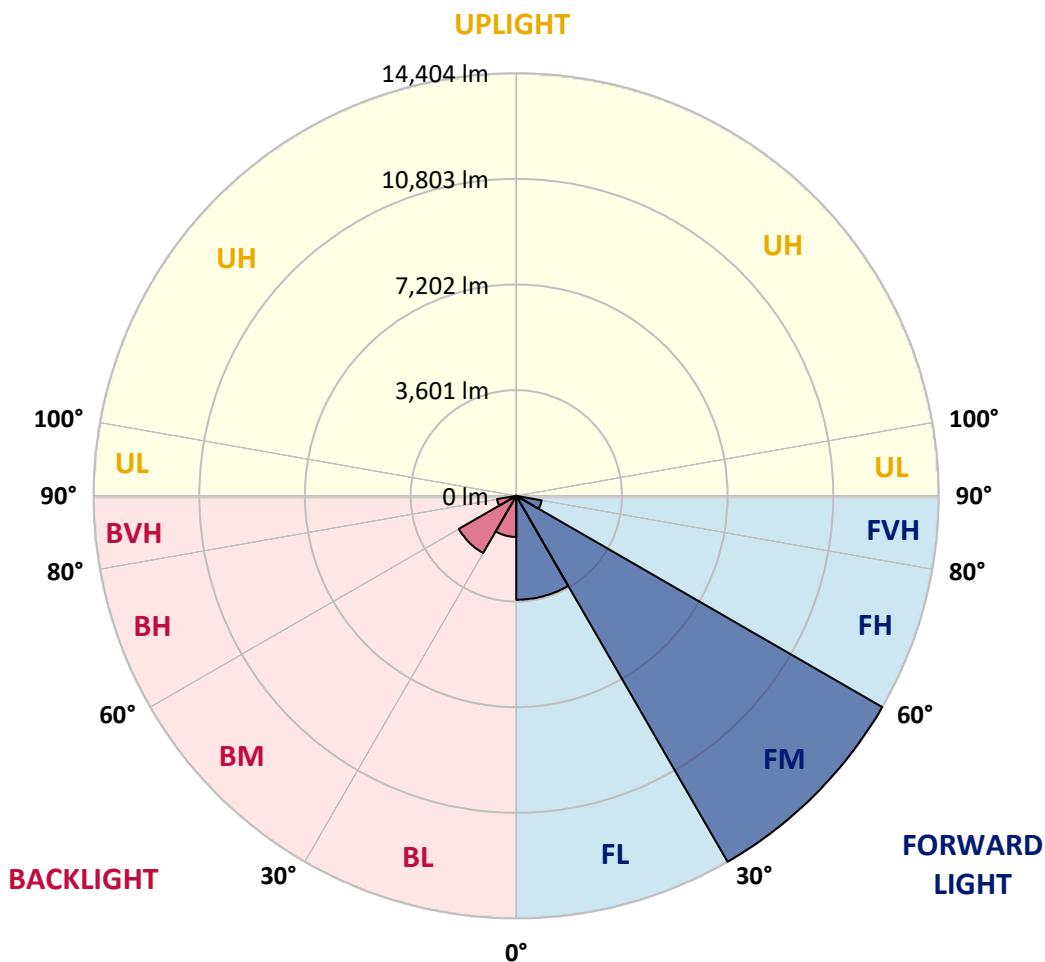


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3542.4	15.3			
FM (30°-60°)	14404.3	62.0			
FH (60°-80°)	878.8	3.8			G1/1800
FVH (80°-90°)	32.5	0.1			G1/100
BL (0°-30°)	1402.3	6.0	B3/2500		
BM (30°-60°)	2258.1	9.7	B2/2500		
BH (60°-80°)	665.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	40.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3
2.5°	7707.8	7559.4	7576.2	7469.8	7355.1	7321.6	7204.0	7092.1	7008.1	6828.9	6663.8
5°	8424.2	8379.5	8312.3	8228.3	8141.6	7928.9	7808.5	7668.6	7360.7	7083.7	6809.4
7.5°	8527.8	8519.4	8555.8	8555.8	8586.6	8505.5	8334.6	8236.8	7909.3	7458.7	6949.3
10°	7800.1	7825.3	8001.6	8231.1	8550.2	8771.3	8743.3	8718.1	8359.9	7744.2	7114.4
12.5°	7220.7	7164.8	7268.3	7464.3	7942.8	8477.4	8838.5	8841.3	8748.9	8200.3	7234.8
15°	6893.3	6932.5	6960.5	7052.9	7413.9	8032.4	8667.8	8855.2	9261.1	8522.2	7425.1
17.5°	7103.3	6971.7	6966.1	6988.5	7173.2	7637.8	8351.5	8673.3	9541.0	8936.4	7660.2
20°	7377.5	7374.7	7296.3	7268.3	7265.6	7679.8	8144.4	8581.0	9689.2	9473.8	7898.1
22.5°	7858.9	7858.9	7730.1	7668.6	7537.0	7875.7	8172.3	8469.0	9935.6	9843.2	8012.8
25°	8664.9	8533.4	8312.3	8161.1	8085.6	8206.0	8469.0	8734.9	10151.0	10235.1	8250.7
27.5°	9409.4	9202.3	9093.1	8832.9	8732.1	8662.1	8902.8	9171.5	10403.0	10845.2	8379.5
30°	10254.6	10218.2	10022.4	9686.5	9437.4	9308.7	9529.8	9795.6	10864.8	11469.3	8676.2
32.5°	11765.9	11435.7	11169.8	10758.4	10352.6	10078.3	10296.6	10473.0	11631.6	12121.4	9000.8
35°	13397.6	13291.2	12832.3	12090.6	11469.3	11223.0	11351.7	11483.3	12524.4	13117.7	9546.5
37.5°	15001.3	14855.8	14478.0	13853.8	13098.2	12597.2	12689.5	12843.5	13526.4	14461.2	10212.7
40°	16154.4	15975.3	15785.0	15692.6	14942.6	14256.9	14203.6	14242.8	14881.0	15720.6	10951.5
42.5°	16238.4	16459.5	16518.2	16890.5	16714.1	16151.6	15824.2	15832.6	16174.0	16966.1	11698.8
45°	16062.0	15857.7	16291.5	17307.5	17889.7	18152.7	17601.4	17531.4	16974.4	17688.1	12071.0
47.5°	14212.1	14268.1	15001.3	16607.8	18289.8	19465.4	19336.6	19104.3	17402.6	17662.9	12012.3
50°	11234.2	11572.8	12252.9	14254.0	17170.4	19672.4	20430.9	19893.5	17148.0	16968.9	11413.3
52.5°	7481.0	7621.0	8068.8	10652.0	13806.3	17584.6	19171.4	19294.6	16912.8	16059.2	10654.9
55°	3330.5	3319.3	3949.0	5563.9	8662.1	13380.8	15664.6	16414.7	16008.9	15132.9	9916.0
57.5°	1410.6	1458.1	1715.6	2404.2	4259.7	8074.4	10612.8	11270.6	12311.7	12426.4	7607.0
60°	954.4	960.0	1030.0	1203.5	1782.8	3792.3	5566.7	6355.9	7100.5	7050.0	4035.8
62.5°	750.1	769.7	822.8	892.8	1057.9	1721.3	2490.9	2930.3	2977.9	2504.9	1531.0
65°	640.9	643.7	696.9	755.6	828.5	1002.0	1200.7	1223.1	1237.0	1192.3	1125.1
67.5°	529.0	534.5	576.5	643.7	710.9	766.8	822.8	850.8	915.2	1041.2	1024.3
70°	419.8	428.2	464.6	520.6	582.1	615.7	685.7	710.9	769.7	867.6	906.8
72.5°	319.1	321.9	352.6	391.8	447.8	481.4	540.2	568.2	607.4	691.3	727.7
75°	229.5	237.9	260.3	279.9	288.3	310.7	366.7	397.5	453.4	489.8	492.6
77.5°	120.3	126.0	131.5	131.5	159.5	201.5	237.9	254.7	293.8	321.9	307.9
80°	47.6	50.4	64.3	86.8	111.9	145.6	170.7	179.1	212.7	229.5	237.9
82.5°	28.0	30.8	42.0	61.6	81.2	103.5	123.1	131.5	153.9	173.5	179.1
85°	14.0	16.8	25.2	39.2	53.2	64.3	61.6	58.8	58.8	56.0	58.8
87.5°	5.6	5.6	8.4	8.4	8.4	11.2	14.0	14.0	14.0	16.8	16.8
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°	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3	6546.3
2.5°	6554.7	6442.7	6339.2	6148.9	5941.7	5883.0	5642.3	5555.6	5493.9	5421.2	5398.8
5°	6588.2	6440.0	6106.9	5723.4	5418.4	5026.6	4769.1	4492.0	4290.5	4240.1	4226.1
7.5°	6658.2	6403.5	5829.8	5250.4	4626.3	4094.6	3688.8	3470.5	3277.4	3266.1	3246.5
10°	6736.6	6294.4	5527.6	4617.9	3820.3	3327.8	3084.2	2989.1	2941.5	2930.3	2924.7
12.5°	6801.0	6272.0	5188.9	4002.2	3249.4	2952.7	2879.9	2871.5	2891.1	2896.7	2907.9
15°	6828.9	6182.4	4780.2	3450.9	2893.9	2784.7	2815.6	2849.1	2863.1	2899.5	2871.5
17.5°	6882.2	6067.7	4276.5	3014.2	2695.2	2714.8	2768.0	2807.2	2829.5	2854.7	2818.4
20°	6910.2	5964.1	3803.5	2753.9	2625.3	2661.6	2734.3	2765.2	2793.1	2804.3	2762.3
22.5°	6884.9	5751.4	3386.5	2544.0	2558.1	2605.7	2670.0	2703.6	2686.8	2642.0	2616.9
25°	6817.7	5452.0	2952.7	2409.7	2462.9	2546.9	2597.3	2572.0	2541.2	2516.1	2507.7
27.5°	6815.0	5085.4	2639.2	2286.6	2381.7	2496.5	2479.7	2457.3	2471.3	2451.7	2429.3
30°	6828.9	4729.9	2381.7	2216.6	2322.9	2378.9	2398.5	2376.2	2392.9	2356.6	2367.8
32.5°	6756.2	4382.9	2213.8	2135.5	2253.0	2250.2	2314.6	2331.3	2292.1	2216.6	2227.8
35°	6787.0	4103.0	2071.0	2099.1	2174.7	2174.7	2225.0	2205.4	2101.8	2057.1	2068.3
37.5°	6999.6	3828.7	2001.1	2048.7	2099.1	2121.4	2104.7	2020.7	1995.5	1995.5	2001.1
40°	7201.2	3593.6	1959.1	2037.5	2029.1	2043.1	1919.9	1928.3	1928.3	1931.1	1917.1
42.5°	7380.3	3434.1	1925.6	1970.3	1984.3	1911.5	1836.0	1827.6	1847.2	1844.4	1833.2
45°	7444.7	3302.5	1878.0	1894.8	1906.0	1785.6	1749.2	1732.5	1754.8	1763.2	1774.4
47.5°	7198.4	3193.4	1824.8	1791.2	1768.8	1690.4	1642.9	1612.1	1640.0	1687.6	1698.8
50°	6882.2	3050.6	1740.8	1676.4	1628.8	1595.3	1561.7	1531.0	1550.5	1584.1	1575.7
52.5°	6414.7	2826.8	1634.5	1567.3	1486.1	1494.5	1463.8	1446.9	1458.1	1458.1	1449.7
55°	5748.7	2322.9	1455.4	1407.7	1340.6	1363.0	1368.6	1346.2	1323.8	1343.4	1326.6
57.5°	3923.9	1640.0	1298.6	1298.6	1231.5	1262.3	1259.4	1206.2	1153.1	1158.6	1147.5
60°	2269.8	1307.0	1197.8	1186.7	1116.7	1141.9	1147.5	1111.1	1030.0	1035.5	1024.3
62.5°	1290.3	1116.7	1046.7	1030.0	1015.9	1038.3	1038.3	990.8	920.8	926.4	915.2
65°	1097.1	1035.5	934.8	932.0	926.4	932.0	909.6	859.2	797.6	772.5	775.2
67.5°	996.3	957.1	859.2	834.0	817.2	814.4	772.5	724.9	696.9	674.5	671.7
70°	873.2	842.4	769.7	736.0	719.3	680.1	638.2	607.4	568.2	556.9	568.2
72.5°	691.3	688.5	660.5	624.1	587.8	556.9	520.6	478.6	442.2	433.8	414.2
75°	478.6	484.2	489.8	484.2	453.4	414.2	372.2	338.7	293.8	268.7	263.1
77.5°	313.4	321.9	330.3	319.1	299.5	263.1	235.1	193.1	159.5	139.9	137.2
80°	229.5	240.7	246.3	237.9	215.5	187.5	156.8	123.1	98.0	81.2	81.2
82.5°	176.4	187.5	193.1	179.1	156.8	134.3	111.9	86.8	67.2	53.2	50.4
85°	61.6	58.8	70.0	72.7	86.8	81.2	67.2	50.4	39.2	28.0	25.2
87.5°	16.8	16.8	19.6	19.6	16.8	14.0	14.0	14.0	11.2	8.4	8.4
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)