

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: P651238

Luminaire Tested: **GALN-SA2D-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12806.8 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

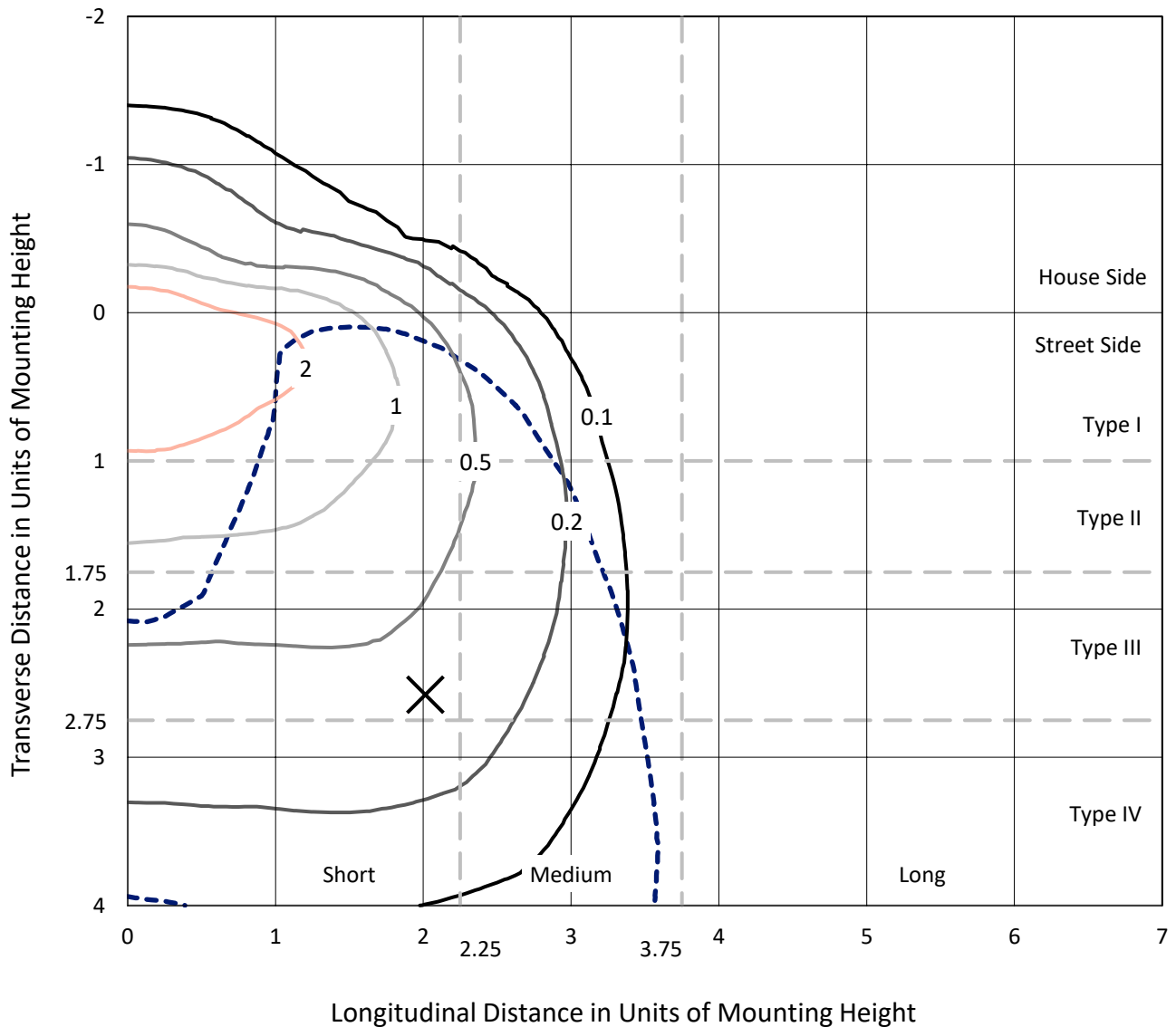
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

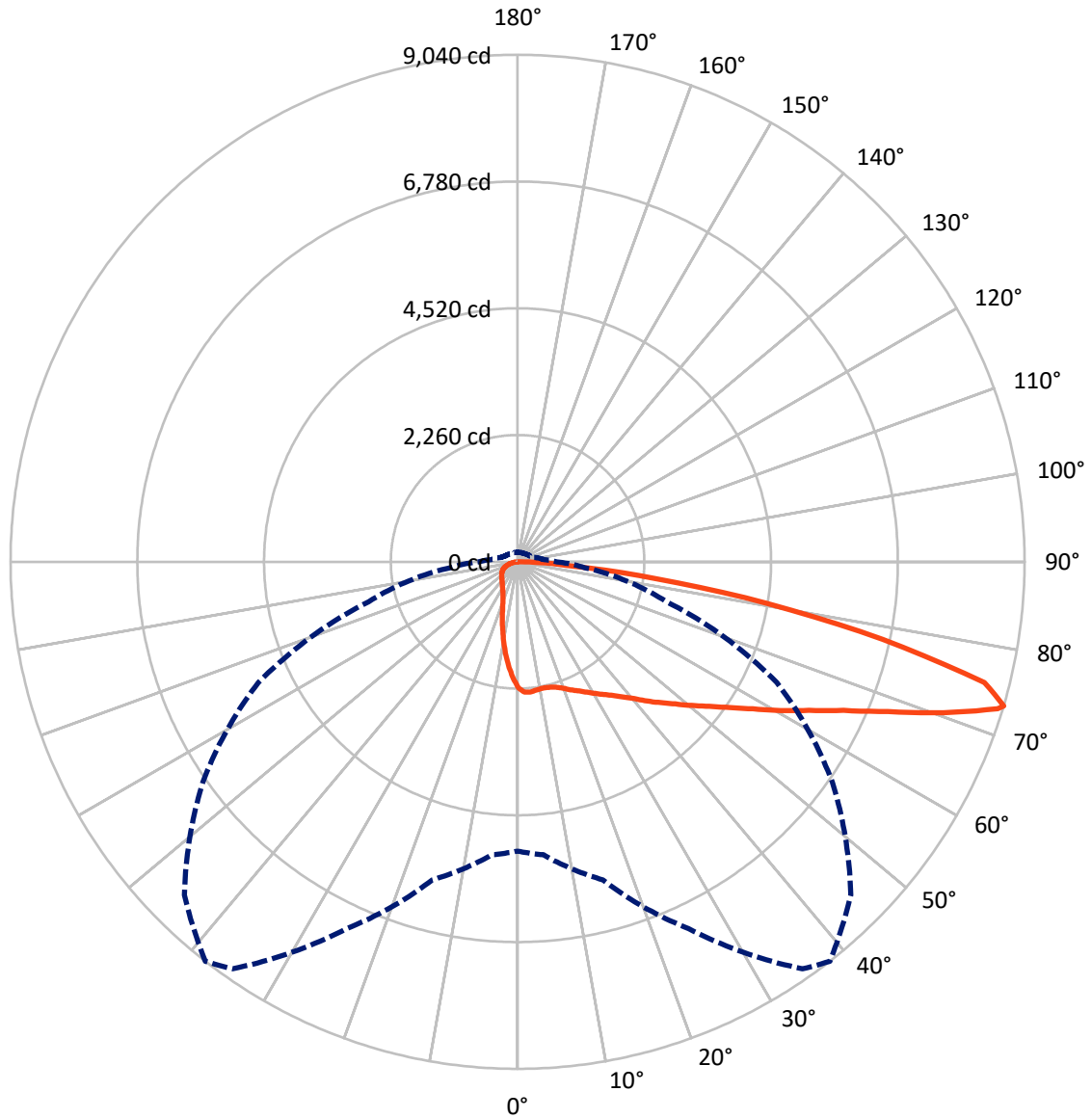
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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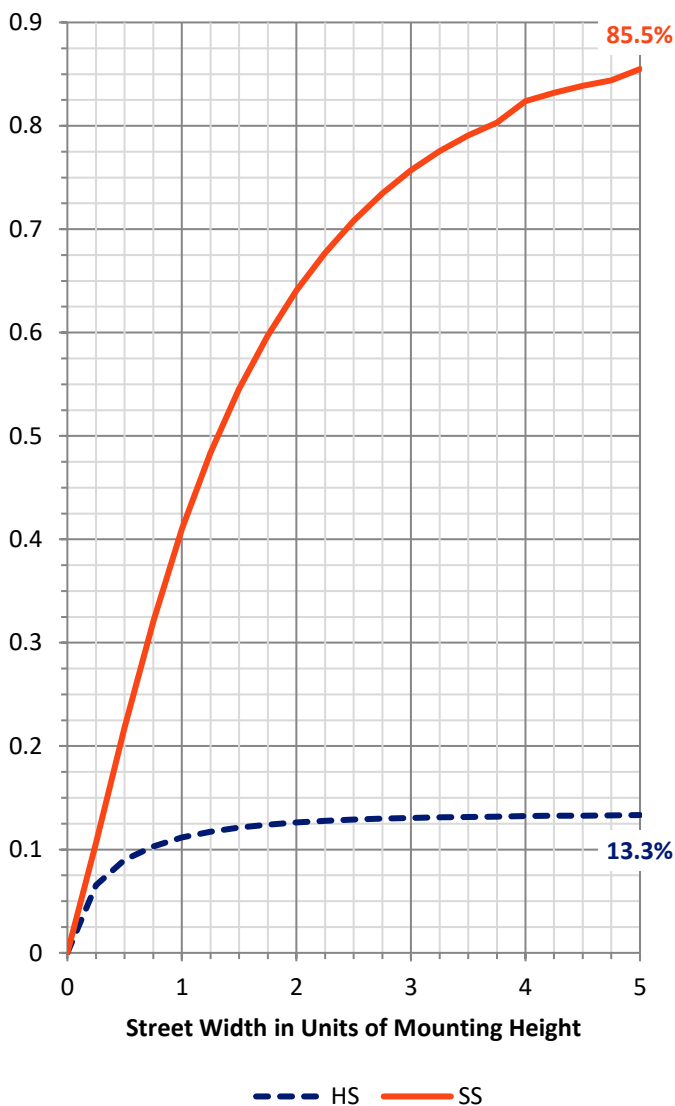
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1721.6	0.0	1721.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11085.1	0.0	11085.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	12806.8	0.0	12806.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.5
10°-20°	503.6	3.9
20°-30°	784.2	6.1
30°-40°	1150.3	9.0
40°-50°	1706.3	13.3
50°-60°	2417.5	18.9
60°-70°	3066.7	23.9
70°-80°	2552.8	19.9
80°-90°	428.9	3.3
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°	12806.8	100.0
0°-180°	12806.8	100.0

Coefficient of Utilization

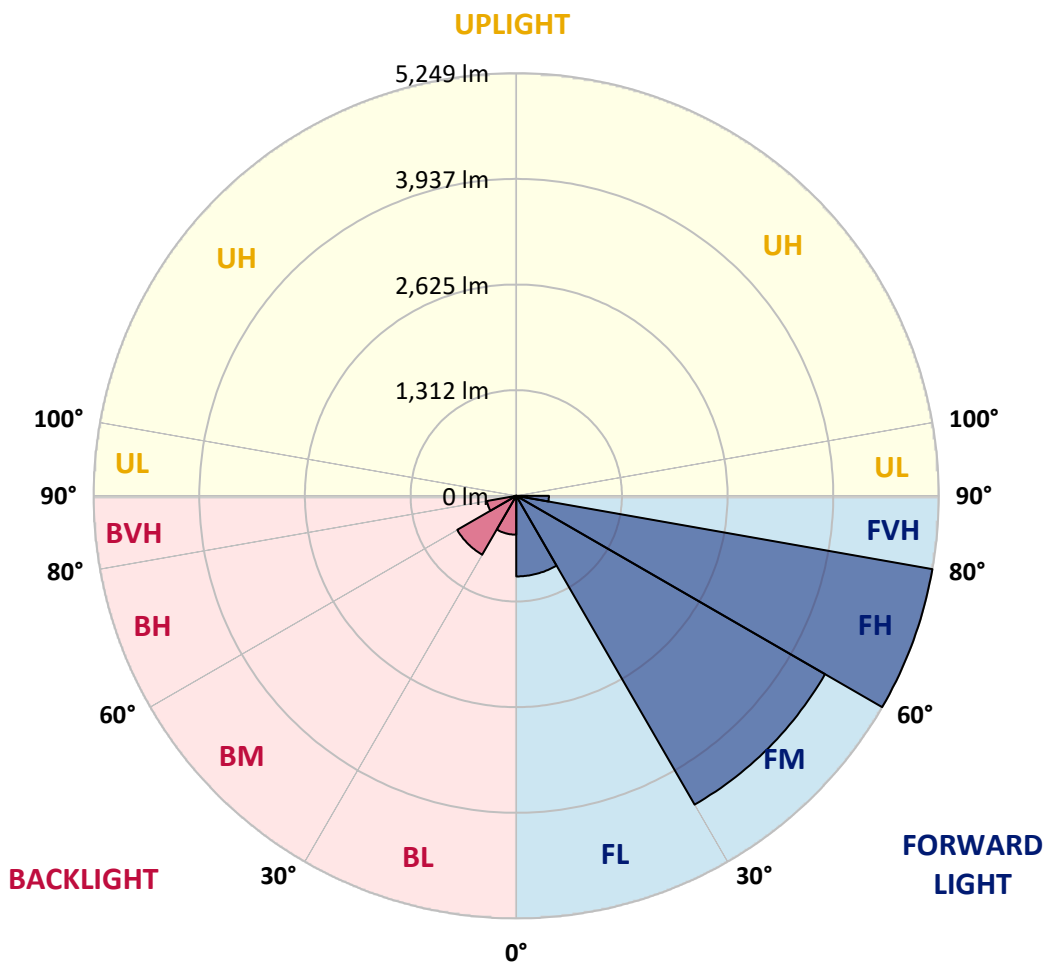


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.1	7.8			
FM (30°-60°)	4428.9	34.6			
FH (60°-80°)	5249.4	41.0			G3/7500
FVH (80°-90°)	405.6	3.2			G3/500
BL (0°-30°)	483.1	3.8	B1/500		
BM (30°-60°)	845.2	6.6	B1/1000		
BH (60°-80°)	370.0	2.9	B1/500		G1/500
BVH (80°-90°)	23.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9
2.5°	2340.3	2351.9	2346.1	2338.1	2333.1	2328.1	2320.8	2299.8	2283.2	2265.1	2236.9
5°	2357.7	2364.9	2359.8	2349.8	2338.1	2333.1	2319.4	2291.9	2265.1	2234.7	2192.8
7.5°	2347.6	2350.4	2344.7	2332.3	2322.3	2312.8	2296.9	2266.6	2234.0	2197.1	2142.2
10°	2311.4	2322.3	2322.3	2312.2	2302.0	2296.9	2281.0	2252.1	2222.4	2180.5	2115.5
12.5°	2281.7	2293.3	2302.7	2299.8	2299.1	2299.1	2286.8	2265.1	2230.4	2190.6	2113.3
15°	2261.5	2275.2	2295.5	2307.0	2314.3	2316.5	2311.4	2292.6	2257.2	2210.9	2121.9
17.5°	2257.2	2273.8	2310.6	2336.0	2354.8	2354.0	2352.6	2326.6	2287.5	2239.8	2132.8
20°	2276.7	2298.4	2349.8	2389.5	2416.9	2411.9	2404.0	2370.0	2324.4	2270.9	2142.9
22.5°	2335.3	2357.7	2414.1	2457.5	2484.2	2484.2	2460.3	2415.5	2367.1	2307.0	2156.7
25°	2419.1	2443.8	2503.7	2547.9	2560.2	2550.8	2527.0	2472.7	2416.9	2359.2	2185.6
27.5°	2521.8	2551.5	2607.2	2644.1	2640.5	2633.3	2608.6	2539.2	2483.6	2430.7	2234.7
30°	2649.9	2671.6	2729.4	2738.1	2725.1	2723.7	2688.9	2619.5	2567.4	2527.0	2304.9
32.5°	2770.7	2790.2	2836.4	2840.1	2816.9	2819.8	2787.2	2723.7	2694.0	2679.5	2422.8
35°	2898.7	2908.8	2948.5	2944.3	2929.0	2926.8	2913.8	2853.1	2862.5	2888.5	2589.9
37.5°	3005.6	3025.9	3048.4	3052.0	3051.2	3058.5	3067.1	3038.2	3092.4	3174.2	2808.9
40°	3104.0	3121.4	3154.7	3166.3	3194.5	3208.9	3238.6	3239.3	3364.4	3498.9	3078.7
42.5°	3170.6	3200.3	3262.4	3283.4	3352.1	3395.5	3439.6	3486.6	3668.2	3841.0	3397.0
45°	3228.4	3267.5	3370.9	3436.0	3529.3	3582.1	3675.4	3773.7	4034.9	4261.2	3720.2
47.5°	3316.0	3350.6	3469.3	3584.3	3725.3	3786.0	3925.6	4072.5	4413.8	4661.8	4029.7
50°	3437.4	3458.4	3579.2	3766.5	3946.6	4024.7	4209.1	4421.1	4818.8	5057.4	4301.7
52.5°	3592.9	3601.6	3697.8	3947.3	4184.6	4281.4	4525.9	4773.3	5173.2	5401.0	4517.2
55°	3776.7	3762.2	3837.4	4139.0	4456.5	4583.0	4845.6	5129.8	5571.6	5678.7	4674.2
57.5°	3958.2	3935.7	3995.8	4371.9	4792.0	4944.7	5250.5	5497.2	5927.5	5938.3	4784.1
60°	4150.5	4133.9	4205.5	4645.3	5203.5	5384.3	5667.2	5878.3	6271.8	6119.1	4801.4
62.5°	4348.0	4321.2	4423.2	4952.6	5667.2	5831.3	6105.4	6283.3	6609.5	6186.4	4634.4
65°	4539.6	4527.4	4685.0	5317.8	6195.1	6381.7	6647.9	6768.6	6880.0	6085.1	4220.0
67.5°	4743.6	4768.1	5019.8	5805.3	6883.6	7117.9	7405.0	7291.5	6957.3	5605.7	3553.9
70°	5054.6	5070.5	5459.6	6443.8	7771.0	8053.8	8192.6	7477.3	6584.2	4695.1	2671.6
72.5°	5188.4	5258.5	5852.3	7114.3	8779.1	8951.9	8457.3	7063.0	5484.9	3189.4	1403.8
73°	5158.7	5242.6	5870.3	7216.3	8858.0	9039.5	8400.9	6849.6	5098.6	2746.8	1203.5
75°	4789.2	4892.6	5635.3	7130.9	8704.6	8596.2	7494.0	5837.8	3445.4	1249.0	548.2
77.5°	3778.8	3808.5	4465.1	5758.2	6854.7	6653.6	5608.5	3648.6	1407.4	464.3	311.0
80°	1895.5	2004.8	2516.8	3298.6	4583.8	4517.9	3540.2	1725.6	586.5	272.7	206.1
82.5°	912.0	989.4	1225.8	1608.4	2532.7	2472.7	1753.1	943.1	372.5	159.1	121.5
85°	587.3	645.1	780.4	767.3	1041.4	994.4	787.6	713.8	220.6	83.2	84.6
87.5°	387.6	424.5	509.1	407.2	379.0	342.8	347.8	402.1	43.4	31.8	11.6
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°	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9	2249.9
2.5°	2225.4	2216.0	2184.8	2154.5	2125.5	2098.0	2080.0	2056.1	2040.2	2044.6	2051.0
5°	2169.6	2148.7	2093.8	2040.2	1989.6	1929.5	1881.1	1842.0	1812.4	1801.5	1799.4
7.5°	2111.1	2075.7	1996.8	1904.9	1818.9	1744.4	1658.4	1615.6	1565.8	1548.4	1542.6
10°	2075.7	2027.9	1917.2	1789.2	1659.8	1536.1	1442.8	1366.9	1298.2	1285.1	1278.7
12.5°	2065.5	2002.6	1853.6	1688.7	1516.6	1364.7	1226.6	1126.8	1060.2	1045.0	1022.7
15°	2059.7	1981.6	1794.3	1587.5	1369.1	1183.9	1038.6	922.1	861.4	820.8	821.6
17.5°	2054.6	1957.8	1727.8	1476.8	1241.7	1028.4	867.8	763.0	707.3	685.6	683.5
20°	2047.4	1929.5	1651.1	1360.4	1096.4	886.7	741.3	663.2	625.6	607.5	606.8
22.5°	2044.6	1902.1	1575.9	1241.7	967.7	777.4	657.4	602.4	578.6	566.2	566.2
25°	2051.8	1882.5	1497.1	1129.0	853.4	684.2	599.5	562.0	548.2	541.7	539.5
27.5°	2074.2	1873.8	1418.9	1016.1	748.5	620.5	560.5	534.5	524.4	519.2	520.0
30°	2116.9	1873.2	1342.3	904.7	670.4	572.0	529.4	511.3	503.3	500.5	499.7
32.5°	2185.6	1889.1	1267.1	812.9	604.6	531.6	500.5	487.4	483.8	481.6	481.0
35°	2302.0	1933.9	1192.6	729.0	554.0	495.4	473.0	466.5	461.4	463.6	464.3
37.5°	2458.9	2011.3	1121.7	663.2	515.6	468.6	449.9	444.0	441.2	443.3	445.5
40°	2669.4	2122.7	1062.4	610.4	488.2	446.2	429.6	424.5	421.7	425.3	426.0
42.5°	2901.5	2251.4	1013.2	569.2	465.7	427.4	411.5	405.7	403.6	405.7	406.5
45°	3140.2	2401.1	987.9	539.5	446.9	413.7	397.0	390.6	385.5	384.0	386.2
47.5°	3375.3	2531.2	987.2	521.4	431.8	401.4	383.3	376.1	369.5	365.9	365.2
50°	3566.9	2634.7	1004.6	513.5	418.7	387.6	369.5	362.3	353.6	346.4	347.8
52.5°	3711.6	2702.0	1012.5	509.9	411.5	373.2	355.1	348.6	338.5	329.1	329.1
55°	3804.9	2717.9	993.0	506.3	405.7	358.0	338.5	332.7	322.5	313.2	313.2
57.5°	3836.6	2668.7	922.8	497.5	400.0	345.0	321.9	316.8	308.8	299.4	298.0
60°	3762.9	2502.3	799.9	471.5	388.4	331.3	303.8	301.6	298.7	290.7	290.0
62.5°	3478.7	2149.4	666.1	437.6	368.9	316.8	287.1	290.7	292.9	288.5	287.9
65°	3005.6	1745.2	569.2	390.6	342.8	296.5	269.0	278.5	284.3	284.3	282.7
67.5°	2438.0	1340.1	479.5	350.0	310.2	269.0	248.8	256.0	260.4	258.9	262.6
70°	1732.8	907.6	390.6	303.8	269.0	237.9	222.8	222.8	219.8	218.4	218.4
72.5°	840.4	518.6	316.8	253.8	229.3	203.2	190.9	185.9	180.1	179.4	175.8
73°	702.2	465.0	302.3	244.5	219.8	198.1	184.4	176.4	172.8	170.0	169.2
75°	427.4	353.0	252.4	206.1	187.3	170.6	158.4	151.1	147.5	145.3	144.7
77.5°	281.3	263.2	196.0	157.7	143.2	133.0	128.0	120.8	118.6	115.7	115.7
80°	209.7	201.1	140.3	111.3	102.7	94.0	92.6	91.2	85.4	81.7	80.3
82.5°	135.2	143.2	95.5	74.5	65.1	57.9	58.6	60.7	55.0	49.9	48.4
85°	96.2	103.4	57.9	34.0	27.5	23.9	26.7	23.9	24.6	19.5	15.9
87.5°	15.9	27.5	10.1	4.4	2.2	1.4	0.0	0.0	0.0	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)