

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: P647278

Luminaire Tested: **GALN-SA2D-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647278
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-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 11923.5 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

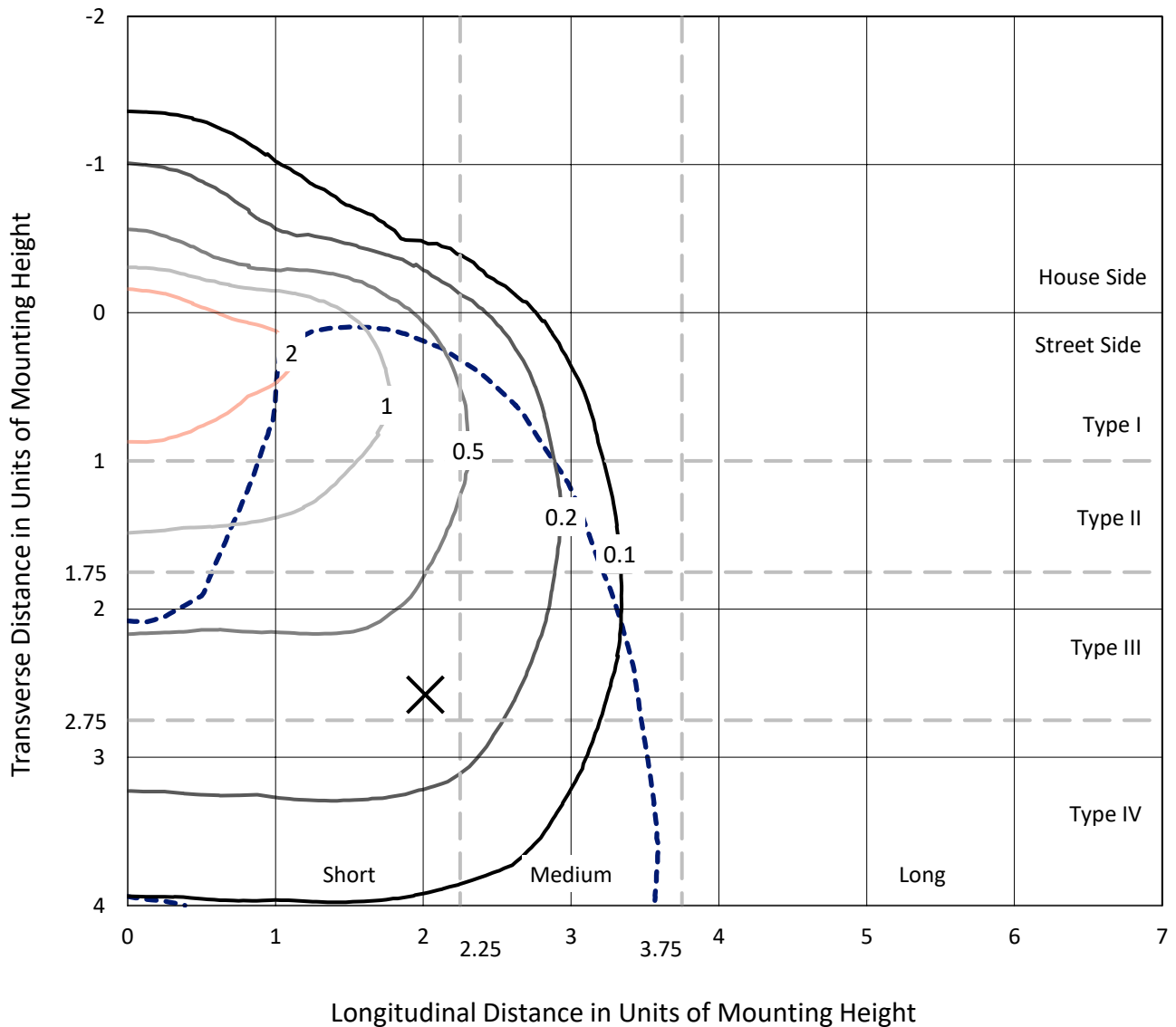
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

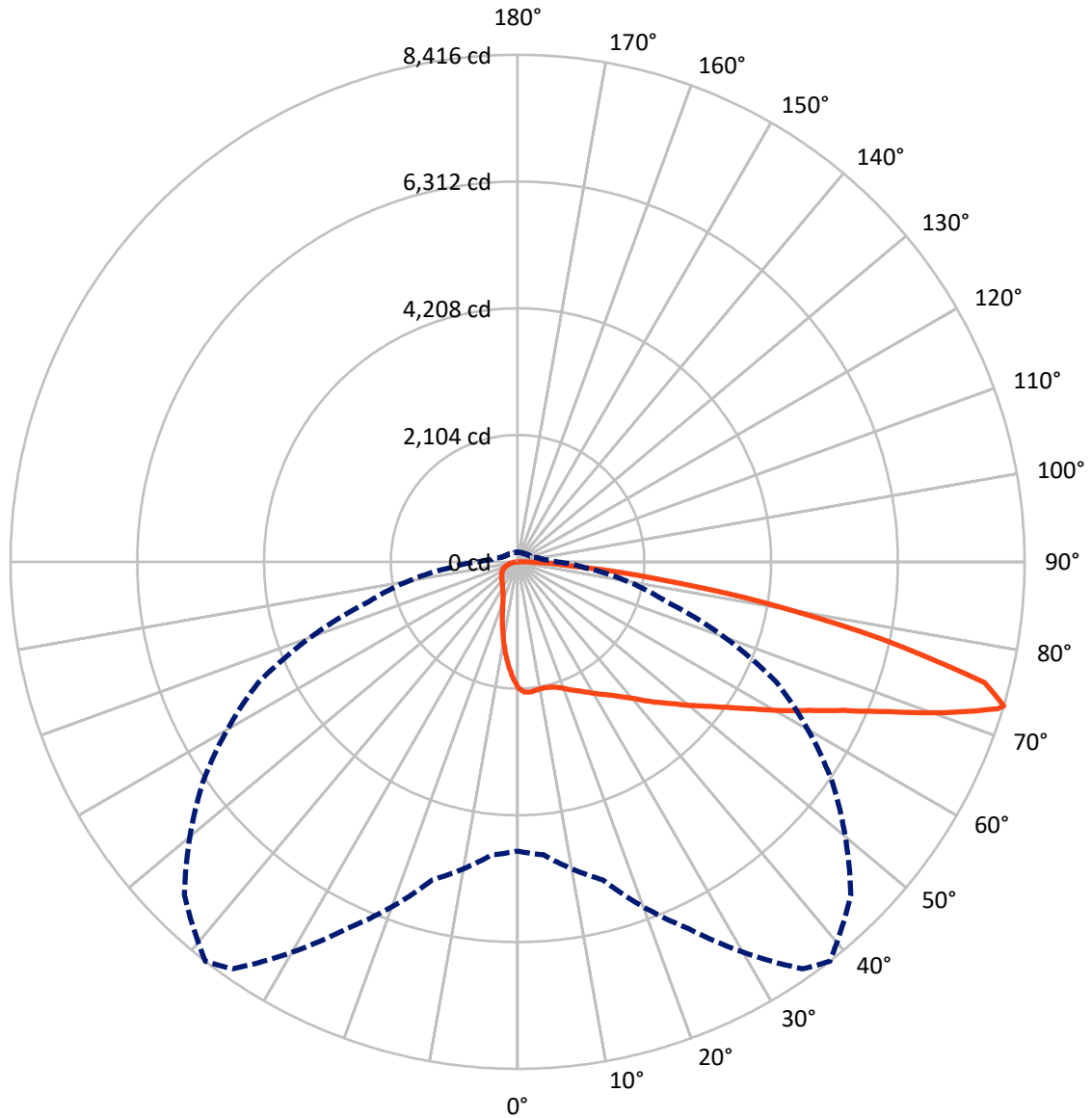
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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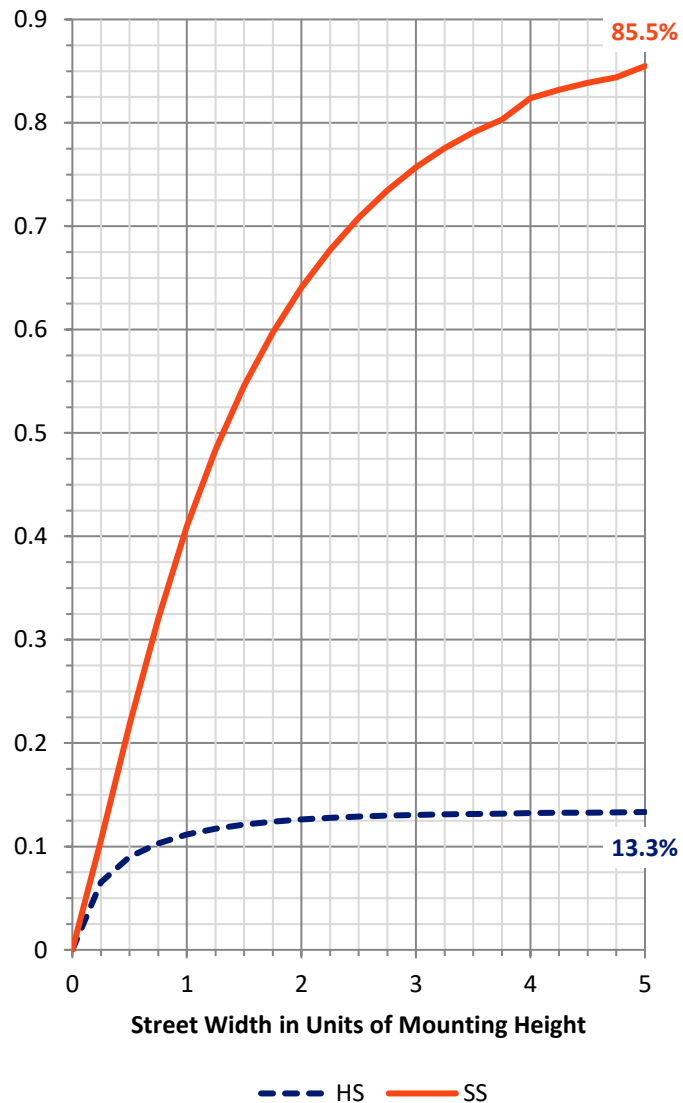
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1602.9	0.0	1602.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10320.7	0.0	10320.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	11923.5	0.0	11923.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.5
10°-20°	468.9	3.9
20°-30°	730.1	6.1
30°-40°	1071.0	9.0
40°-50°	1588.6	13.3
50°-60°	2250.8	18.9
60°-70°	2855.2	23.9
70°-80°	2376.7	19.9
80°-90°	399.3	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°	11923.5	100.0
0°-180°	11923.5	100.0

Coefficient of Utilization



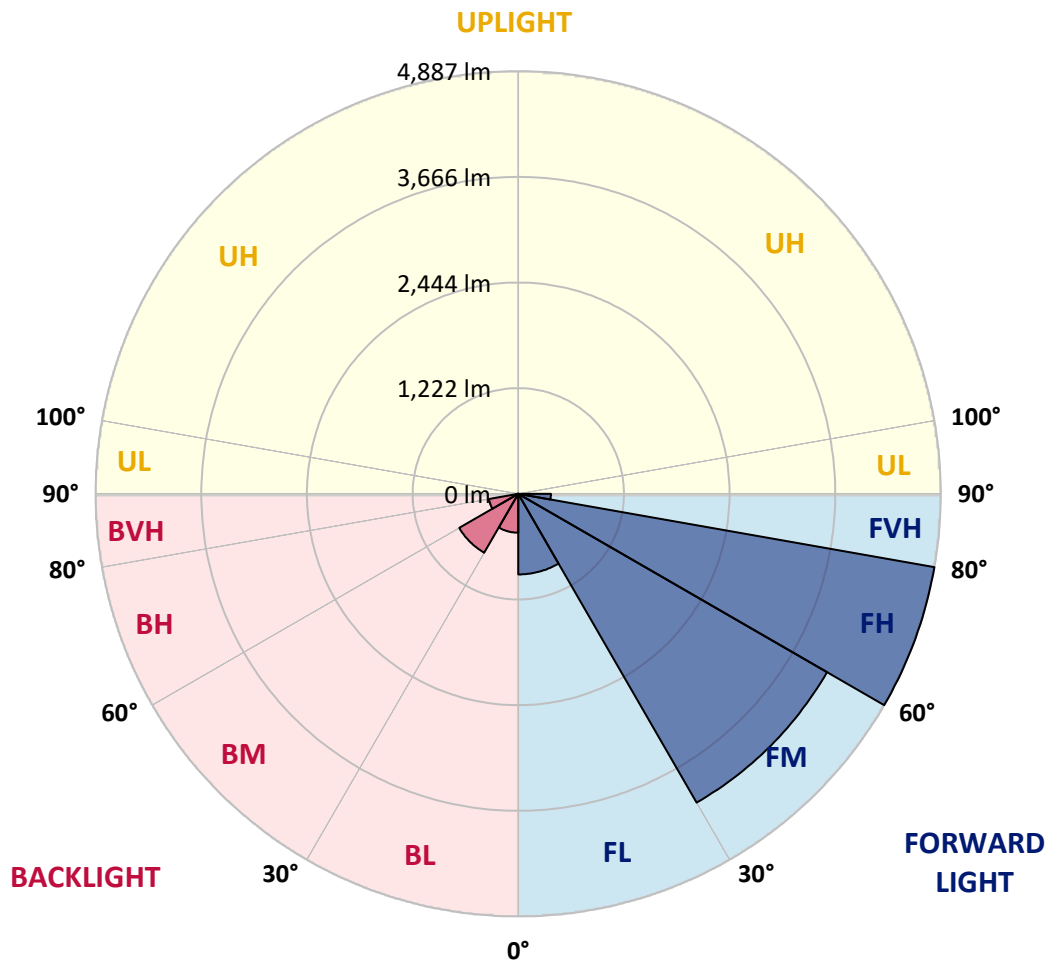
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.1	7.8			
FM (30°-60°)	4123.5	34.6			
FH (60°-80°)	4887.4	41.0			G2/5000
FVH (80°-90°)	377.7	3.2			G3/500
BL (0°-30°)	449.8	3.8	B1/500		
BM (30°-60°)	786.9	6.6	B1/1000		
BH (60°-80°)	344.5	2.9	B1/500		G1/500
BVH (80°-90°)	21.7	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°	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8
2.5°	2178.9	2189.7	2184.3	2176.9	2172.2	2167.5	2160.8	2141.2	2125.8	2108.9	2082.6
5°	2195.1	2201.8	2197.1	2187.7	2176.9	2172.2	2159.4	2133.8	2108.9	2080.6	2041.6
7.5°	2185.7	2188.3	2183.0	2171.5	2162.1	2153.3	2138.5	2110.3	2080.0	2045.6	1994.5
10°	2152.0	2162.1	2162.1	2152.7	2143.2	2138.5	2123.7	2096.8	2069.2	2030.1	1969.6
12.5°	2124.4	2135.2	2143.9	2141.2	2140.6	2140.6	2129.1	2108.9	2076.6	2039.6	1967.5
15°	2105.6	2118.3	2137.2	2147.9	2154.7	2156.7	2152.0	2134.5	2101.5	2058.4	1975.6
17.5°	2101.5	2117.0	2151.3	2174.9	2192.4	2191.7	2190.4	2166.2	2129.8	2085.4	1985.7
20°	2119.7	2139.9	2187.7	2224.7	2250.3	2245.6	2238.2	2206.6	2164.1	2114.3	1995.1
22.5°	2174.2	2195.1	2247.6	2288.0	2312.9	2312.9	2290.7	2248.9	2203.8	2147.9	2007.9
25°	2252.3	2275.2	2331.1	2372.2	2383.6	2374.8	2352.7	2302.2	2250.3	2196.5	2034.9
27.5°	2347.9	2375.5	2427.4	2461.8	2458.4	2451.7	2428.7	2364.1	2312.3	2263.1	2080.6
30°	2467.2	2487.4	2541.1	2549.3	2537.2	2535.8	2503.5	2438.8	2390.3	2352.7	2146.0
32.5°	2579.6	2597.8	2640.8	2644.2	2622.7	2625.3	2595.0	2535.8	2508.2	2494.7	2255.7
35°	2698.8	2708.2	2745.2	2741.2	2727.0	2725.0	2712.9	2656.3	2665.1	2689.3	2411.2
37.5°	2798.4	2817.2	2838.1	2841.5	2840.8	2847.5	2855.6	2828.7	2879.2	2955.3	2615.2
40°	2890.0	2906.1	2937.1	2947.9	2974.1	2987.6	3015.3	3015.9	3132.4	3257.6	2866.4
42.5°	2951.9	2979.5	3037.4	3057.0	3121.0	3161.4	3202.4	3246.2	3415.2	3576.1	3162.7
45°	3005.8	3042.1	3138.4	3199.0	3285.9	3335.0	3421.9	3513.5	3756.6	3967.3	3463.7
47.5°	3087.3	3119.6	3230.0	3337.1	3468.4	3524.9	3654.9	3791.6	4109.4	4340.3	3751.8
50°	3200.4	3219.9	3332.4	3506.7	3674.4	3747.1	3918.8	4116.2	4486.4	4708.6	4005.0
52.5°	3345.1	3353.2	3442.8	3675.1	3896.0	3986.2	4213.8	4444.1	4816.4	5028.5	4205.6
55°	3516.2	3502.8	3572.8	3853.5	4149.1	4267.0	4511.4	4776.0	5187.4	5287.1	4351.8
57.5°	3685.2	3664.3	3720.2	4070.3	4461.5	4603.6	4888.4	5118.1	5518.7	5528.8	4454.2
60°	3864.3	3848.8	3915.5	4324.9	4844.7	5013.0	5276.3	5472.9	5839.2	5697.1	4470.3
62.5°	4048.1	4023.2	4118.1	4611.0	5276.3	5429.2	5684.3	5849.9	6153.7	5759.7	4314.8
65°	4226.6	4215.1	4361.9	4951.1	5767.8	5941.6	6189.4	6301.8	6405.5	5665.5	3928.9
67.5°	4416.4	4439.3	4673.6	5404.9	6408.9	6627.0	6894.3	6788.6	6477.5	5219.1	3308.8
70°	4706.0	4720.8	5083.1	5999.4	7235.1	7498.3	7627.6	6961.7	6130.1	4371.3	2487.4
72.5°	4830.6	4895.9	5448.7	6623.6	8173.7	8334.6	7874.0	6575.9	5106.6	2969.4	1307.0
73°	4802.9	4881.1	5465.5	6718.6	8247.1	8416.1	7821.5	6377.2	4747.0	2557.4	1120.5
75°	4458.9	4555.2	5246.6	6639.1	8104.3	8003.4	6977.2	5435.2	3207.8	1162.8	510.4
77.5°	3518.2	3545.8	4157.2	5361.1	6381.9	6194.7	5221.7	3397.0	1310.4	432.3	289.6
80°	1764.8	1866.5	2343.2	3071.1	4267.7	4206.4	3296.0	1606.6	546.1	253.8	191.9
82.5°	849.1	921.1	1141.3	1497.5	2358.0	2302.2	1632.2	878.1	346.8	148.1	113.1
85°	546.8	600.6	726.5	714.4	969.6	925.8	733.3	664.6	205.4	77.4	78.8
87.5°	360.9	395.3	474.0	379.1	352.8	319.2	323.8	374.4	40.4	29.6	10.8
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°	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8	2094.8
2.5°	2071.9	2063.1	2034.2	2005.9	1979.0	1953.4	1936.5	1914.3	1899.5	1903.6	1909.6
5°	2020.0	2000.5	1949.4	1899.5	1852.3	1796.4	1751.3	1715.0	1687.4	1677.3	1675.3
7.5°	1965.5	1932.5	1859.1	1773.6	1693.5	1624.1	1544.0	1504.2	1457.8	1441.7	1436.3
10°	1932.5	1888.0	1785.0	1665.8	1545.3	1430.1	1343.3	1272.6	1208.6	1196.5	1190.5
12.5°	1923.0	1864.5	1725.7	1572.3	1412.0	1270.6	1142.0	1049.1	987.1	973.0	952.1
15°	1917.6	1845.0	1670.5	1478.0	1274.6	1102.2	966.9	858.5	801.9	764.2	764.9
17.5°	1912.9	1822.7	1608.6	1374.9	1156.1	957.5	808.0	710.3	658.5	638.3	636.3
20°	1906.2	1796.4	1537.3	1266.6	1020.8	825.5	690.1	617.5	582.5	565.6	564.9
22.5°	1903.6	1770.9	1467.2	1156.1	900.9	723.8	612.1	560.9	538.7	527.2	527.2
25°	1910.3	1752.7	1393.8	1051.1	794.5	637.0	558.2	523.2	510.4	504.3	502.3
27.5°	1931.1	1744.6	1321.1	946.0	696.9	577.7	521.9	497.6	488.2	483.4	484.1
30°	1970.9	1744.0	1249.7	842.4	624.2	532.6	492.9	476.1	468.6	466.0	465.3
32.5°	2034.9	1758.8	1179.7	756.8	562.9	494.9	466.0	453.8	450.5	448.4	447.8
35°	2143.2	1800.5	1110.4	678.7	515.8	461.3	440.4	434.3	429.6	431.6	432.3
37.5°	2289.3	1872.5	1044.4	617.5	480.1	436.3	418.8	413.4	410.8	412.7	414.8
40°	2485.3	1976.3	989.2	568.3	454.5	415.5	400.0	395.3	392.6	396.0	396.6
42.5°	2701.4	2096.1	943.4	529.9	433.6	397.9	383.1	377.7	375.8	377.7	378.4
45°	2923.6	2235.5	919.8	502.3	416.1	385.2	369.7	363.6	358.9	357.5	359.6
47.5°	3142.5	2356.7	919.1	485.5	402.0	373.7	356.9	350.2	344.1	340.7	340.1
50°	3320.9	2453.0	935.3	478.1	389.9	360.9	344.1	337.3	329.3	322.5	323.8
52.5°	3455.6	2515.6	942.7	474.7	383.1	347.4	330.6	324.6	315.2	306.4	306.4
55°	3542.4	2530.4	924.5	471.4	377.7	333.3	315.2	309.8	300.3	291.6	291.6
57.5°	3572.0	2484.6	859.2	463.2	372.4	321.2	299.7	295.0	287.5	278.7	277.4
60°	3503.4	2329.7	744.7	439.0	361.6	308.4	282.8	280.8	278.1	270.7	270.0
62.5°	3238.8	2001.2	620.1	407.4	343.4	295.0	267.3	270.7	272.7	268.6	268.0
65°	2798.4	1624.8	529.9	363.6	319.2	276.1	250.5	259.3	264.7	264.7	263.2
67.5°	2269.8	1247.7	446.4	325.9	288.8	250.5	231.6	238.3	242.4	241.1	244.5
70°	1613.3	845.0	363.6	282.8	250.5	221.5	207.4	207.4	204.7	203.3	203.3
72.5°	782.5	482.8	295.0	236.3	213.4	189.2	177.7	173.0	167.6	167.0	163.6
73°	653.8	432.9	281.5	227.6	204.7	184.5	171.7	164.3	160.9	158.2	157.5
75°	397.9	328.6	235.0	191.9	174.4	158.9	147.4	140.7	137.3	135.3	134.7
77.5°	261.9	245.1	182.4	146.8	133.3	123.9	119.2	112.4	110.4	107.7	107.7
80°	195.3	187.2	130.6	103.7	95.6	87.5	86.2	84.9	79.5	76.1	74.8
82.5°	125.9	133.3	88.9	69.4	60.6	53.9	54.6	56.5	51.2	46.4	45.1
85°	89.6	96.3	53.9	31.6	25.6	22.2	24.9	22.2	22.9	18.2	14.8
87.5°	14.8	25.6	9.4	4.1	2.0	1.3	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)