

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: P647828

Luminaire Tested: **GALN-SA3A-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647828
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-SA3A-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA 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: 10463.2 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

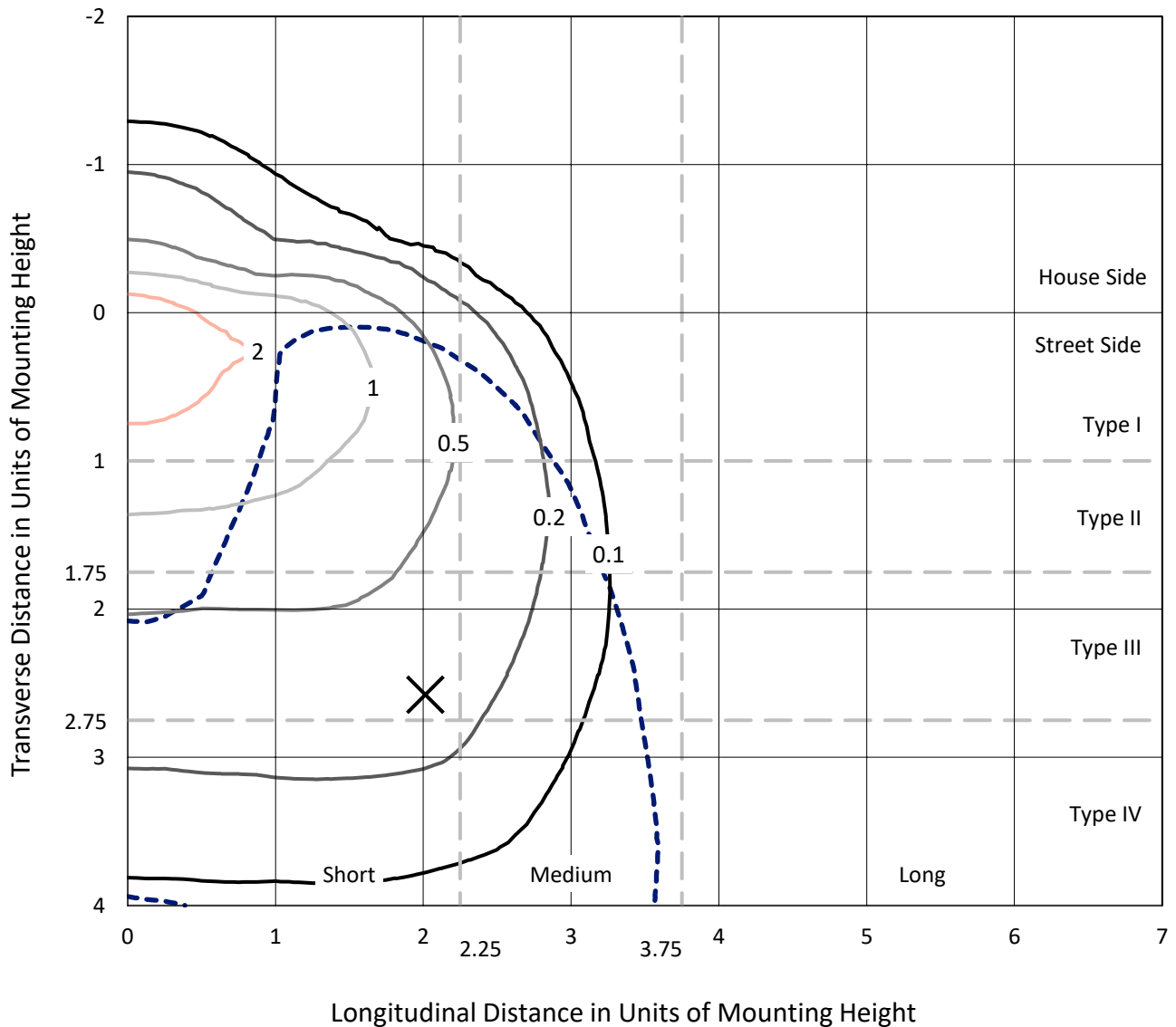
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

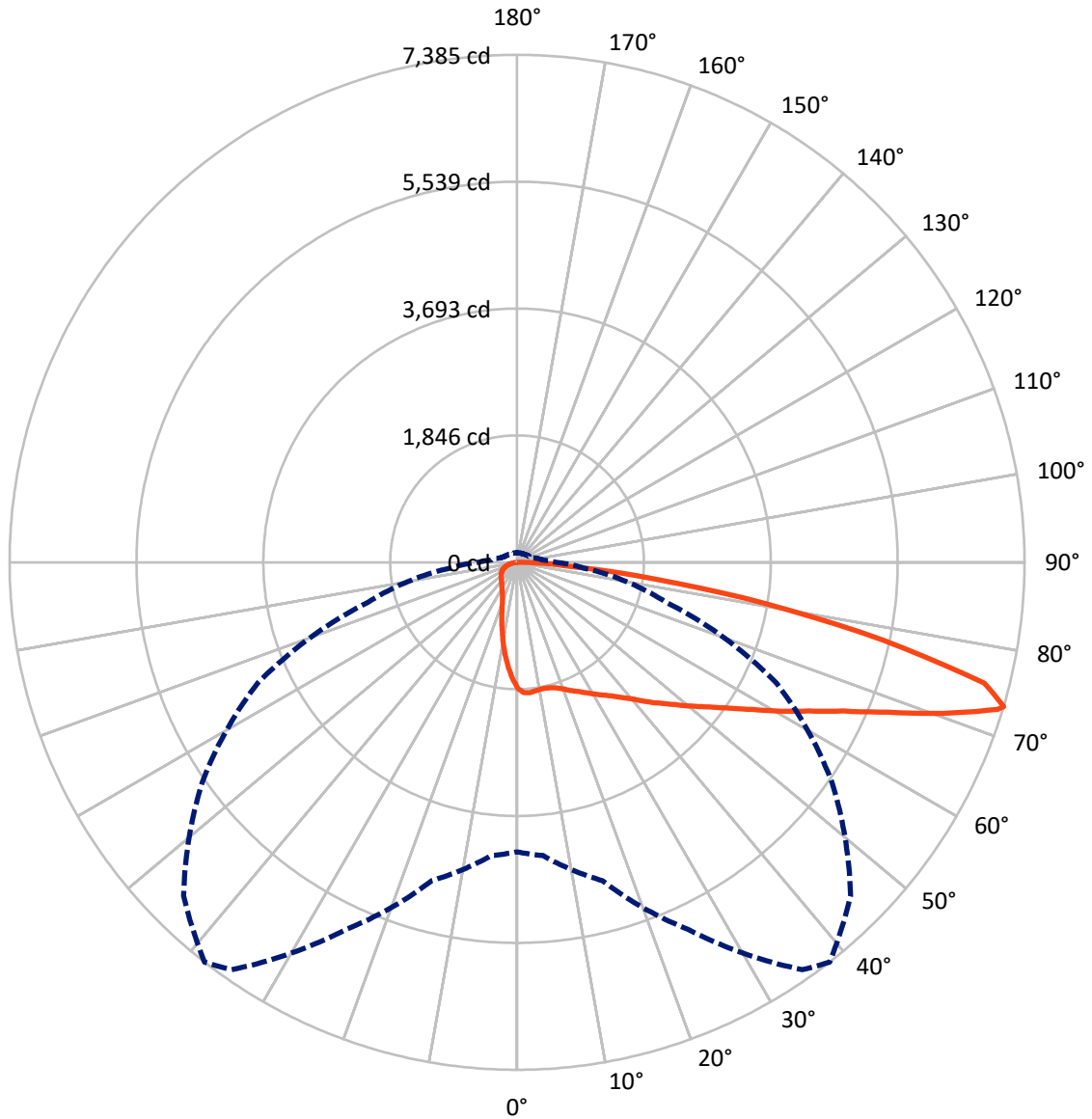
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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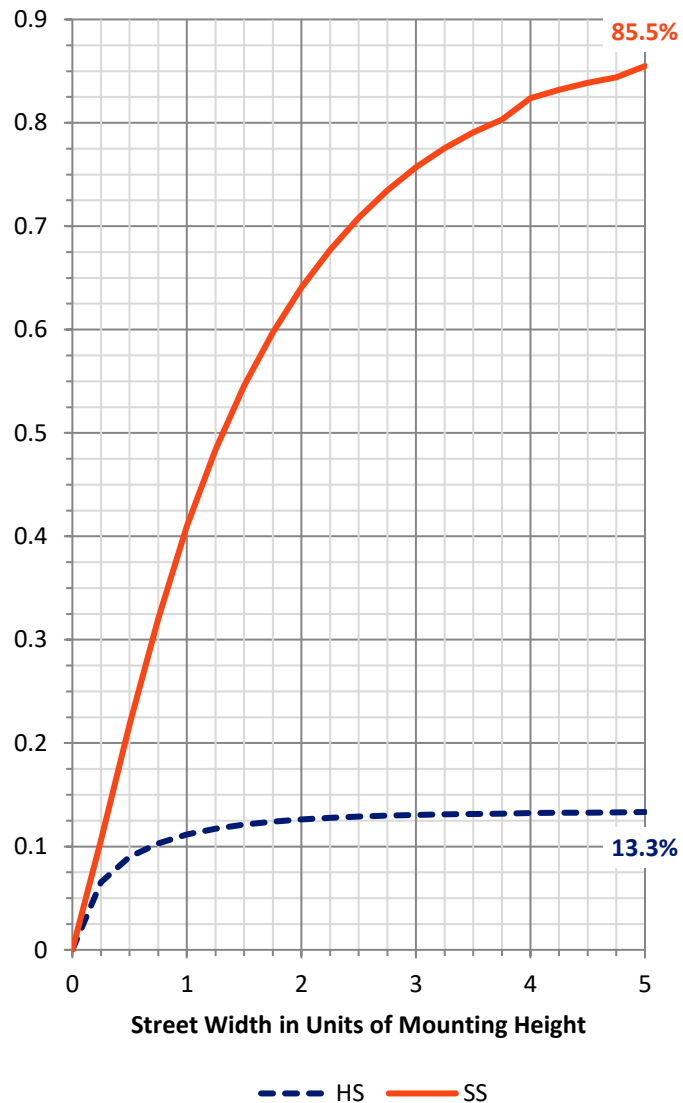
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1406.6	0.0	1406.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9056.7	0.0	9056.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	10463.2	0.0	10463.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.5
10°-20°	411.5	3.9
20°-30°	640.7	6.1
30°-40°	939.8	9.0
40°-50°	1394.1	13.3
50°-60°	1975.1	18.9
60°-70°	2505.5	23.9
70°-80°	2085.7	19.9
80°-90°	350.4	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°	10463.2	100.0
0°-180°	10463.2	100.0

Coefficient of Utilization

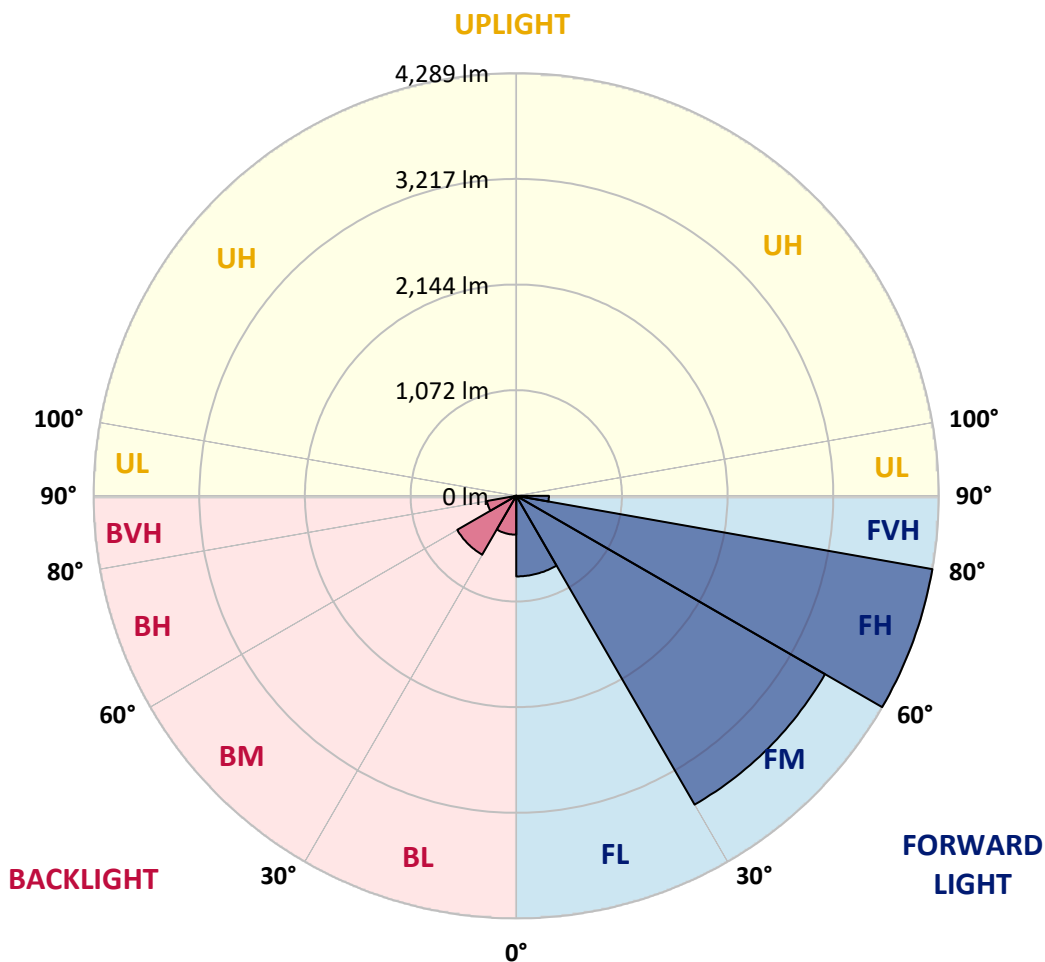


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.9	7.8			
FM (30°-60°)	3618.5	34.6			
FH (60°-80°)	4288.8	41.0			G2/5000
FVH (80°-90°)	331.4	3.2			G3/500
BL (0°-30°)	394.7	3.8	B1/500		
BM (30°-60°)	690.5	6.6	B1/1000		
BH (60°-80°)	302.3	2.9	B1/500		G1/500
BVH (80°-90°)	19.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2
2.5°	1912.1	1921.6	1916.8	1910.3	1906.1	1902.1	1896.1	1879.0	1865.4	1850.6	1827.6
5°	1926.3	1932.1	1928.1	1919.8	1910.3	1906.1	1894.9	1872.5	1850.6	1825.8	1791.5
7.5°	1918.0	1920.3	1915.6	1905.6	1897.3	1889.6	1876.6	1851.8	1825.3	1795.1	1750.2
10°	1888.4	1897.3	1897.3	1889.1	1880.8	1876.6	1863.6	1840.0	1815.8	1781.5	1728.3
12.5°	1864.2	1873.6	1881.3	1879.0	1878.4	1878.4	1868.3	1850.6	1822.3	1789.8	1726.5
15°	1847.6	1858.9	1875.4	1884.9	1890.8	1892.6	1888.4	1873.1	1844.1	1806.3	1733.6
17.5°	1844.1	1857.7	1887.8	1908.6	1923.9	1923.3	1922.1	1900.8	1868.9	1829.9	1742.5
20°	1860.1	1877.8	1919.8	1952.3	1974.7	1970.6	1964.1	1936.3	1899.1	1855.3	1750.8
22.5°	1907.9	1926.3	1972.4	2007.8	2029.7	2029.7	2010.1	1973.6	1933.9	1884.9	1762.0
25°	1976.4	1996.6	2045.6	2081.7	2091.7	2084.0	2064.5	2020.2	1974.7	1927.4	1785.6
27.5°	2060.4	2084.6	2130.1	2160.2	2157.3	2151.4	2131.2	2074.6	2029.1	1985.9	1825.8
30°	2165.0	2182.7	2230.0	2237.0	2226.4	2225.2	2196.9	2140.2	2097.6	2064.5	1883.1
32.5°	2263.7	2279.6	2317.4	2320.3	2301.5	2303.8	2277.2	2225.2	2201.0	2189.2	1979.4
35°	2368.3	2376.5	2409.0	2405.5	2393.0	2391.3	2380.6	2331.0	2338.7	2360.0	2115.9
37.5°	2455.6	2472.2	2490.6	2493.5	2492.9	2498.8	2505.9	2482.3	2526.6	2593.4	2295.0
40°	2536.1	2550.2	2577.4	2586.9	2609.9	2621.7	2645.9	2646.5	2748.7	2858.7	2515.4
42.5°	2590.4	2614.6	2665.4	2682.6	2738.7	2774.2	2810.2	2848.6	2996.9	3138.1	2775.3
45°	2637.7	2669.6	2754.0	2807.2	2883.5	2926.6	3002.8	3083.2	3296.5	3481.5	3039.4
47.5°	2709.2	2737.5	2834.5	2928.3	3043.6	3093.2	3207.2	3327.2	3606.1	3808.7	3292.4
50°	2808.5	2825.5	2924.3	3077.3	3224.4	3288.2	3438.9	3612.1	3937.0	4132.0	3514.5
52.5°	2935.5	2942.6	3021.1	3225.0	3418.8	3498.0	3697.7	3899.8	4226.6	4412.7	3690.6
55°	3085.6	3073.7	3135.2	3381.5	3641.0	3744.4	3958.8	4191.1	4552.1	4639.6	3818.8
57.5°	3233.9	3215.5	3264.6	3571.8	3915.2	4039.8	4289.7	4491.2	4842.8	4851.7	3908.7
60°	3391.0	3377.5	3436.0	3795.2	4251.4	4399.1	4630.1	4802.6	5124.0	4999.4	3922.8
62.5°	3552.3	3530.5	3613.8	4046.3	4630.1	4764.2	4988.2	5133.5	5400.0	5054.3	3786.4
65°	3708.9	3698.9	3827.7	4344.7	5061.5	5213.9	5431.4	5530.0	5621.0	4971.7	3447.8
67.5°	3875.5	3895.7	4101.3	4742.9	5624.0	5815.4	6050.0	5957.2	5684.2	4579.8	2903.5
70°	4129.6	4142.6	4460.5	5264.7	6349.0	6580.0	6693.4	6109.0	5379.3	3836.0	2182.7
72.5°	4238.9	4296.2	4781.4	5812.4	7172.6	7313.8	6909.7	5770.5	4481.2	2605.7	1146.9
73°	4214.7	4283.2	4796.1	5895.8	7237.0	7385.3	6863.6	5596.2	4165.6	2244.2	983.2
75°	3912.8	3997.3	4604.1	5826.0	7111.8	7023.1	6122.7	4769.6	2815.0	1020.4	447.9
77.5°	3087.3	3111.6	3648.1	4704.6	5600.3	5436.1	4582.3	2981.0	1149.8	379.4	254.1
80°	1548.7	1637.9	2056.2	2695.0	3744.9	3691.2	2892.3	1409.8	479.2	222.8	168.4
82.5°	745.1	808.3	1001.5	1314.1	2069.2	2020.2	1432.3	770.5	304.3	130.0	99.3
85°	479.8	527.0	637.5	626.9	850.9	812.4	643.5	583.2	180.2	68.0	69.1
87.5°	316.7	346.9	416.0	332.7	309.6	280.1	284.2	328.5	35.5	26.0	9.5
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°	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2
2.5°	1818.1	1810.5	1785.0	1760.2	1736.6	1714.1	1699.3	1679.8	1666.9	1670.4	1675.7
5°	1772.6	1755.5	1710.6	1666.9	1625.5	1576.5	1536.9	1504.9	1480.7	1471.9	1470.1
7.5°	1724.8	1695.8	1631.4	1556.4	1486.1	1425.2	1354.9	1320.0	1279.3	1265.1	1260.3
10°	1695.8	1656.8	1566.4	1461.9	1356.1	1255.0	1178.8	1116.7	1060.7	1050.0	1044.7
12.5°	1687.5	1636.2	1514.4	1379.7	1239.1	1115.0	1002.2	920.6	866.2	853.8	835.5
15°	1682.8	1619.0	1465.9	1297.0	1118.5	967.2	848.5	753.4	703.8	670.6	671.3
17.5°	1678.7	1599.5	1411.6	1206.6	1014.5	840.2	709.1	623.3	577.9	560.2	558.4
20°	1672.8	1576.5	1349.0	1111.5	895.8	724.4	605.7	541.8	511.1	496.3	495.7
22.5°	1670.4	1554.0	1287.5	1014.5	790.6	635.2	537.1	492.2	472.7	462.7	462.7
25°	1676.3	1538.0	1223.1	922.4	697.3	559.0	489.8	459.1	447.9	442.6	440.8
27.5°	1694.6	1530.9	1159.3	830.2	611.5	507.0	457.9	436.7	428.4	424.2	424.9
30°	1729.5	1530.4	1096.7	739.2	547.7	467.4	432.5	417.7	411.2	408.9	408.3
32.5°	1785.6	1543.4	1035.2	664.1	494.0	434.3	408.9	398.2	395.3	393.5	392.9
35°	1880.8	1580.0	974.4	595.6	452.6	404.7	386.4	381.1	377.0	378.7	379.4
37.5°	2008.9	1643.2	916.4	541.8	421.3	382.9	367.5	362.8	360.4	362.2	364.0
40°	2180.9	1734.2	868.0	498.7	398.9	364.6	350.9	346.9	344.4	347.4	348.0
42.5°	2370.6	1839.4	827.8	465.0	380.5	349.2	336.2	331.4	329.7	331.4	332.1
45°	2565.6	1961.7	807.1	440.8	365.2	337.9	324.4	319.1	314.9	313.7	315.5
47.5°	2757.6	2068.1	806.6	426.0	352.7	327.9	313.2	307.2	301.9	298.9	298.4
50°	2914.2	2152.5	820.7	419.5	342.1	316.7	301.9	296.1	288.9	283.1	284.2
52.5°	3032.4	2207.5	827.2	416.6	336.2	304.9	290.1	284.8	276.6	268.9	268.9
55°	3108.6	2220.5	811.3	413.6	331.4	292.5	276.6	271.8	263.6	255.9	255.9
57.5°	3134.6	2180.3	754.0	406.5	326.7	281.9	262.9	258.8	252.3	244.6	243.4
60°	3074.3	2044.4	653.5	385.2	317.3	270.6	248.1	246.4	244.1	237.6	236.9
62.5°	2842.1	1756.1	544.2	357.5	301.4	258.8	234.6	237.6	239.3	235.8	235.1
65°	2455.6	1425.8	465.0	319.1	280.1	242.3	219.8	227.5	232.2	232.2	231.1
67.5°	1991.9	1094.9	391.7	286.0	253.5	219.8	203.3	209.1	212.7	211.6	214.5
70°	1415.7	741.6	319.1	248.1	219.8	194.4	182.0	182.0	179.6	178.4	178.4
72.5°	686.6	423.7	258.8	207.4	187.3	166.1	156.0	151.8	147.1	146.5	143.6
73°	573.7	379.9	247.0	199.7	179.6	161.9	150.6	144.2	141.3	138.8	138.3
75°	349.2	288.4	206.2	168.4	153.0	139.5	129.4	123.5	120.5	118.8	118.2
77.5°	229.9	215.1	160.1	128.8	117.0	108.8	104.6	98.7	96.9	94.5	94.5
80°	171.3	164.3	114.6	91.0	83.9	76.8	75.6	74.5	69.7	66.8	65.6
82.5°	110.5	117.0	78.0	60.8	53.2	47.3	47.8	49.6	44.9	40.8	39.6
85°	78.6	84.5	47.3	27.8	22.5	19.5	21.8	19.5	20.1	16.0	13.0
87.5°	13.0	22.5	8.3	3.5	1.8	1.2	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)