

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: P646913

Luminaire Tested: **GALN-SA4C-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15988.1 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

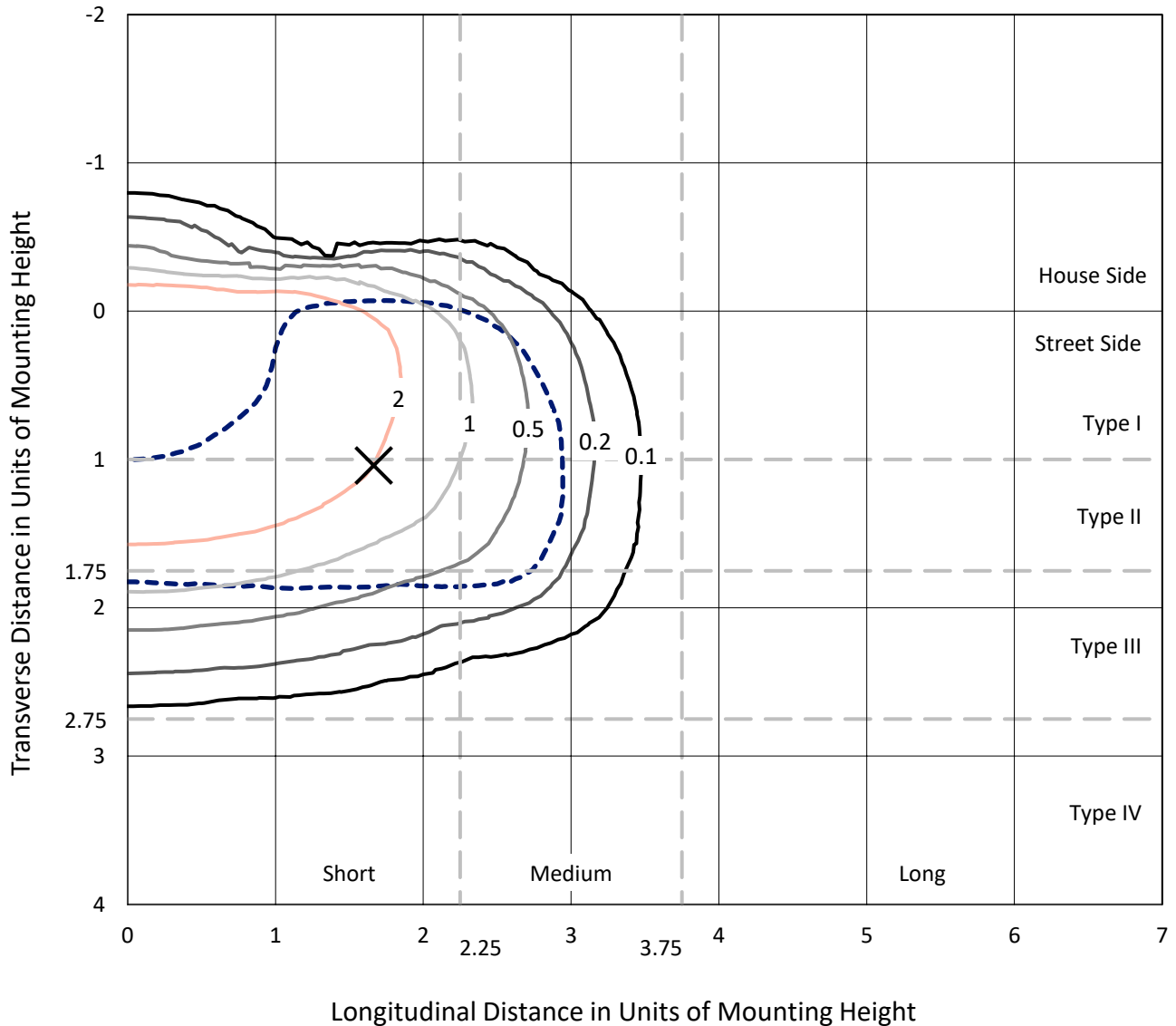
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

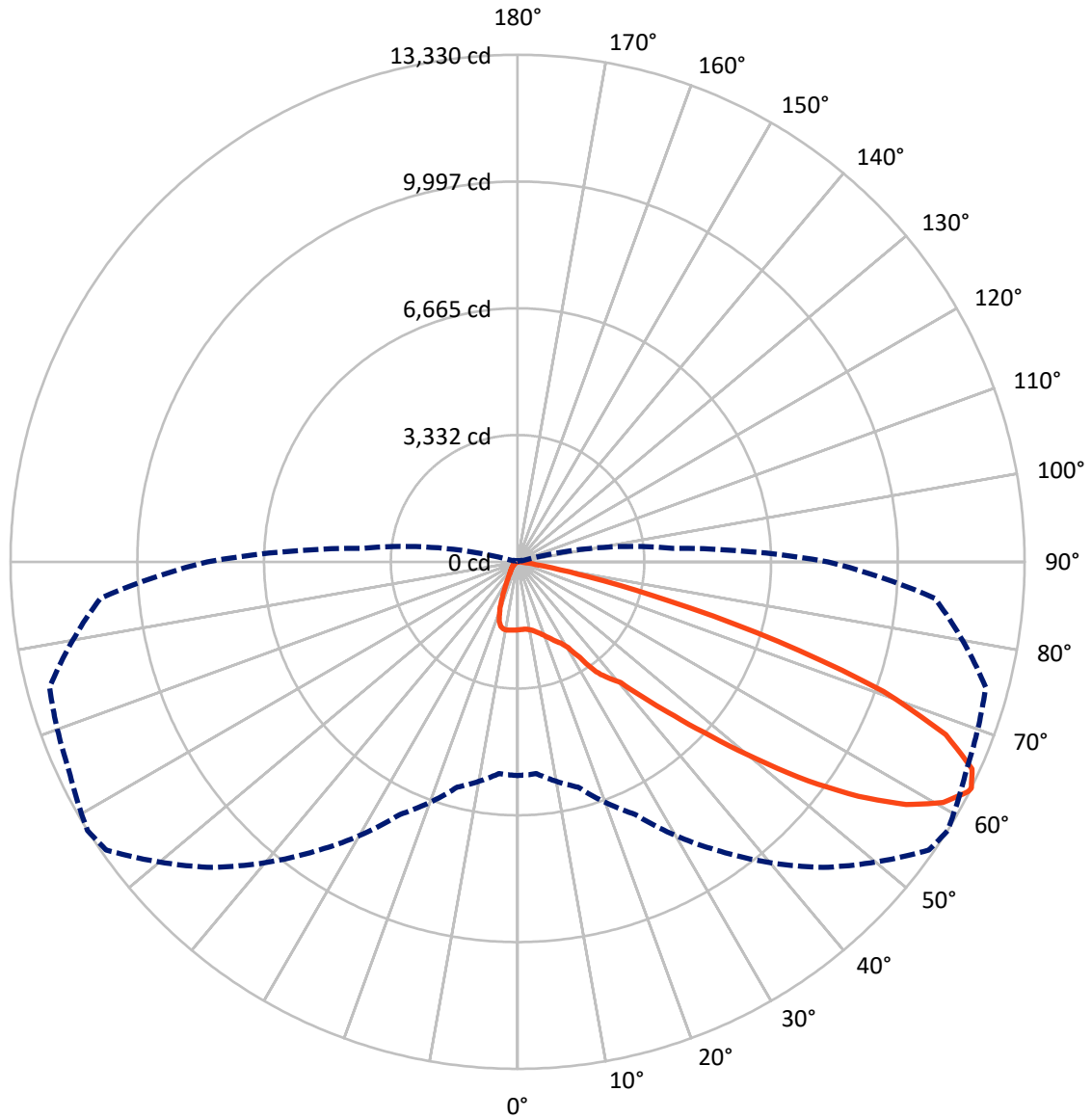
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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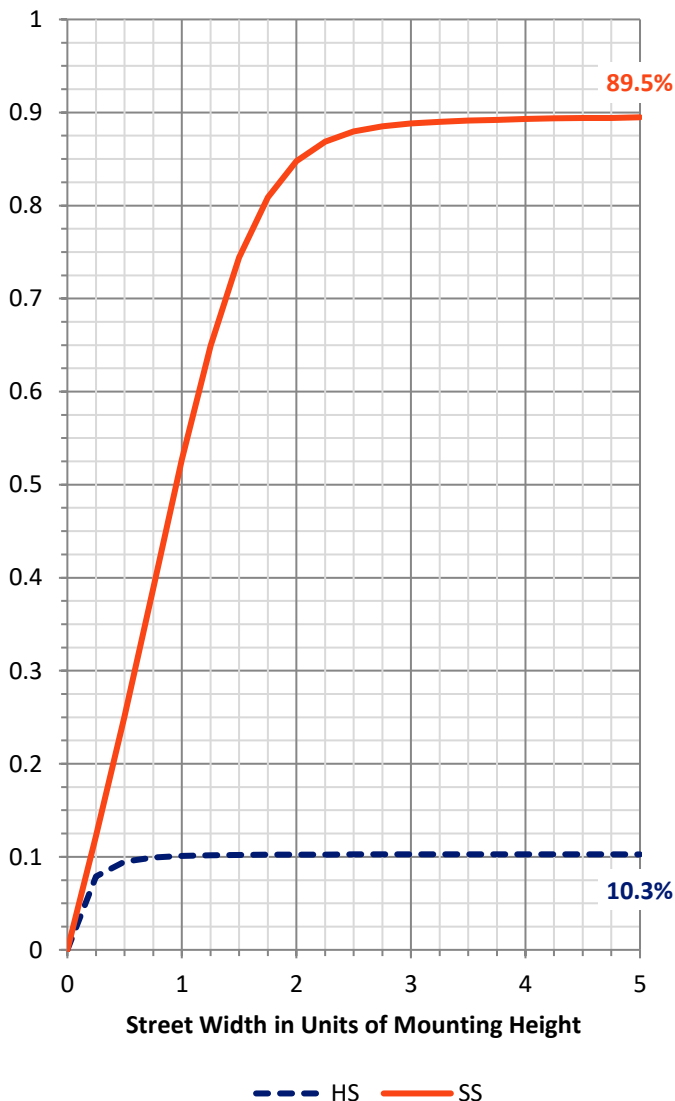
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.5	0.0	1655.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14332.6	0.0	14332.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	15988.1	0.0	15988.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	1.0
10°-20°	456.4	2.9
20°-30°	792.1	5.0
30°-40°	1455.5	9.1
40°-50°	2740.0	17.1
50°-60°	4686.5	29.3
60°-70°	4487.3	28.1
70°-80°	1144.3	7.2
80°-90°	58.5	0.4
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°	15988.1	100.0
0°-180°	15988.1	100.0

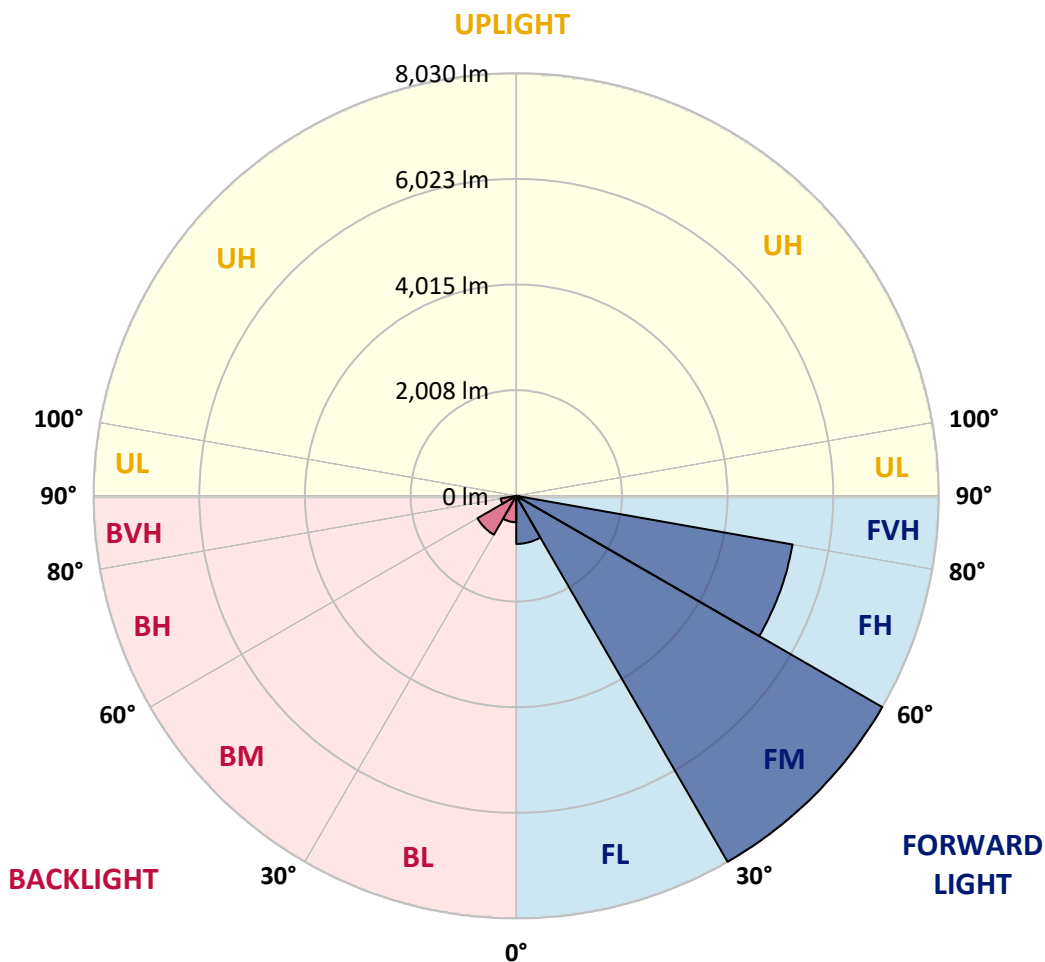


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.9	5.7			
FM (30°-60°)	8030.5	50.2			
FH (60°-80°)	5331.9	33.3			G3/7500
FVH (80°-90°)	56.2	0.4			G1/100
BL (0°-30°)	502.1	3.1	B2/1000		
BM (30°-60°)	851.5	5.3	B1/1000		
BH (60°-80°)	299.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9
2.5°	1745.4	1751.4	1757.4	1759.9	1768.2	1776.7	1782.7	1781.5	1791.1	1796.0	1796.0
5°	1675.5	1675.5	1691.2	1705.7	1729.7	1753.8	1776.7	1781.5	1799.6	1816.4	1822.4
7.5°	1616.6	1620.2	1632.2	1658.7	1691.2	1733.3	1779.1	1789.9	1821.3	1858.5	1874.2
10°	1588.9	1591.3	1607.0	1634.7	1675.5	1733.3	1797.1	1817.6	1865.7	1924.8	1946.4
12.5°	1582.9	1586.5	1602.2	1633.4	1680.4	1750.2	1836.8	1858.5	1928.4	2004.2	2036.7
15°	1593.7	1596.1	1611.8	1645.5	1697.2	1780.3	1889.8	1919.9	2003.0	2090.8	2133.0
17.5°	1632.2	1629.8	1640.7	1668.3	1726.1	1817.6	1953.7	1989.8	2087.2	2207.6	2235.3
20°	1796.0	1780.3	1770.7	1746.6	1769.5	1870.6	2030.6	2083.6	2204.0	2326.8	2346.0
22.5°	2148.6	2113.7	2045.1	1951.2	1879.0	1942.8	2123.3	2184.7	2340.0	2460.4	2460.4
25°	2597.6	2553.0	2484.5	2279.9	2102.9	2062.0	2228.1	2305.2	2488.1	2609.7	2570.0
27.5°	3159.7	3124.9	2991.2	2752.9	2482.0	2270.2	2349.6	2420.6	2619.3	2766.1	2683.1
30°	3617.1	3600.3	3490.8	3277.7	2979.2	2669.9	2576.0	2622.9	2793.8	2963.6	2878.1
32.5°	4003.6	4003.6	3891.6	3693.0	3413.7	3139.3	2960.0	2993.6	3157.4	3353.6	3194.6
35°	4428.5	4414.0	4323.7	4134.8	3821.8	3579.9	3506.4	3552.2	3700.2	3845.9	3454.7
37.5°	4875.0	4870.3	4776.4	4593.4	4338.2	4033.6	3861.5	3873.6	3949.4	4038.5	3759.2
40°	5360.2	5367.4	5244.6	5131.5	4890.7	4578.9	4249.1	4173.3	4244.3	4495.9	4321.4
42.5°	5933.1	5916.3	5863.3	5709.2	5515.5	5328.9	4932.8	4905.2	4967.7	5237.4	5048.4
45°	6598.8	6622.8	6531.4	6445.9	6315.9	6160.6	5829.6	5781.4	5850.0	6268.9	6000.5
47.5°	7265.6	7242.8	7301.7	7286.1	7355.9	7240.3	6947.9	6849.1	7014.0	7411.3	7016.5
50°	7773.6	7798.9	7921.7	8101.0	8400.7	8465.7	8185.2	8151.6	8225.0	8480.2	7925.3
52.5°	8103.4	8187.7	8380.3	8841.3	9381.7	9801.8	9588.8	9570.8	9540.7	9609.3	8794.3
55°	8318.9	8404.3	8655.9	9334.8	10265.3	10947.8	10958.6	10881.6	10683.0	10633.6	9606.9
57.5°	8186.5	8203.3	8562.0	9469.6	10755.2	11765.1	12119.0	12042.0	11674.8	11488.3	10324.2
60°	7358.3	7393.2	7892.8	8959.2	10542.2	12032.4	12888.2	12853.3	12451.3	12240.6	10882.8
62.5°	5891.0	5992.1	6506.1	7695.3	9551.5	11582.1	13200.0	13298.6	12985.7	12695.6	11058.5
63°	5621.4	5588.8	6131.8	7327.0	9289.1	11359.5	13204.7	13329.9	13009.8	12738.9	11010.4
65°	4161.3	4258.7	4611.5	5777.8	7730.2	10323.1	12907.4	13129.0	12920.7	12547.6	10477.2
67.5°	2336.4	2331.6	2721.6	3780.9	5410.7	8097.4	11671.2	12139.5	12096.2	11259.5	8684.8
70°	1143.5	1161.6	1321.7	1959.6	3138.1	5586.5	9698.3	10203.9	10219.6	8843.7	6005.4
72.5°	517.6	526.0	640.4	954.6	1613.0	2974.4	6683.1	7165.7	7076.7	5635.8	3316.2
75°	273.3	291.3	352.7	480.3	777.6	1226.6	3635.2	4102.3	3915.7	2574.7	1220.5
77.5°	202.2	208.3	239.5	305.8	416.5	477.9	1568.4	1865.7	1747.8	931.7	404.4
80°	148.1	152.8	178.1	216.7	262.4	243.1	591.0	677.7	607.8	316.6	123.9
82.5°	90.3	91.5	130.0	161.3	164.9	136.0	195.0	209.5	219.1	178.1	67.4
85°	32.5	41.0	87.9	116.7	97.5	68.6	81.8	90.3	98.7	113.1	39.7
87.5°	3.6	4.8	42.1	56.6	27.7	25.3	30.1	33.7	36.1	42.1	19.3
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°	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9
2.5°	1800.7	1805.6	1802.0	1796.0	1794.7	1791.1	1783.9	1783.9	1783.9	1786.3	1783.9
5°	1827.2	1830.9	1822.4	1810.4	1797.1	1780.3	1762.2	1751.4	1750.2	1747.8	1741.8
7.5°	1877.8	1882.6	1863.4	1834.5	1798.3	1757.4	1718.9	1682.8	1665.9	1652.7	1652.7
10°	1951.2	1956.0	1917.5	1865.7	1793.5	1710.5	1619.0	1535.9	1470.9	1440.9	1433.6
12.5°	2039.1	2041.5	1977.7	1887.4	1768.2	1608.2	1413.2	1231.4	1105.0	1047.3	1041.2
15°	2135.4	2118.6	2034.3	1895.9	1696.1	1397.5	1060.5	837.8	706.6	668.1	682.5
17.5°	2232.9	2201.6	2077.6	1882.6	1533.5	1060.5	712.6	571.7	530.9	520.0	520.0
20°	2324.4	2281.0	2108.9	1824.9	1251.9	730.6	528.4	494.7	487.5	480.3	481.5
22.5°	2415.9	2349.6	2136.6	1696.1	932.9	522.4	473.1	462.2	452.6	442.9	441.8
25°	2505.0	2413.4	2147.5	1457.7	635.6	449.0	432.1	417.7	398.5	387.6	385.2
27.5°	2597.6	2490.5	2140.2	1156.8	463.5	402.1	385.2	364.7	341.9	322.6	322.6
30°	2775.7	2637.4	2115.0	831.8	390.0	353.9	332.2	299.7	274.4	255.2	254.0
32.5°	3018.9	2828.7	2028.3	585.0	346.6	311.8	279.3	243.1	216.7	202.2	202.2
35°	3235.6	3021.4	1865.7	431.0	311.8	270.8	231.1	196.2	175.7	166.1	162.5
37.5°	3565.4	3303.0	1641.9	350.3	278.0	234.7	193.8	161.3	144.5	137.3	137.3
40°	4060.2	3647.3	1367.4	306.9	245.5	199.8	161.3	136.0	122.8	114.3	114.3
42.5°	4674.0	4068.5	1089.4	275.6	215.5	172.1	134.8	115.6	103.5	97.5	96.3
45°	5446.8	4512.7	839.0	246.7	191.4	146.9	114.3	97.5	85.4	81.8	83.1
47.5°	6253.3	4903.9	650.0	221.5	166.1	123.9	97.5	84.3	75.9	71.0	71.0
50°	6941.8	5173.6	493.5	192.6	146.9	104.7	85.4	75.9	68.6	66.2	65.0
52.5°	7517.2	5251.8	378.0	167.3	128.8	90.3	75.9	68.6	62.6	59.0	59.0
55°	8007.1	5183.2	296.1	140.9	108.4	78.2	67.4	61.4	54.2	50.6	49.3
57.5°	8293.6	4962.9	226.3	116.7	87.9	65.0	59.0	51.8	43.3	37.3	37.3
60°	8438.1	4642.7	173.4	96.3	67.4	51.8	48.2	38.5	30.1	25.3	24.0
62.5°	8264.7	4217.8	131.2	75.9	50.6	38.5	32.5	27.7	19.3	14.4	14.4
63°	8157.6	4095.0	126.4	72.2	47.0	36.1	30.1	25.3	16.8	13.2	12.1
65°	7436.5	3559.4	103.5	57.8	37.3	25.3	20.4	18.1	12.1	6.0	4.8
67.5°	5905.5	2722.8	81.8	43.3	26.5	18.1	12.1	10.8	3.6	0.0	0.0
70°	3992.8	1758.6	63.8	31.3	18.1	10.8	6.0	4.8	1.2	0.0	0.0
72.5°	2082.5	901.5	49.3	22.9	10.8	7.2	3.6	1.2	0.0	0.0	0.0
75°	736.6	306.9	36.1	14.4	7.2	3.6	1.2	0.0	0.0	0.0	0.0
77.5°	222.7	114.3	22.9	10.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0
80°	78.2	42.1	13.2	7.2	3.6	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	38.5	20.4	8.5	6.0	3.6	1.2	0.0	0.0	0.0	0.0	0.0
85°	21.7	13.2	7.2	6.0	3.6	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	9.6	7.2	6.0	4.8	2.4	1.2	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)