

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: P648076

Luminaire Tested: **GALN-SA7A-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18041.9 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

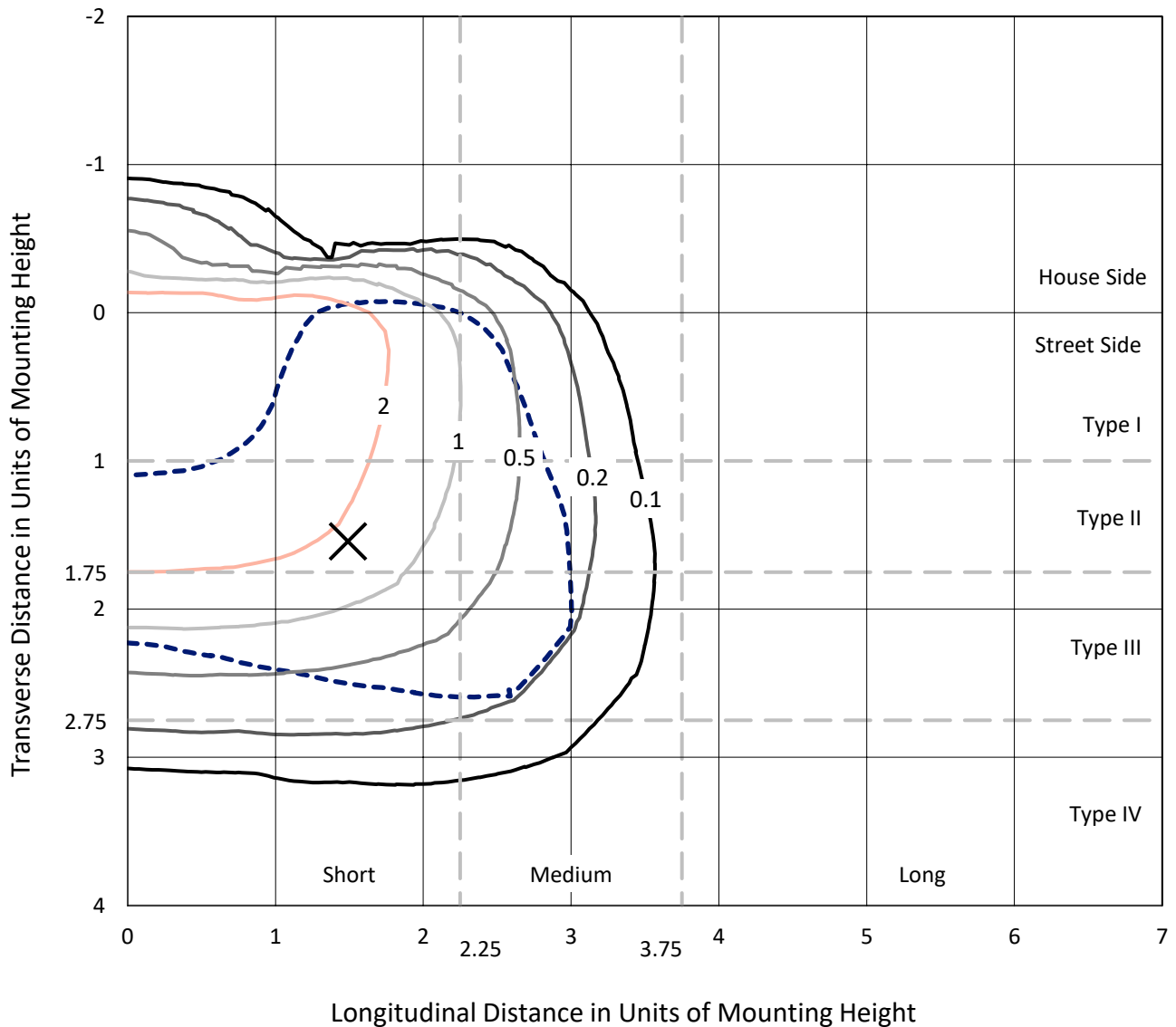
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

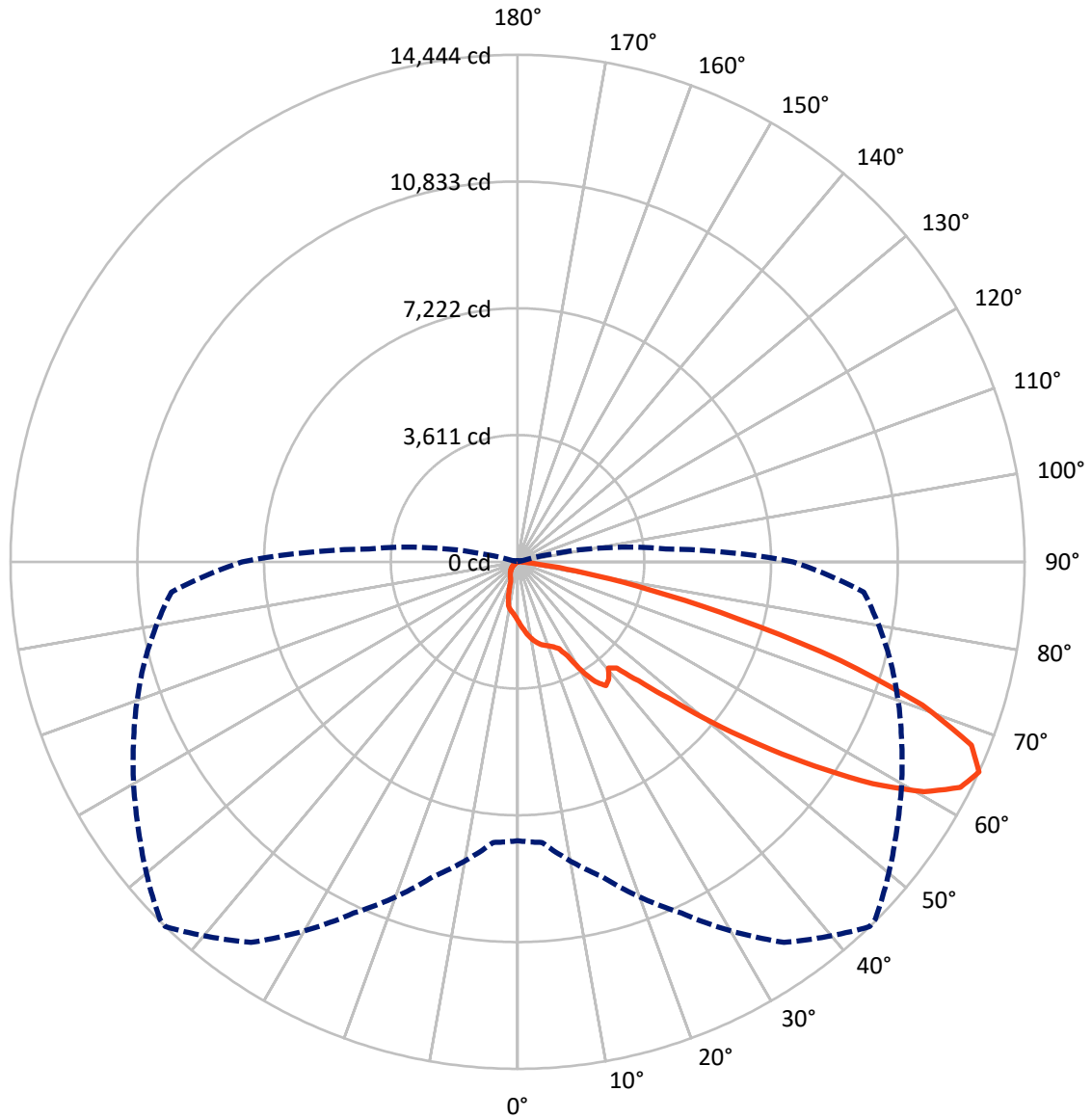
✕ Max cd
 - - - 1/2 Max cd



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 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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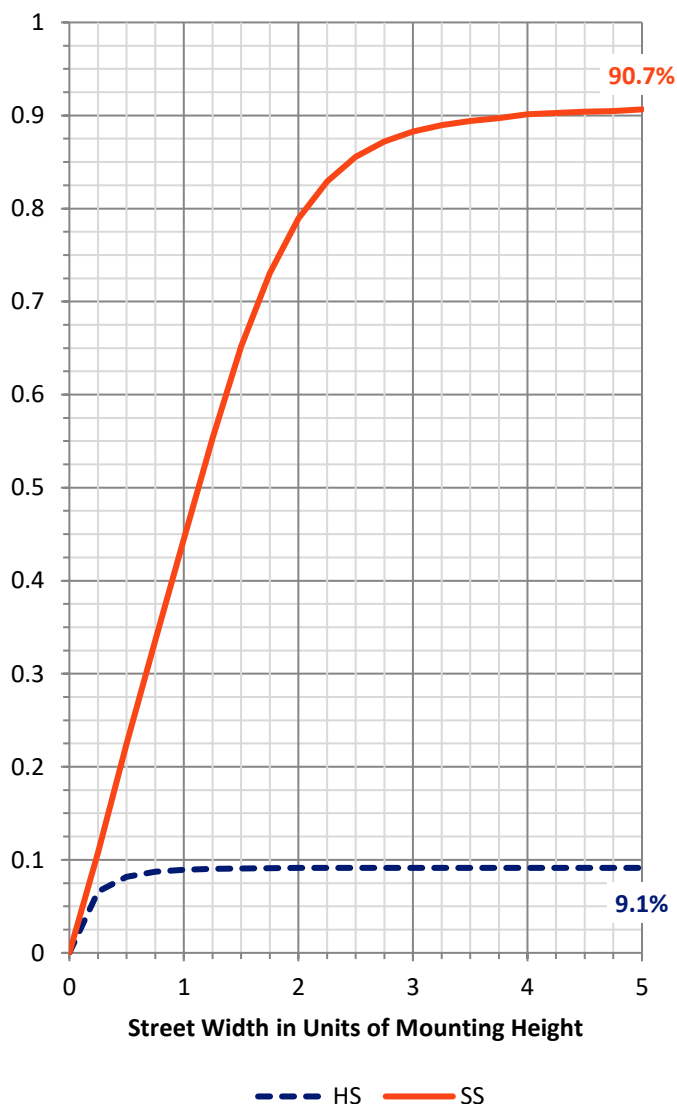
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1662.3	0.0	1662.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	16379.6	0.0	16379.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	18041.9	0.0	18041.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	0.9
10°-20°	502.6	2.8
20°-30°	852.3	4.7
30°-40°	1417.1	7.9
40°-50°	2474.3	13.7
50°-60°	4833.9	26.8
60°-70°	5608.4	31.1
70°-80°	2042.3	11.3
80°-90°	143.9	0.8
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°	18041.9	100.0
0°-180°	18041.9	100.0

Coefficient of Utilization



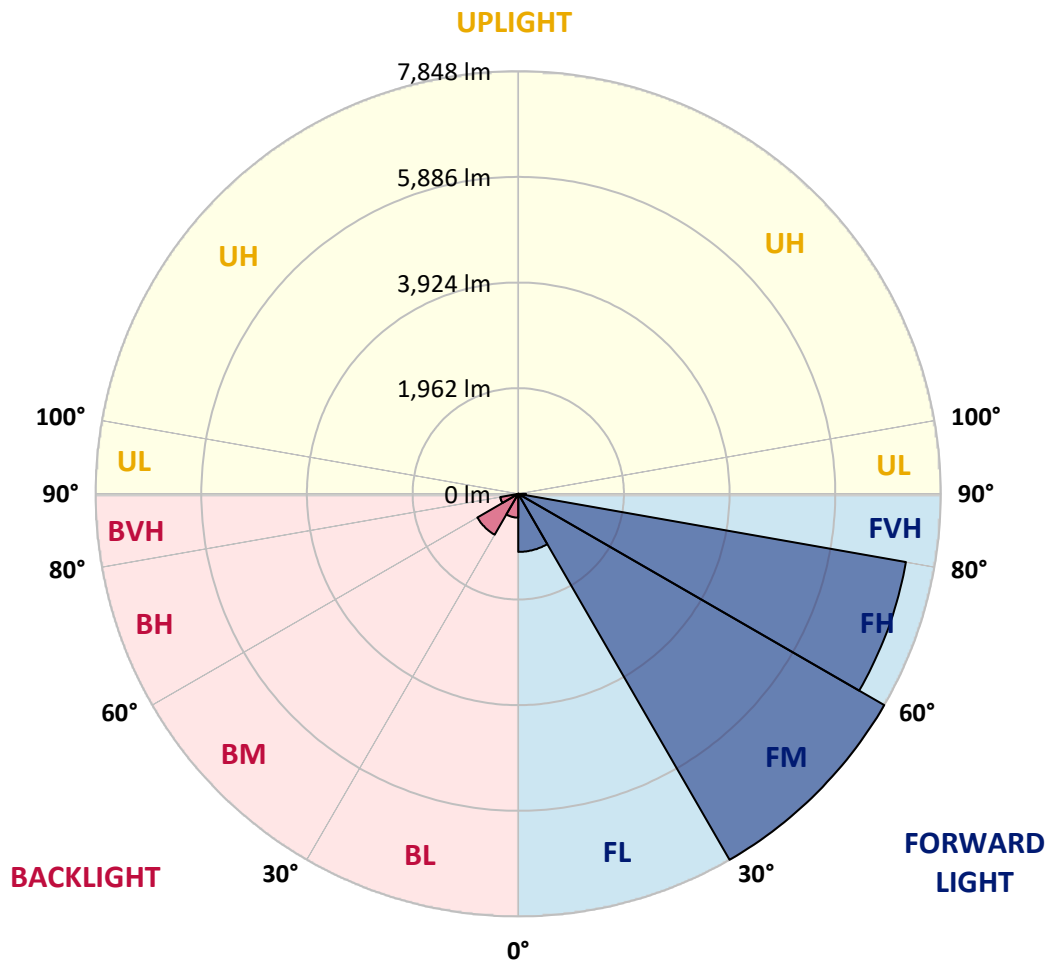
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.1	6.0			
FM (30°-60°)	7848.2	43.5			
FH (60°-80°)	7310.3	40.5			G3/7500
FVH (80°-90°)	141.9	0.8			G2/225
BL (0°-30°)	442.9	2.5	B1/500		
BM (30°-60°)	877.0	4.9	B1/1000		
BH (60°-80°)	340.4	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1
2.5°	1890.1	1881.8	1877.7	1855.6	1839.1	1818.4	1818.4	1792.2	1761.9	1728.8	1698.5
5°	2101.0	2087.2	2069.3	2050.0	2011.4	1956.2	1956.2	1901.1	1837.7	1781.2	1719.2
7.5°	2303.7	2291.3	2260.9	2223.7	2160.3	2102.4	2098.3	2018.3	1942.5	1857.0	1768.8
10°	2481.5	2471.9	2445.7	2374.0	2307.8	2232.0	2230.6	2141.0	2052.8	1948.0	1839.1
12.5°	2605.6	2607.0	2572.5	2503.6	2418.1	2346.4	2340.9	2252.7	2160.3	2047.2	1913.5
15°	2693.8	2693.8	2658.0	2580.8	2503.6	2440.1	2434.7	2357.5	2262.3	2139.6	1994.8
17.5°	2718.7	2726.9	2688.3	2619.4	2557.4	2502.2	2500.8	2436.0	2360.2	2241.7	2077.6
20°	2709.0	2717.2	2686.9	2633.2	2590.4	2558.7	2554.6	2528.4	2458.1	2346.4	2165.8
22.5°	2688.3	2696.6	2674.5	2642.8	2622.1	2631.8	2624.9	2646.9	2609.7	2474.6	2270.6
25°	2692.4	2700.7	2684.2	2666.3	2684.2	2743.5	2761.4	2856.5	2823.4	2637.3	2383.6
27.5°	2822.0	2838.6	2815.1	2823.4	2886.8	3024.7	3059.2	3223.2	3077.1	2844.1	2560.1
30°	3110.2	3099.1	3055.0	3095.0	3315.6	3607.8	3598.2	3572.0	3343.2	3082.6	2769.6
32.5°	3372.1	3362.4	3359.7	3532.0	3931.8	4073.8	4066.9	3813.3	3581.7	3355.5	2976.4
35°	3478.2	3441.1	3432.8	3850.5	4519.1	4331.6	4288.9	3912.5	3871.2	3653.3	3187.4
37.5°	3798.1	3771.9	3643.7	3902.9	4284.7	4222.7	4189.6	4083.5	4180.0	3916.6	3425.9
40°	4457.1	4384.0	4268.2	4014.5	3952.5	3978.7	4011.8	4302.7	4545.3	4276.5	3744.3
42.5°	5276.0	5259.4	5044.4	4571.5	4106.9	4142.8	4185.5	4760.4	5070.6	4818.3	4264.1
45°	6258.9	6282.4	5972.2	5413.8	4804.5	4834.8	4896.9	5435.9	5781.9	5660.6	5081.6
47.5°	7152.3	7134.4	7029.6	6449.2	5886.8	5819.2	5919.8	6303.1	6766.3	6785.6	6096.3
50°	8051.1	8146.3	7990.5	7763.1	7345.3	7203.3	7166.1	7353.5	8059.4	7967.0	7314.9
52.5°	9342.9	9392.6	9100.3	9042.4	9137.5	8677.0	8639.9	8685.3	9316.8	8999.6	8227.6
55°	10155.0	10126.0	10017.1	10469.3	10845.6	10270.8	10223.9	10040.5	10360.3	9728.9	9105.8
57.5°	10411.3	10452.7	10706.4	11523.9	12414.5	11926.4	11841.0	11319.8	11113.0	10408.6	9913.6
60°	10296.9	10372.7	10920.0	12136.0	13371.3	13298.2	13225.1	12349.7	11653.5	10976.6	10480.3
62.5°	9482.1	9588.3	10463.8	12027.1	13695.2	14151.6	14060.6	12992.2	12013.3	11252.3	10579.6
65°	7946.4	8025.0	9282.2	11038.7	13234.7	14443.8	14410.7	13193.4	12069.9	11000.1	9899.9
67.5°	5664.8	5932.2	7097.1	9303.0	11872.7	13944.8	14001.3	12952.2	11539.1	9909.6	8198.6
70°	3561.0	3743.0	4578.4	6660.1	9518.0	12233.9	12420.0	11847.9	10014.3	7724.5	5488.3
72.5°	1698.5	1833.6	2429.1	4215.8	6718.1	9625.6	9773.0	9726.2	7743.7	4866.5	2831.7
75°	756.8	807.9	1159.4	2152.0	4337.1	6469.9	6851.7	6915.1	4838.9	2380.9	1101.5
77.5°	386.0	387.4	543.2	1042.3	2165.8	3860.1	3936.0	4157.9	2623.5	1049.1	383.3
80°	205.4	219.2	288.1	492.2	1123.6	1901.1	1891.5	2078.9	1163.5	514.2	128.2
82.5°	92.4	102.0	162.7	257.8	548.7	721.0	777.5	850.6	499.1	328.1	56.5
85°	27.6	33.1	79.9	129.6	198.5	208.2	233.0	300.5	282.6	233.0	29.0
87.5°	4.1	4.1	33.1	35.9	29.0	37.2	38.6	42.8	91.0	85.5	15.2
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°	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1	1679.1
2.5°	1681.9	1672.3	1637.8	1608.8	1584.0	1568.9	1551.0	1539.9	1534.4	1530.3	1531.6
5°	1688.8	1665.4	1606.1	1559.2	1523.4	1484.8	1458.6	1443.4	1436.5	1425.5	1425.5
7.5°	1727.4	1690.2	1607.5	1535.8	1473.8	1421.4	1371.7	1353.8	1341.4	1338.6	1335.9
10°	1782.6	1735.7	1622.6	1523.4	1435.2	1363.4	1293.1	1231.1	1182.9	1153.9	1149.8
12.5°	1851.5	1783.9	1646.1	1515.1	1402.0	1275.2	1089.1	963.6	879.5	853.4	857.5
15°	1914.9	1841.9	1669.5	1508.2	1341.4	1057.4	846.5	703.1	660.4	656.2	657.6
17.5°	1990.7	1903.9	1697.1	1498.6	1174.6	807.9	628.7	590.1	598.3	612.1	610.7
20°	2069.3	1970.0	1730.2	1440.6	937.5	608.0	555.6	559.7	572.1	584.5	587.3
22.5°	2153.4	2045.9	1768.8	1301.4	715.5	529.4	526.6	532.1	544.6	558.4	561.1
25°	2269.2	2141.0	1797.7	1119.5	541.8	489.4	494.9	504.6	515.6	530.8	533.5
27.5°	2418.1	2269.2	1812.9	882.3	468.7	453.6	454.9	468.7	482.5	496.3	496.3
30°	2611.1	2422.2	1782.6	667.3	432.9	419.1	413.6	421.9	439.8	453.6	454.9
32.5°	2783.4	2567.0	1702.6	510.1	406.7	387.4	373.6	375.0	381.9	390.2	391.5
35°	2955.7	2707.6	1566.1	428.8	379.1	357.0	336.4	325.3	319.9	315.7	319.9
37.5°	3176.3	2882.7	1384.1	390.2	355.7	328.1	299.2	275.7	256.4	244.0	246.8
40°	3460.3	3125.3	1169.1	365.3	333.6	300.5	261.9	231.6	198.5	187.5	182.0
42.5°	3929.1	3493.4	943.0	344.7	311.6	271.6	223.3	182.0	151.7	140.6	143.4
45°	4669.4	3958.0	726.5	322.6	289.5	239.9	187.5	143.4	118.5	113.1	115.8
47.5°	5651.0	4559.1	559.7	297.8	261.9	205.4	147.5	113.1	97.9	96.5	95.1
50°	6574.6	5118.8	467.4	270.2	228.9	170.9	121.3	95.1	85.5	84.1	84.1
52.5°	7410.1	5520.0	380.5	238.5	193.0	140.6	102.0	84.1	75.8	71.7	71.7
55°	8153.1	5781.9	308.8	199.9	151.7	111.7	88.2	75.8	66.2	60.7	59.3
57.5°	8714.2	5813.6	231.6	159.9	113.1	86.8	75.8	66.2	55.1	48.2	45.5
60°	8954.2	5539.3	170.9	121.3	84.1	68.9	60.7	53.8	41.3	34.5	33.1
62.5°	8712.9	5005.8	126.8	92.4	64.8	51.0	42.8	40.0	29.0	20.7	19.3
65°	7848.5	4235.1	100.6	70.3	48.2	37.2	27.6	26.2	17.9	9.6	8.3
67.5°	6287.9	3316.9	79.9	52.4	34.5	24.8	17.9	16.5	9.6	2.7	2.7
70°	4089.0	2120.3	64.8	38.6	22.1	16.5	11.0	8.3	5.5	1.4	0.0
72.5°	2022.4	991.2	52.4	30.3	15.2	8.3	4.1	2.7	4.1	0.0	0.0
75°	784.4	352.9	38.6	20.7	8.3	4.1	2.7	0.0	1.4	0.0	0.0
77.5°	260.6	117.2	23.4	11.0	5.5	2.7	0.0	0.0	0.0	0.0	0.0
80°	96.5	45.5	12.4	6.9	2.7	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	38.6	17.9	8.3	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.3	11.0	5.5	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.8	8.3	5.5	4.1	2.7	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)