

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: P530451

Luminaire Tested: **GALN-SA5C-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18504 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 269
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

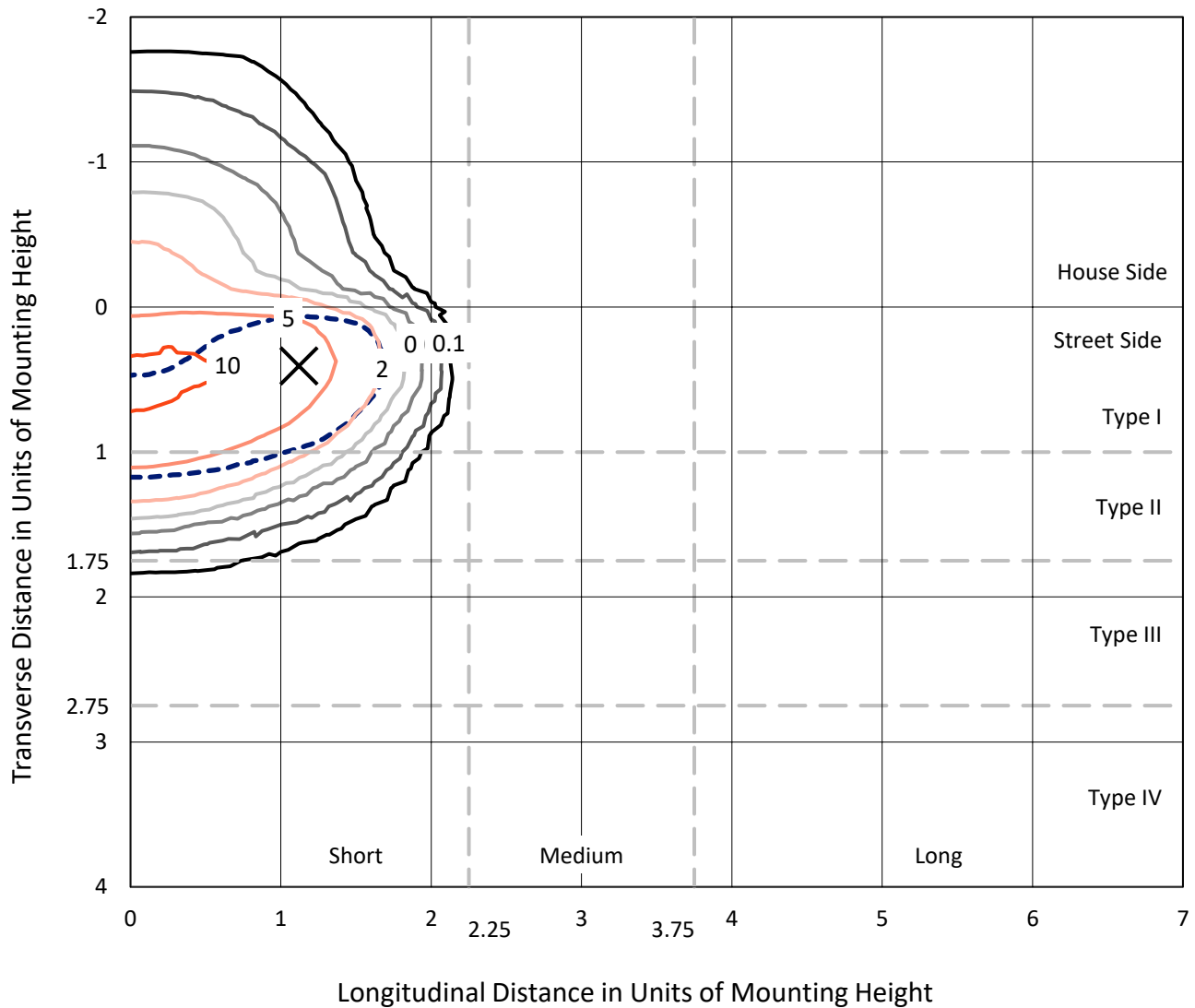


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

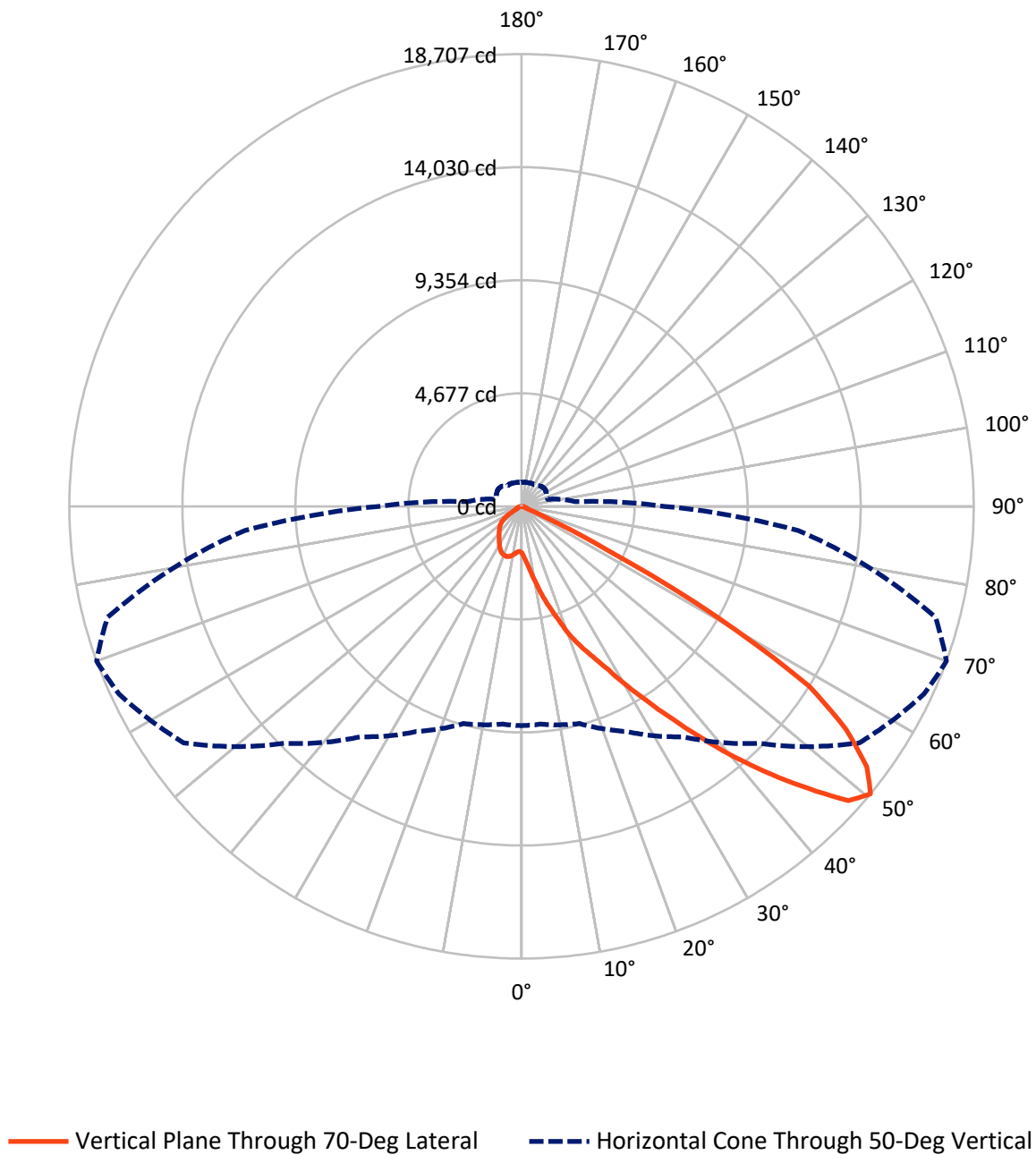


Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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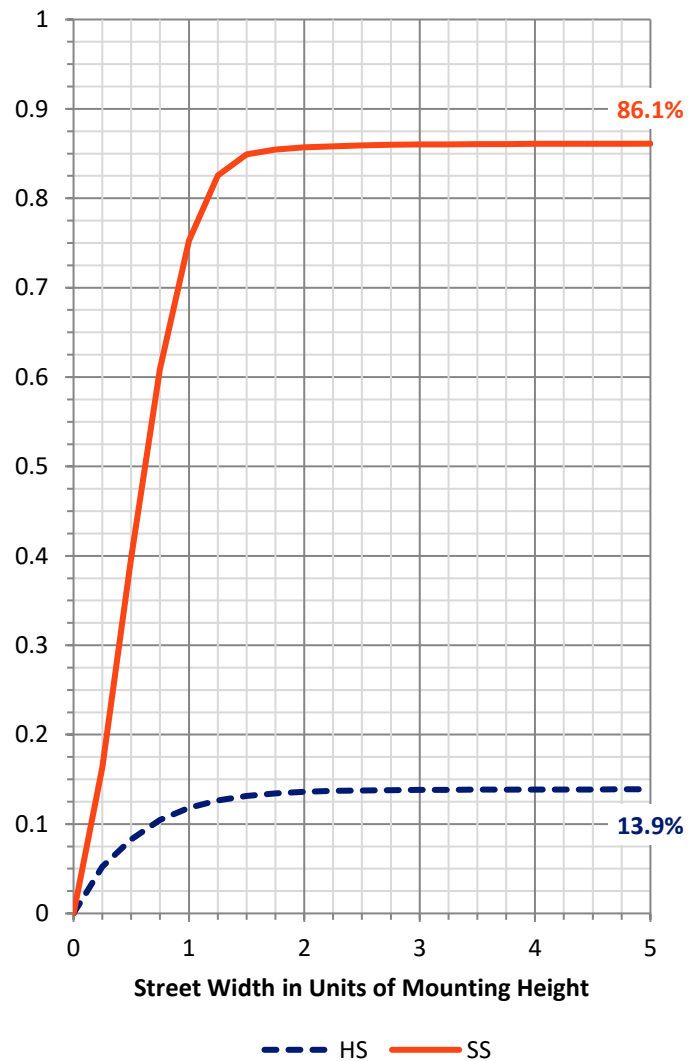
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2584.2	0.0	2584.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15919.8	0.0	15919.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	18504.0	0.0	18504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	1.3
10°-20°	1078.1	5.8
20°-30°	2261.7	12.2
30°-40°	3898.4	21.1
40°-50°	5697.4	30.8
50°-60°	4437.4	24.0
60°-70°	751.8	4.1
70°-80°	103.3	0.6
80°-90°	26.8	0.1
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°	18504.0	100.0
0°-180°	18504.0	100.0

Coefficient of Utilization



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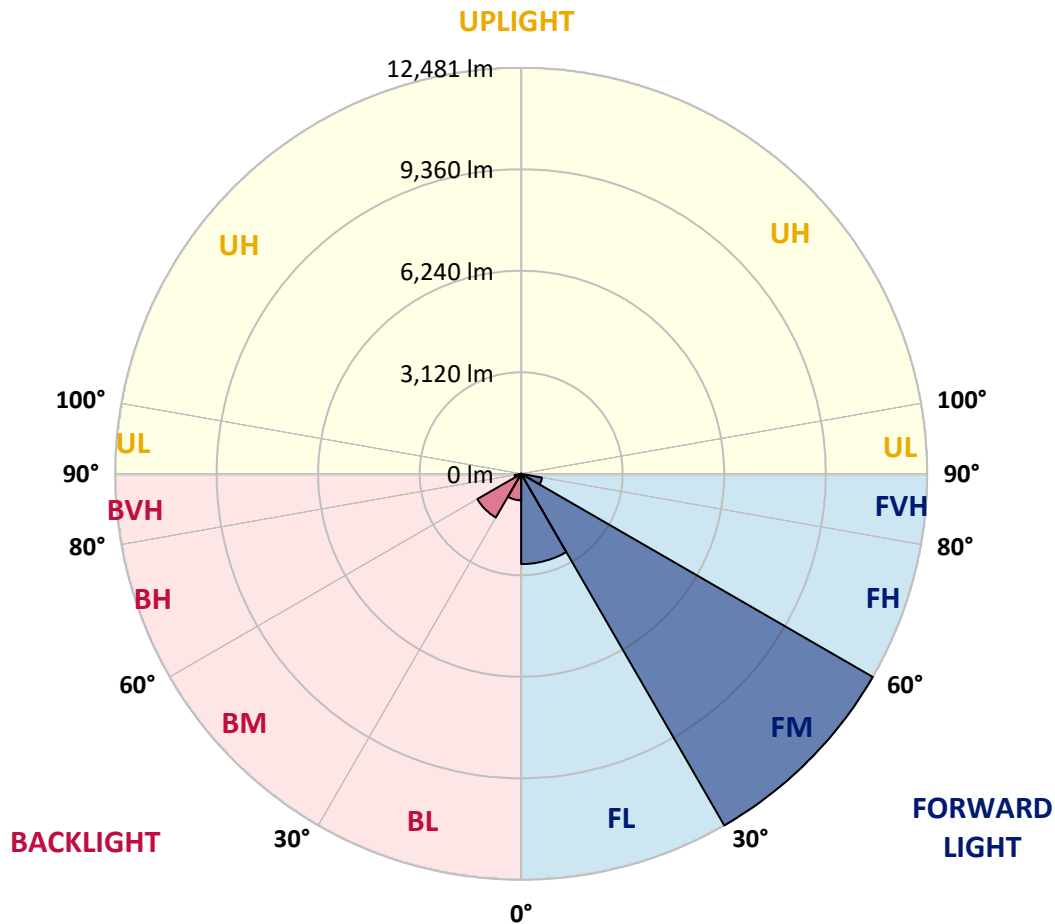
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2775.8	15.0			
FM	(30°-60°)	12480.6	67.4			
FH	(60°-80°)	651.0	3.5			G0/660
FVH	(80°-90°)	12.4	0.1			G1/100
BL	(0°-30°)	813.2	4.4	B2/1000		
BM	(30°-60°)	1552.5	8.4	B2/2500		
BH	(60°-80°)	204.1	1.1	B1/500		G1/500
BVH	(80°-90°)	14.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7
2.5°	2509.9	2491.6	2452.1	2379.1	2348.7	2275.6	2233.0	2150.9	2099.2	2041.4	1977.5
5°	3535.2	3440.8	3383.0	3300.9	3060.6	2911.5	2665.1	2455.1	2357.8	2251.3	2105.3
7.5°	4593.9	4533.0	4453.9	4277.5	4113.2	3802.9	3380.0	2917.6	2719.8	2537.3	2248.3
10°	5470.1	5299.7	5290.6	5159.7	4980.2	4609.1	4101.0	3526.0	3173.1	2905.4	2452.1
12.5°	6081.6	5926.4	5996.4	5981.2	5813.8	5473.1	4885.9	4125.4	3757.2	3340.4	2662.0
15°	6638.3	6574.4	6553.1	6534.9	6467.9	6215.4	5689.1	4855.5	4323.1	3821.1	2899.3
17.5°	7182.9	7018.6	7097.7	7112.9	7106.8	6878.6	6385.8	5549.2	4922.4	4329.2	3148.8
20°	7666.6	7681.8	7575.3	7554.0	7535.8	7526.7	7046.0	6236.7	5658.7	4861.6	3474.3
22.5°	8287.2	8180.7	8275.1	8214.2	8095.6	8022.5	7654.4	6845.2	6297.6	5503.5	3805.9
25°	9020.4	9105.6	8883.5	8859.2	8728.4	8475.9	8144.2	7526.7	6912.1	6099.8	4164.9
27.5°	9924.0	9774.9	9717.1	9583.3	9346.0	9239.5	8850.1	8229.4	7654.4	6726.5	4511.7
30°	10699.8	10660.2	10371.2	10213.0	10006.1	10003.1	9458.5	9181.7	8621.9	7709.2	4989.4
32.5°	11332.6	11159.2	11052.7	10943.2	10775.8	10821.5	10362.1	10216.0	9653.2	8621.9	5552.2
35°	11755.5	11630.7	11566.8	11399.5	11350.8	11554.7	11363.0	11302.2	10839.7	9905.7	6212.4
37.5°	11889.3	11928.9	11916.7	11706.8	11810.2	12360.9	12607.3	12449.1	12205.7	11259.6	6927.3
40°	12008.0	12035.3	11974.5	12220.9	12516.0	13142.7	14034.1	13772.5	13681.2	12631.6	7922.2
42.5°	12074.9	12053.6	12053.6	12479.5	12926.7	14186.3	15412.3	15238.9	15168.9	14091.9	9072.1
45°	11785.9	11579.0	11801.1	12379.1	13279.6	14700.4	16513.6	16754.0	16653.6	15829.1	10416.8
47.5°	10705.9	10833.6	10958.4	11731.1	12850.7	14542.2	17189.0	18007.4	18193.0	17289.4	11299.1
50°	9072.1	9044.8	9303.4	10276.9	11636.8	13860.7	17058.2	18369.4	18707.1	17727.5	11484.7
52.5°	6598.8	6799.5	7079.4	8046.9	9659.3	12096.2	15369.7	17435.4	17885.7	17189.0	11363.0
55°	3842.4	3620.3	4250.1	5068.5	6589.6	9123.9	12993.7	15454.9	16288.5	16209.4	10748.5
57.5°	1539.4	1490.7	1706.7	2300.0	3437.8	5655.6	9449.4	12698.6	14034.1	14846.4	9446.3
60°	675.4	660.2	775.8	937.0	1405.5	2607.3	5168.9	7897.8	9291.2	10374.2	6501.4
62.5°	486.8	480.7	538.5	596.3	742.3	1134.8	2172.2	3182.2	3967.2	4791.6	2911.5
65°	392.5	407.7	447.2	477.6	547.6	629.8	766.7	885.3	1086.1	1125.7	641.9
67.5°	319.4	331.6	368.1	401.6	413.8	340.7	352.9	310.3	310.3	276.8	222.1
70°	234.3	237.3	279.9	319.4	255.6	136.9	240.3	240.3	216.0	206.9	188.6
72.5°	173.4	176.5	209.9	197.7	100.4	85.2	176.5	194.7	176.5	167.3	152.1
75°	127.8	130.8	109.5	45.6	42.6	54.8	103.4	133.9	127.8	124.7	115.6
77.5°	24.3	18.3	15.2	21.3	30.4	45.6	66.9	82.1	85.2	91.3	85.2
80°	3.0	3.0	9.1	18.3	33.5	48.7	70.0	79.1	82.1	85.2	79.1
82.5°	0.0	3.0	9.1	18.3	33.5	45.6	60.8	70.0	76.1	79.1	76.1
85°	0.0	3.0	6.1	15.2	27.4	33.5	30.4	21.3	18.3	21.3	15.2
87.5°	0.0	0.0	3.0	3.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1
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°	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7
2.5°	1941.0	1928.8	1886.2	1840.6	1801.0	1819.3	1801.0	1785.8	1791.9	1785.8	1779.7
5°	2047.5	1992.7	1901.4	1861.9	1828.4	1825.4	1816.3	1813.2	1816.3	1816.3	1788.9
7.5°	2147.9	2059.6	1962.3	1919.7	1880.1	1883.2	1861.9	1861.9	1858.8	1843.6	1837.6
10°	2300.0	2181.3	2056.6	1980.5	1931.9	1922.7	1901.4	1880.1	1880.1	1880.1	1849.7
12.5°	2467.3	2318.2	2147.9	2059.6	2001.8	1956.2	1922.7	1916.7	1883.2	1877.1	1861.9
15°	2613.3	2424.7	2208.7	2087.0	2014.0	1953.2	1901.4	1868.0	1852.8	1843.6	1831.5
17.5°	2756.3	2516.0	2242.2	2087.0	2007.9	1937.9	1883.2	1852.8	1816.3	1822.3	1798.0
20°	2948.0	2613.3	2251.3	2047.5	1950.1	1883.2	1810.2	1795.0	1773.7	1755.4	1761.5
22.5°	3133.6	2683.3	2223.9	1998.8	1858.8	1779.7	1743.2	1725.0	1715.9	1700.6	1679.4
25°	3300.9	2759.4	2181.3	1910.6	1761.5	1703.7	1670.2	1667.2	1645.9	1645.9	1606.3
27.5°	3471.3	2786.7	2108.3	1807.1	1676.3	1642.8	1627.6	1621.5	1612.4	1591.1	1563.7
30°	3666.0	2795.9	2001.8	1700.6	1600.3	1563.7	1585.0	1600.3	1560.7	1521.2	1533.3
32.5°	3827.2	2774.6	1874.1	1600.3	1545.5	1527.2	1569.8	1585.0	1539.4	1496.8	1475.5
35°	4021.9	2722.9	1749.3	1521.2	1490.7	1527.2	1563.7	1563.7	1472.5	1420.8	1408.6
37.5°	4317.0	2665.1	1633.7	1454.2	1432.9	1509.0	1557.7	1524.2	1381.2	1317.3	1302.1
40°	4633.4	2628.5	1521.2	1387.3	1402.5	1478.6	1505.9	1402.5	1256.5	1216.9	1204.8
42.5°	5092.8	2555.5	1420.8	1329.5	1375.1	1436.0	1436.0	1250.4	1195.6	1174.3	1171.3
45°	5664.8	2503.8	1332.5	1280.8	1335.6	1350.8	1302.1	1171.3	1131.7	1125.7	1128.7
47.5°	5944.7	2403.4	1241.3	1223.0	1262.6	1265.6	1137.8	1107.4	1073.9	1064.8	1058.7
50°	5902.1	2223.9	1122.6	1146.9	1201.7	1171.3	1037.4	1043.5	1013.1	1010.0	994.8
52.5°	5603.9	1941.0	1004.0	1061.8	1122.6	1034.4	955.3	949.2	949.2	909.6	894.4
55°	4968.1	1563.7	861.0	934.0	1007.0	870.1	848.8	842.7	827.5	791.0	781.9
57.5°	3933.7	1146.9	648.0	727.1	854.9	739.3	736.2	708.9	669.3	641.9	641.9
60°	2339.5	660.2	407.7	444.2	565.9	599.3	666.3	654.1	587.2	544.6	532.4
62.5°	1067.8	340.7	258.6	264.7	304.2	389.4	523.3	605.4	511.1	438.1	432.0
65°	359.0	252.5	213.0	203.8	209.9	234.3	313.4	429.0	407.7	337.7	325.5
67.5°	219.0	225.1	200.8	185.6	185.6	182.5	179.5	194.7	240.3	234.3	237.3
70°	188.6	206.9	185.6	167.3	161.2	152.1	127.8	106.5	91.3	106.5	112.6
72.5°	152.1	164.3	158.2	143.0	127.8	115.6	91.3	70.0	51.7	45.6	45.6
75°	112.6	121.7	127.8	109.5	97.4	82.1	66.9	45.6	27.4	18.3	18.3
77.5°	82.1	91.3	94.3	85.2	73.0	57.8	42.6	30.4	15.2	6.1	6.1
80°	70.0	82.1	91.3	85.2	76.1	54.8	39.5	21.3	12.2	3.0	3.0
82.5°	66.9	82.1	91.3	82.1	73.0	51.7	39.5	24.3	9.1	3.0	3.0
85°	15.2	21.3	27.4	33.5	39.5	39.5	30.4	18.3	9.1	3.0	3.0
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	3.0	3.0	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)