

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: P648346

Luminaire Tested: **GALN-SA3B-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10413.1 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

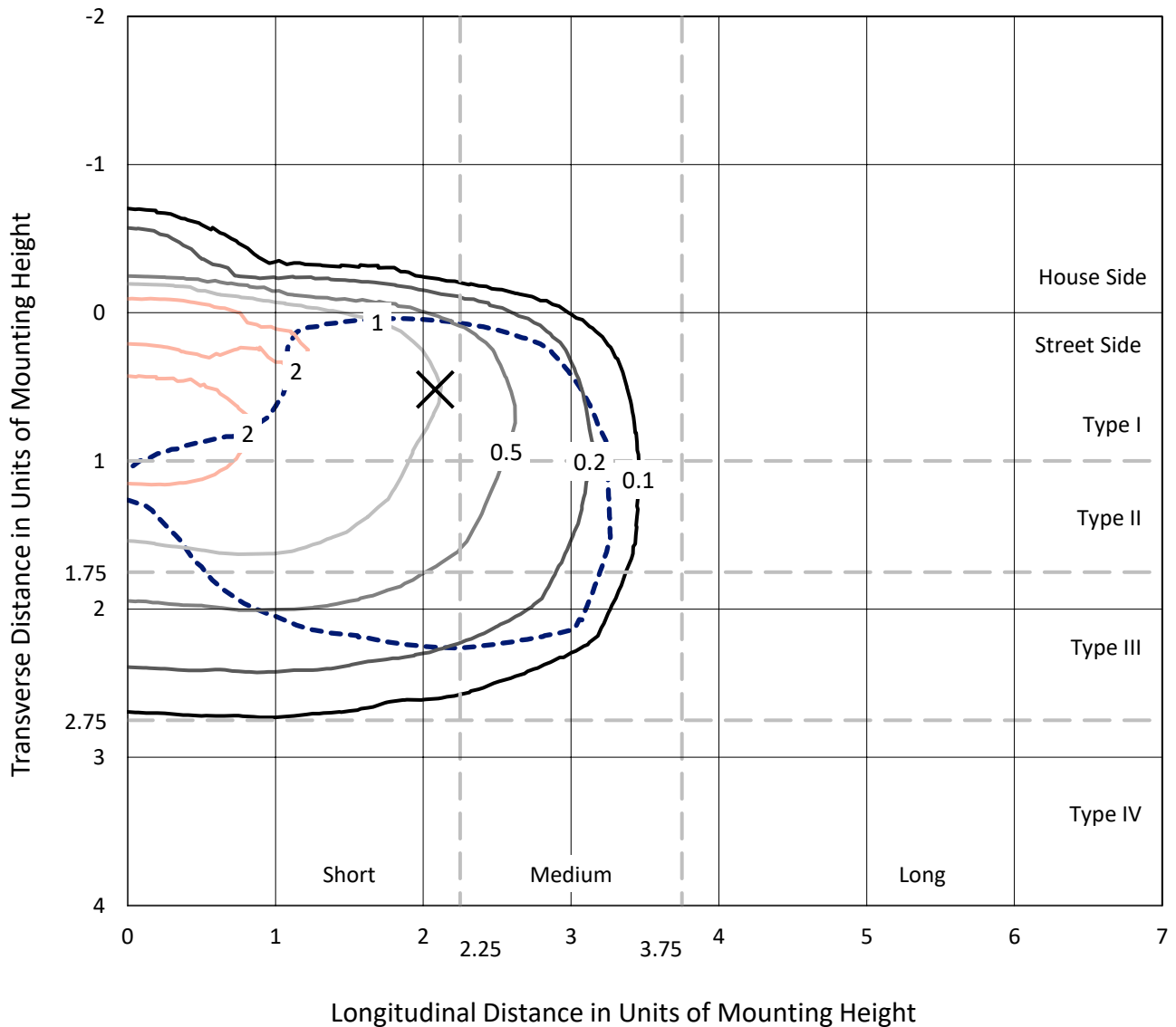
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648346
 CATALOG NUMBER: GALN-SA3B-835-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

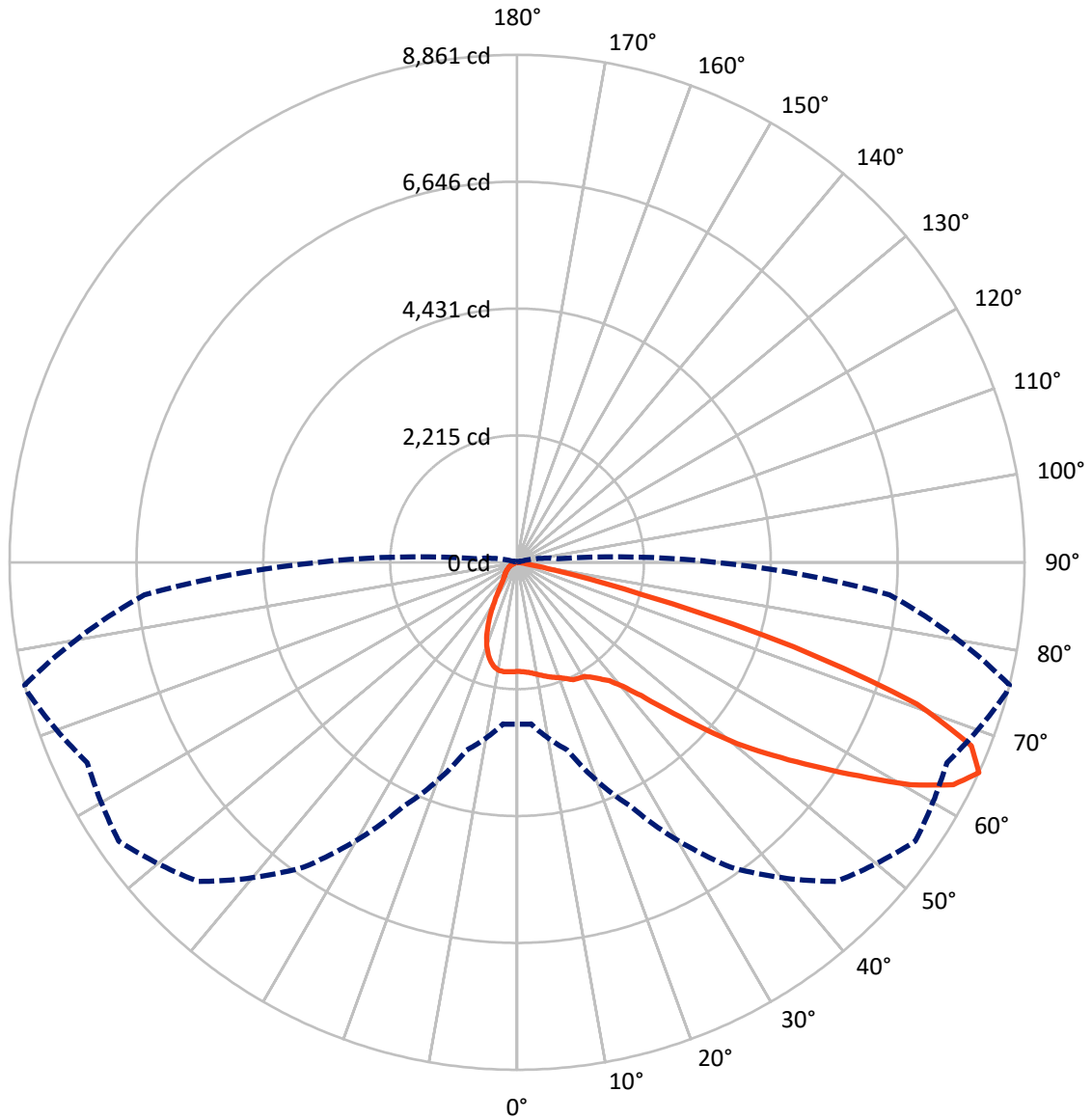
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

REPORT NUMBER: P648346
CATALOG NUMBER: GALN-SA3B-835-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P648346
 CATALOG NUMBER: GALN-SA3B-835-U-T3R-HSS

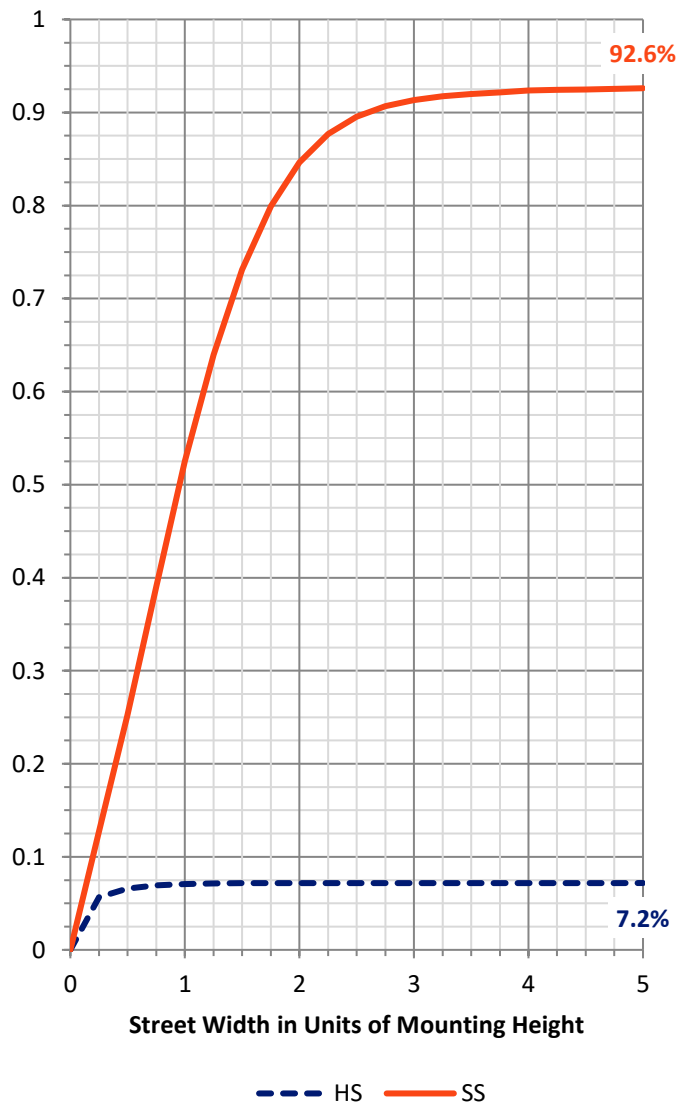
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	752.0	0.0	752.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9661.1	0.0	9661.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	10413.1	0.0	10413.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	1.5
10°-20°	349.4	3.4
20°-30°	563.0	5.4
30°-40°	978.9	9.4
40°-50°	1617.6	15.5
50°-60°	2498.9	24.0
60°-70°	3051.5	29.3
70°-80°	1158.1	11.1
80°-90°	38.7	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°	10413.1	100.0
0°-180°	10413.1	100.0

Coefficient of Utilization

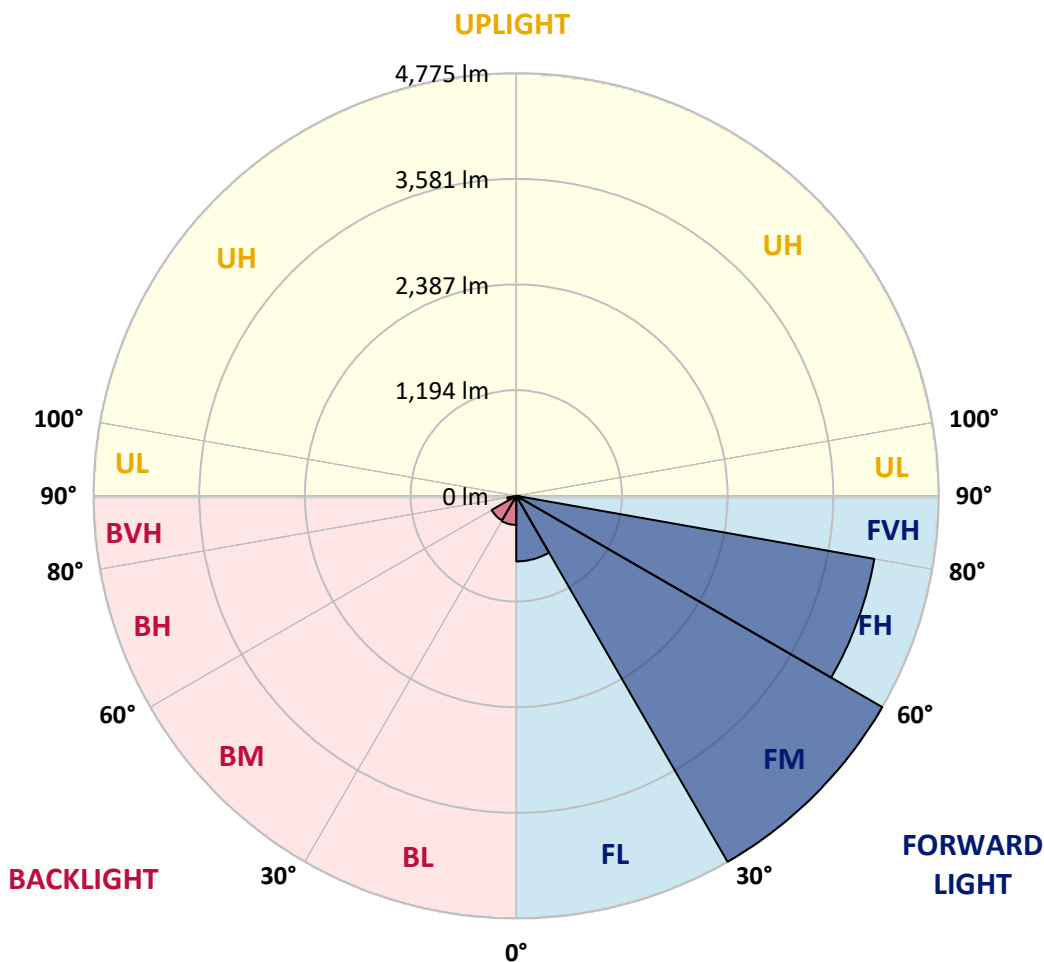


REPORT NUMBER: P648346
 CATALOG NUMBER: GALN-SA3B-835-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.8	7.1			
FM (30°-60°)	4774.6	45.9			
FH (60°-80°)	4107.6	39.4			G2/5000
FVH (80°-90°)	38.1	0.4			G1/100
BL (0°-30°)	328.5	3.2	B1/500		
BM (30°-60°)	320.9	3.1	B1/1000		
BH (60°-80°)	102.0	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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-G2
 Type III Short





REPORT NUMBER: P648346

CATALOG NUMBER: GALN-SA3B-835-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9
2.5°	1820.3	1821.1	1825.5	1836.5	1853.4	1867.4	1879.1	1898.3	1911.5	1912.9	1917.4
5°	1694.6	1685.8	1694.6	1723.3	1749.1	1788.0	1835.8	1883.6	1926.2	1929.2	1949.7
7.5°	1553.5	1560.8	1574.8	1604.2	1652.8	1712.3	1781.4	1866.7	1947.6	1954.9	1995.3
10°	1410.1	1426.3	1449.1	1493.9	1561.5	1638.7	1732.9	1854.9	1981.4	1991.6	2061.5
12.5°	1277.8	1285.1	1313.1	1373.4	1457.2	1566.0	1696.1	1848.3	2018.8	2031.3	2132.0
15°	1176.3	1185.9	1210.1	1264.5	1357.9	1497.6	1666.0	1846.1	2055.6	2073.2	2202.7
17.5°	1157.2	1163.1	1173.4	1210.1	1291.7	1443.2	1638.7	1845.4	2090.9	2112.2	2268.1
20°	1235.9	1230.7	1220.5	1216.8	1261.6	1401.3	1618.9	1851.2	2124.7	2148.9	2337.2
22.5°	1432.9	1439.5	1379.3	1307.9	1293.2	1394.7	1616.0	1879.1	2178.4	2207.0	2414.4
25°	1851.2	1800.5	1706.4	1535.9	1407.1	1435.1	1649.1	1945.4	2240.9	2272.5	2484.2
27.5°	2313.7	2298.2	2151.9	1871.1	1631.4	1520.4	1707.9	1996.0	2261.5	2293.8	2523.9
30°	2768.0	2786.4	2618.7	2308.5	1957.1	1678.4	1763.0	2015.2	2279.9	2313.7	2574.7
32.5°	3189.3	3211.3	3064.3	2757.0	2340.9	1951.9	1857.8	2089.4	2357.1	2391.6	2659.2
35°	3520.8	3523.8	3412.8	3167.9	2759.9	2284.2	2063.0	2219.6	2461.4	2501.8	2748.9
37.5°	3825.2	3820.8	3690.7	3479.7	3109.1	2614.4	2321.0	2369.5	2580.5	2622.4	2878.3
40°	4050.9	4053.9	4011.9	3813.4	3434.9	2919.5	2525.4	2510.0	2780.5	2846.0	3066.5
42.5°	4201.7	4228.8	4249.4	4148.7	3844.4	3295.2	2839.3	2810.7	3127.5	3182.0	3332.6
45°	4323.6	4372.2	4475.2	4470.0	4237.7	3756.1	3270.1	3211.3	3619.3	3677.4	3671.6
47.5°	4412.7	4461.9	4632.5	4735.4	4607.5	4203.1	3812.0	3761.3	4206.8	4270.0	4045.8
50°	4458.2	4517.0	4734.6	4933.9	4896.4	4634.0	4429.6	4432.5	4916.2	4977.3	4479.5
52.5°	4351.6	4428.1	4789.1	5147.8	5220.7	5046.4	5008.1	5105.2	5547.8	5600.0	4871.4
55°	4011.2	4107.5	4714.8	5330.2	5596.3	5533.1	5665.4	5813.2	6238.2	6272.0	5273.6
57.5°	3795.8	3898.0	4495.8	5485.3	6047.7	6144.7	6354.3	6462.3	6950.5	7036.6	5735.2
60°	3614.2	3694.4	4315.6	5518.3	6506.5	6893.2	7096.9	7208.6	7829.8	7885.7	6243.3
62.5°	3312.1	3403.9	4011.2	5287.5	6737.3	7492.4	7914.4	7864.4	8509.9	8548.9	6555.0
65°	2826.1	2834.1	3393.7	4707.5	6499.1	7881.3	8488.6	8279.1	8834.8	8861.3	6530.8
67.5°	2109.2	2187.2	2610.7	3700.2	5489.7	7549.0	8674.5	8290.1	8629.8	8556.2	6012.4
70°	1358.7	1418.2	1769.6	2565.8	3958.3	6299.9	8057.8	7721.8	7574.0	7410.8	4921.4
72.5°	627.1	703.6	1051.3	1466.0	2347.5	4487.6	6541.0	6273.4	5451.5	5048.5	3128.2
75°	273.5	292.6	519.1	773.4	1100.6	2373.2	4312.7	3894.3	2462.1	2248.9	1252.0
77.5°	166.9	179.4	272.0	414.7	432.3	904.3	2323.2	1699.0	760.9	671.3	339.7
80°	113.2	127.2	197.8	216.9	147.8	252.2	871.9	453.6	153.6	147.0	72.8
82.5°	55.1	69.8	146.3	121.3	64.0	80.9	253.6	97.0	44.9	41.9	25.8
85°	8.1	13.9	82.4	79.4	28.7	19.1	44.9	24.3	15.4	14.7	11.7
87.5°	0.0	0.0	28.0	12.5	3.0	3.0	5.2	5.2	5.9	5.2	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648346

CATALOG NUMBER: GALN-SA3B-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9	1904.9
2.5°	1919.6	1923.3	1909.3	1889.5	1868.2	1846.8	1816.6	1789.5	1773.3	1782.8	1759.3
5°	1954.1	1951.2	1914.4	1854.1	1774.0	1677.7	1582.1	1500.5	1474.1	1434.4	1430.0
7.5°	2002.0	1993.8	1915.9	1777.7	1596.9	1416.0	1239.6	1122.7	1055.7	999.1	1000.6
10°	2068.8	2045.4	1899.0	1643.1	1345.4	1072.6	847.7	693.3	626.4	605.1	588.2
12.5°	2138.0	2092.3	1852.0	1461.5	1047.7	733.0	515.4	421.3	380.1	366.8	365.4
15°	2199.7	2127.6	1769.6	1243.2	761.6	468.3	351.4	320.6	315.4	316.1	315.4
17.5°	2260.8	2155.6	1655.7	1011.6	517.6	336.0	302.2	294.8	297.0	300.0	299.3
20°	2311.4	2161.5	1510.1	772.0	366.1	294.8	283.8	282.3	284.5	286.7	286.7
22.5°	2366.6	2165.9	1337.3	534.5	299.3	274.2	268.3	268.3	271.3	274.2	275.0
25°	2407.8	2141.7	1130.7	383.7	263.9	254.4	251.4	252.2	255.1	256.6	255.9
27.5°	2414.4	2073.2	911.6	294.1	239.7	230.1	227.1	230.1	226.4	228.6	227.1
30°	2420.3	1986.5	689.6	247.7	217.6	202.9	198.5	194.1	191.1	187.5	186.7
32.5°	2438.7	1884.3	503.6	222.8	197.0	180.9	170.5	158.1	148.5	145.6	144.9
35°	2446.7	1761.5	369.8	202.9	178.7	161.0	142.7	125.0	111.0	105.9	109.5
37.5°	2477.6	1642.4	286.7	188.2	162.5	140.4	116.9	94.8	81.6	78.7	80.1
40°	2540.8	1513.1	240.4	175.7	148.5	121.3	92.6	71.3	62.5	59.6	58.8
42.5°	2642.3	1384.3	213.9	164.0	134.5	102.2	72.8	55.9	48.5	46.4	46.4
45°	2765.8	1260.9	195.6	151.4	119.8	82.4	57.3	44.9	40.4	39.0	39.0
47.5°	2928.3	1152.8	180.1	139.0	103.7	65.5	46.4	39.0	36.0	36.7	37.5
50°	3092.9	1072.6	163.2	125.0	85.3	53.6	39.7	34.5	33.8	34.5	34.5
52.5°	3217.2	1025.6	140.4	105.9	66.9	44.9	35.3	32.3	31.6	30.1	30.1
55°	3384.8	1015.3	111.7	86.1	52.9	37.5	31.6	29.4	27.2	25.8	25.0
57.5°	3600.2	1027.1	86.1	66.9	41.2	30.9	28.0	24.3	21.3	18.4	18.4
60°	3734.0	1000.6	66.9	51.4	30.1	25.0	21.3	17.6	13.9	11.7	11.0
62.5°	3691.5	888.9	52.9	38.2	21.3	18.4	13.9	11.7	8.1	5.9	5.2
65°	3471.6	717.5	42.7	26.5	15.4	11.0	7.4	7.4	3.7	0.7	0.0
67.5°	3038.6	531.6	33.8	17.6	8.8	5.2	3.7	2.2	0.0	0.0	0.0
70°	2473.2	383.7	26.5	11.0	5.2	3.7	1.5	0.7	0.0	0.0	0.0
72.5°	1570.4	219.8	20.6	6.7	3.7	1.5	0.0	0.0	0.0	0.0	0.0
75°	607.3	86.1	13.9	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	172.0	40.4	8.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.9	17.6	4.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.3	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.5	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	0.7	0.0	0.0	0.0	0.0	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)