

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: P199924

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-AFL-7030-600-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6370.4 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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: 25 FT

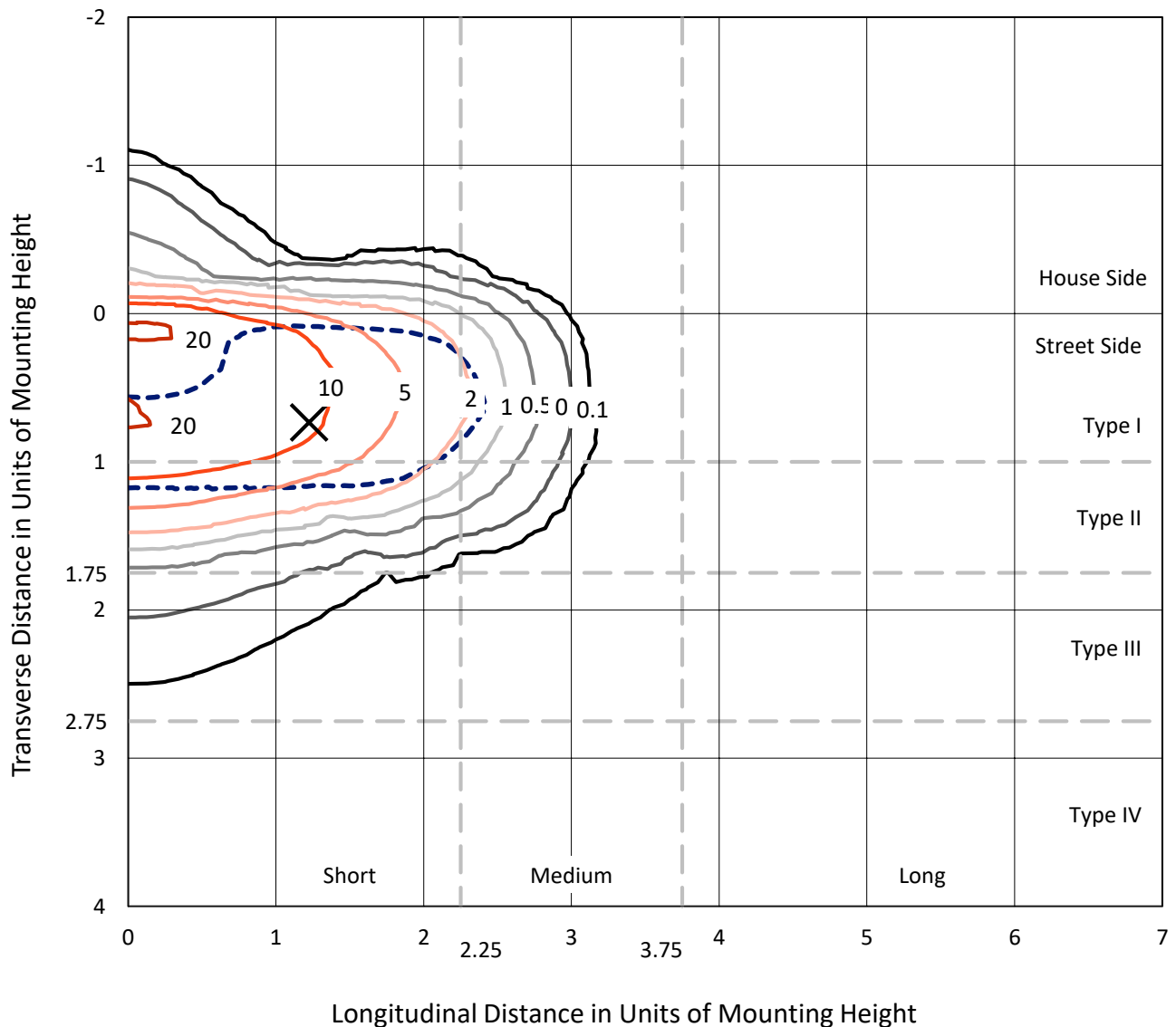


REPORT NUMBER: P199924

CATALOG NUMBER: GWC-AF-02-LED-E1-AFL-7030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

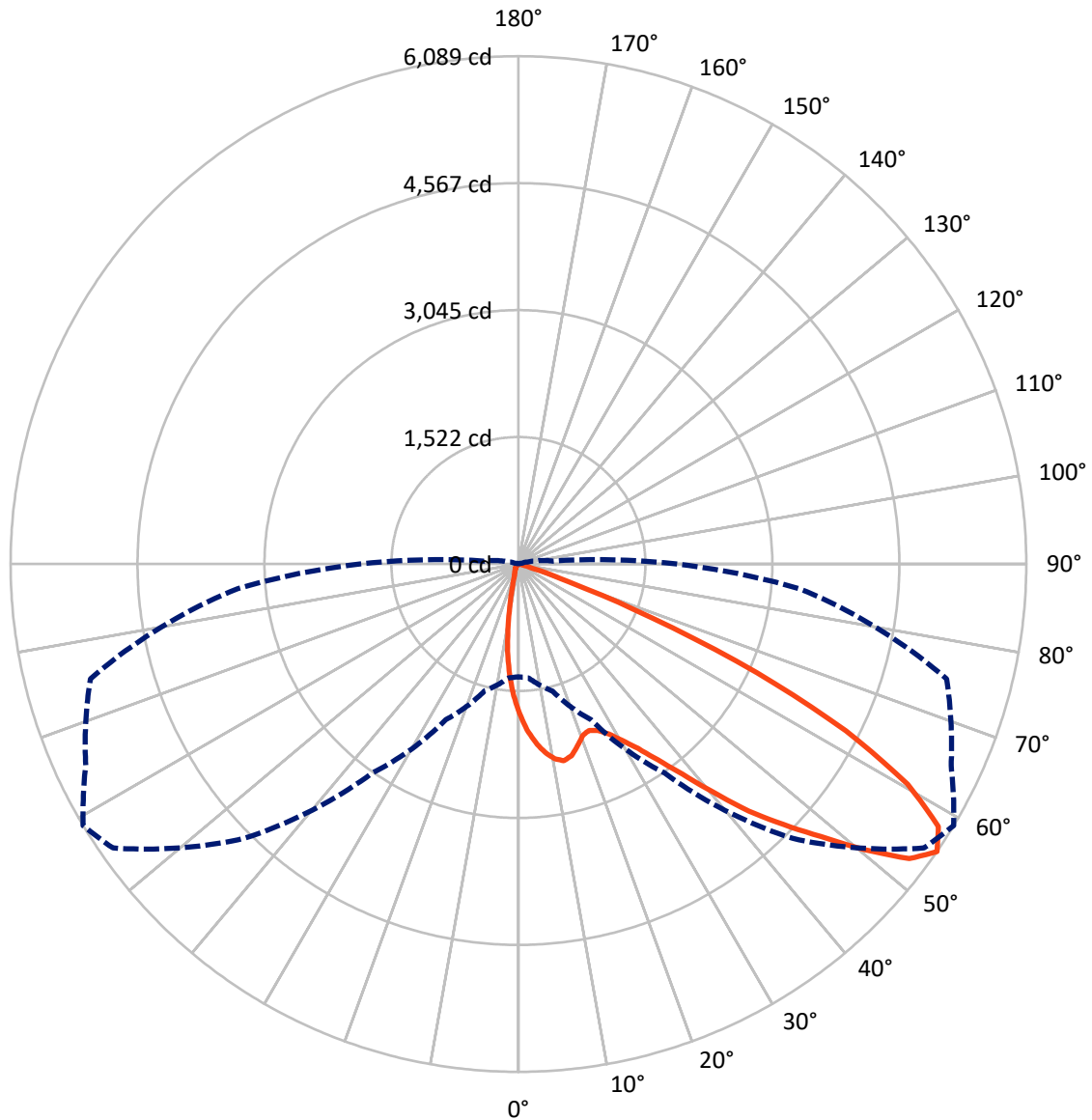
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.3 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P199924
CATALOG NUMBER: GWC-AF-02-LED-E1-AFL-7030-600-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P199924

CATALOG NUMBER: GWC-AF-02-LED-E1-AFL-7030-600-HSS

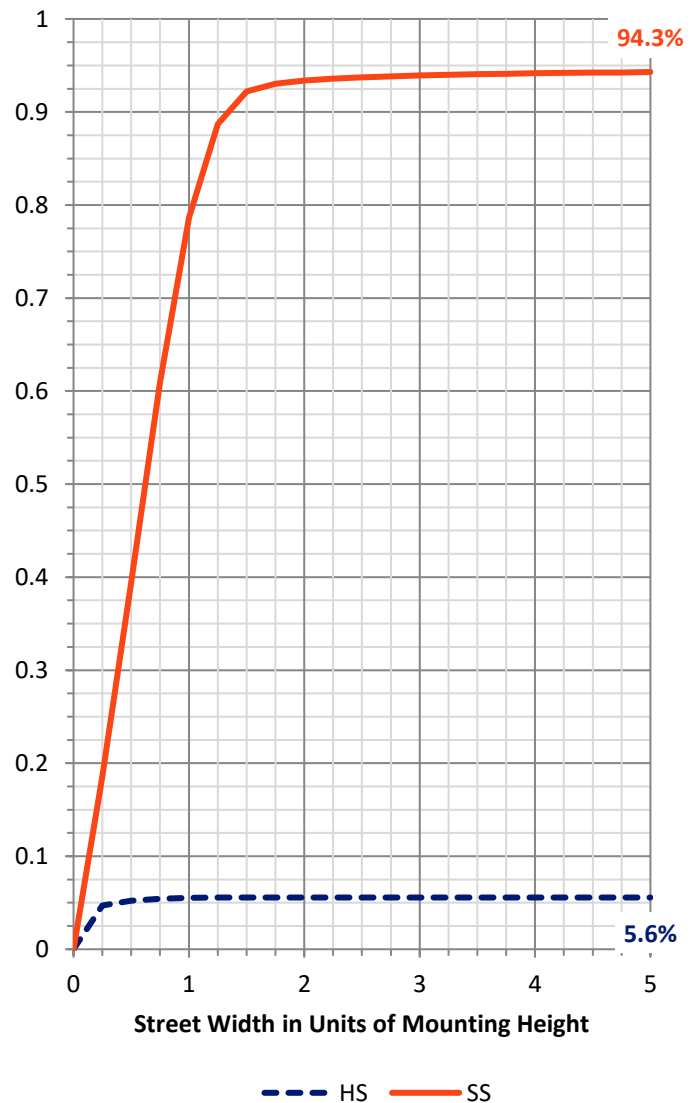
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	355.9	0.0	355.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	6014.5	0.0	6014.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	6370.4	0.0	6370.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	2.4
10°-20°	359.6	5.6
20°-30°	611.9	9.6
30°-40°	1052.4	16.5
40°-50°	1624.8	25.5
50°-60°	1633.5	25.6
60°-70°	837.7	13.1
70°-80°	90.8	1.4
80°-90°	9.5	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°	6370.4	100.0
0°-180°	6370.4	100.0



REPORT NUMBER: P199924

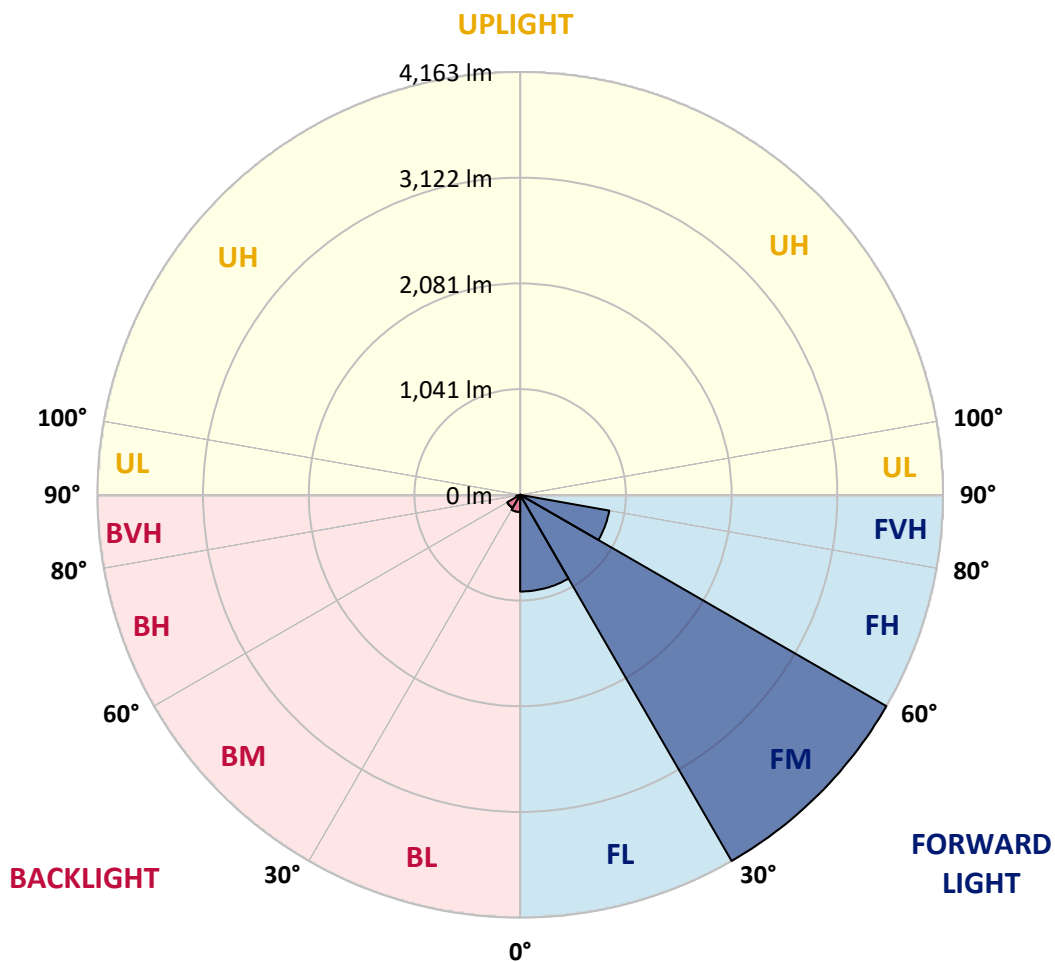
CATALOG NUMBER: GWC-AF-02-LED-E1-AFL-7030-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	951.9	14.9			
FM	(30°-60°)	4163.0	65.3			
FH	(60°-80°)	890.3	14.0			G1/1800
FVH	(80°-90°)	9.3	0.1			G0/10
BL	(0°-30°)	169.8	2.7	B1/500		
BM	(30°-60°)	147.7	2.3	B0/220		
BH	(60°-80°)	38.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G1

Type II Short





REPORT NUMBER: P199924

CATALOG NUMBER: GWC-AF-02-LED-E1-AFL-7030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3
2.5°	2121.8	2099.3	2092.5	2088.0	2067.3	2041.4	2006.0	1989.5	1955.7	1901.1	1834.2
5°	2316.1	2312.1	2297.0	2288.7	2266.5	2229.7	2173.3	2146.2	2092.5	2000.8	1880.8
7.5°	2231.2	2257.2	2277.8	2312.4	2356.0	2354.5	2307.1	2279.0	2218.8	2097.8	1932.7
10°	1903.0	1924.1	1957.9	2036.4	2196.6	2337.9	2393.6	2373.3	2325.2	2186.8	1982.7
12.5°	1838.7	1836.5	1842.5	1865.5	1949.2	2150.7	2379.0	2419.9	2410.1	2268.4	2030.1
15°	1873.0	1870.3	1869.5	1877.5	1897.8	1982.7	2268.8	2386.5	2462.0	2344.0	2070.3
17.5°	1968.8	1957.5	1951.5	1945.1	1939.1	1960.2	2136.4	2292.8	2469.9	2410.1	2103.8
20°	2133.1	2114.3	2092.1	2056.0	2022.2	2011.6	2080.8	2196.6	2441.7	2460.5	2125.6
22.5°	2339.4	2315.4	2277.0	2211.3	2142.5	2102.6	2108.3	2166.2	2399.6	2515.4	2135.7
25°	2571.4	2540.6	2489.5	2398.1	2297.0	2226.3	2189.5	2209.8	2380.5	2579.7	2147.4
27.5°	2819.9	2785.7	2718.8	2594.3	2479.7	2384.2	2309.0	2306.4	2413.1	2663.9	2166.2
30°	3066.2	3060.9	2973.7	2842.1	2690.2	2574.0	2465.8	2451.9	2504.5	2780.5	2203.4
32.5°	3394.7	3355.3	3248.4	3113.1	2937.9	2798.5	2670.3	2637.9	2644.7	2916.1	2260.9
35°	3809.0	3765.8	3615.4	3428.6	3232.6	3068.0	2926.3	2882.3	2865.7	3138.3	2357.9
37.5°	4076.6	4075.9	3981.6	3791.4	3581.2	3399.7	3245.4	3194.0	3160.5	3406.7	2508.3
40°	4083.8	4101.5	4113.9	4112.0	3962.4	3795.1	3658.3	3594.7	3516.9	3765.4	2702.6
42.5°	3864.6	3910.2	4019.5	4205.2	4293.9	4227.4	4112.0	4049.6	3933.8	4149.3	2939.4
45°	3568.4	3600.0	3791.4	4133.5	4473.6	4656.0	4568.0	4456.3	4303.7	4549.6	3151.9
47.5°	3435.7	3441.3	3565.1	3940.6	4487.2	5007.1	5060.5	4878.9	4639.8	4872.1	3318.0
50°	3039.1	3049.2	3219.9	3606.4	4328.5	5173.0	5555.2	5383.0	5006.4	5120.6	3378.6
52.5°	2290.6	2304.9	2521.4	3057.1	3892.4	5102.3	5909.3	5867.7	5407.9	5242.1	3381.9
55°	1351.5	1370.3	1577.1	2057.9	3061.6	4652.6	5935.7	6089.0	5724.8	5313.9	3376.7
57.5°	631.2	644.3	762.8	1060.1	1904.1	3677.1	5539.4	5937.2	5899.6	5351.9	3413.9
60°	335.3	339.1	367.7	459.1	860.5	2331.6	4766.1	5361.2	5740.2	5404.5	3459.4
62.5°	256.4	257.6	256.1	266.9	361.6	1035.0	3602.7	4407.5	5098.5	5365.0	3409.0
65°	222.2	224.1	213.5	210.9	232.0	369.2	2140.2	3141.7	4006.4	4832.3	3065.7
67.5°	199.2	200.0	187.2	176.4	180.1	199.7	844.3	1719.9	2651.9	3542.1	2222.2
70°	183.5	182.7	168.8	151.6	146.6	136.5	268.4	630.5	1267.3	1796.3	1033.5
72.5°	162.4	162.8	156.1	133.5	121.8	95.5	124.5	183.9	378.2	489.5	242.1
75°	144.0	142.1	133.8	119.5	100.4	62.8	61.7	82.0	116.5	115.8	52.3
77.5°	104.2	102.3	104.9	98.2	77.1	40.6	30.8	39.5	47.4	45.9	14.7
80°	76.4	75.2	67.7	81.6	68.1	27.8	19.2	21.1	24.5	20.7	4.5
82.5°	52.3	51.9	47.8	45.1	38.8	17.0	12.0	13.2	15.8	11.7	2.3
85°	8.3	9.5	34.6	27.5	23.0	7.5	8.3	9.0	10.5	6.4	0.8
87.5°	0.0	0.0	16.2	14.3	4.5	3.0	4.9	5.3	5.3	3.4	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



REPORT NUMBER: P199924

CATALOG NUMBER: GWC-AF-02-LED-E1-AFL-7030-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3	1793.3
2.5°	1800.0	1762.4	1692.8	1621.0	1554.5	1475.1	1420.7	1379.6	1332.3	1319.5	1347.3
5°	1812.4	1741.4	1591.7	1428.9	1275.9	1106.4	976.7	874.1	781.2	749.6	778.2
7.5°	1831.9	1726.4	1482.3	1214.2	948.1	683.4	502.2	383.1	307.2	284.6	296.7
10°	1851.5	1704.6	1355.6	960.1	596.2	332.7	216.5	172.9	156.8	153.4	155.3
12.5°	1867.7	1675.2	1201.1	682.7	318.8	178.2	141.8	134.6	132.3	132.3	133.1
15°	1877.5	1630.9	1018.0	434.2	183.5	134.6	123.7	121.5	121.5	121.8	122.6
17.5°	1876.3	1574.4	817.7	262.8	137.3	119.2	112.8	111.0	110.5	111.3	111.7
20°	1862.4	1500.7	616.5	173.4	119.5	108.7	102.3	98.9	98.5	99.2	100.0
22.5°	1836.1	1409.7	441.0	133.5	107.9	98.5	90.7	87.6	87.6	88.4	89.1
25°	1804.1	1298.4	301.5	113.2	97.4	87.6	80.1	77.4	78.2	80.1	80.4
27.5°	1764.3	1173.3	204.9	97.0	84.6	76.7	71.1	69.2	71.1	73.7	74.4
30°	1730.1	1042.8	146.3	83.9	71.9	66.2	62.8	62.8	65.4	70.4	71.4
32.5°	1703.8	916.5	112.8	74.1	62.4	57.6	55.6	57.6	61.7	66.6	67.7
35°	1700.4	812.4	95.5	66.2	55.6	50.8	50.1	53.4	57.6	61.3	62.1
37.5°	1726.4	716.2	86.1	59.8	49.6	45.1	44.4	48.5	52.6	57.1	58.3
40°	1775.6	640.6	79.4	53.8	44.8	39.8	38.3	41.4	47.0	53.1	54.6
42.5°	1839.5	578.2	71.9	47.8	39.8	33.1	31.3	34.6	40.6	47.0	48.9
45°	1900.4	524.5	63.6	41.0	33.5	25.6	24.8	29.3	32.3	38.8	40.3
47.5°	1933.9	477.1	56.4	33.5	26.0	20.7	20.7	21.8	24.8	32.3	33.8
50°	1922.6	439.1	48.9	24.8	18.0	15.8	15.8	15.5	20.0	26.0	27.1
52.5°	1900.0	417.3	42.1	19.2	12.5	11.3	10.2	11.3	14.0	16.5	17.0
55°	1896.6	413.5	35.3	15.5	8.7	7.5	5.7	5.7	5.7	5.3	4.5
57.5°	1922.9	419.5	29.8	12.5	6.4	4.9	3.0	0.0	0.0	0.0	0.0
60°	1950.0	426.0	25.6	8.7	4.5	2.7	0.4	0.0	0.0	0.0	0.0
62.5°	1904.9	411.7	21.5	5.3	3.4	1.2	0.0	0.0	0.0	0.0	0.0
65°	1673.3	350.4	17.0	3.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1190.2	234.6	11.3	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	543.3	98.2	7.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	116.2	30.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.7	22.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.5	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.5	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)