

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: **GPC-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: GPC-AF-02-LED-E1-AFL-7030-600-HSS
Description: GALLEON PEDESTRIAN 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: 6480.2 lumens
Efficiency: N/A
Efficacy: 98.2 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

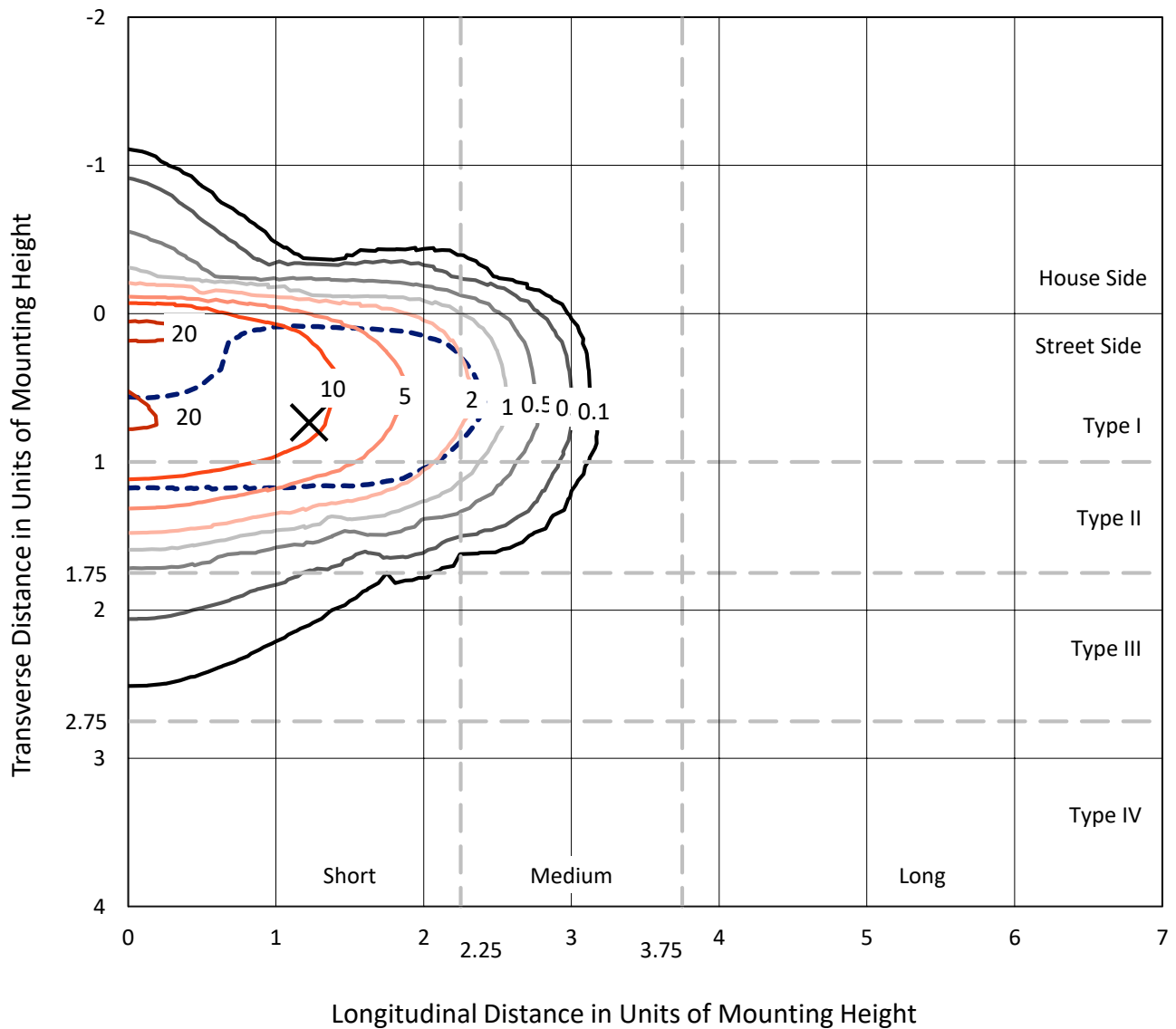


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

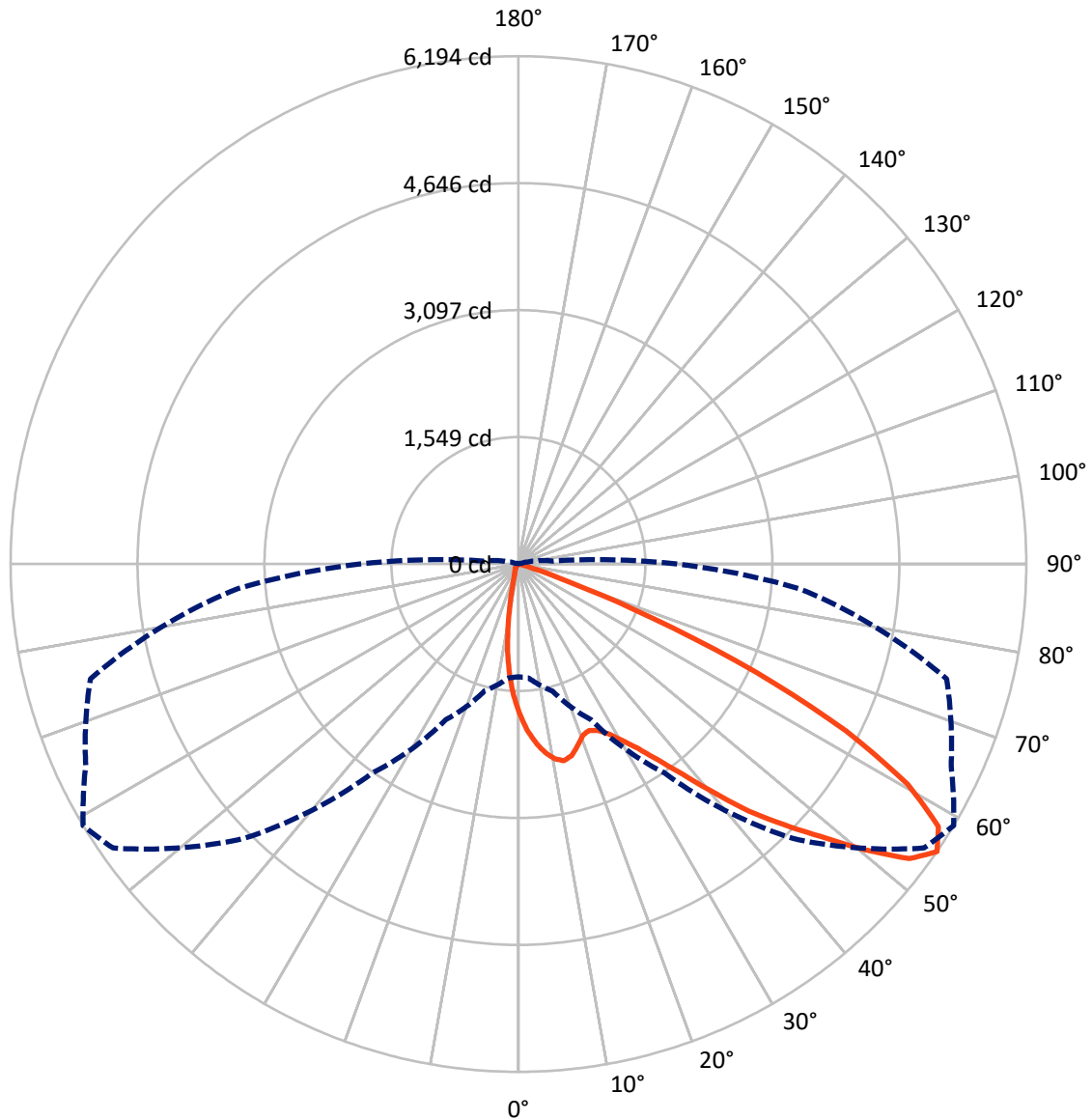


Based on 10 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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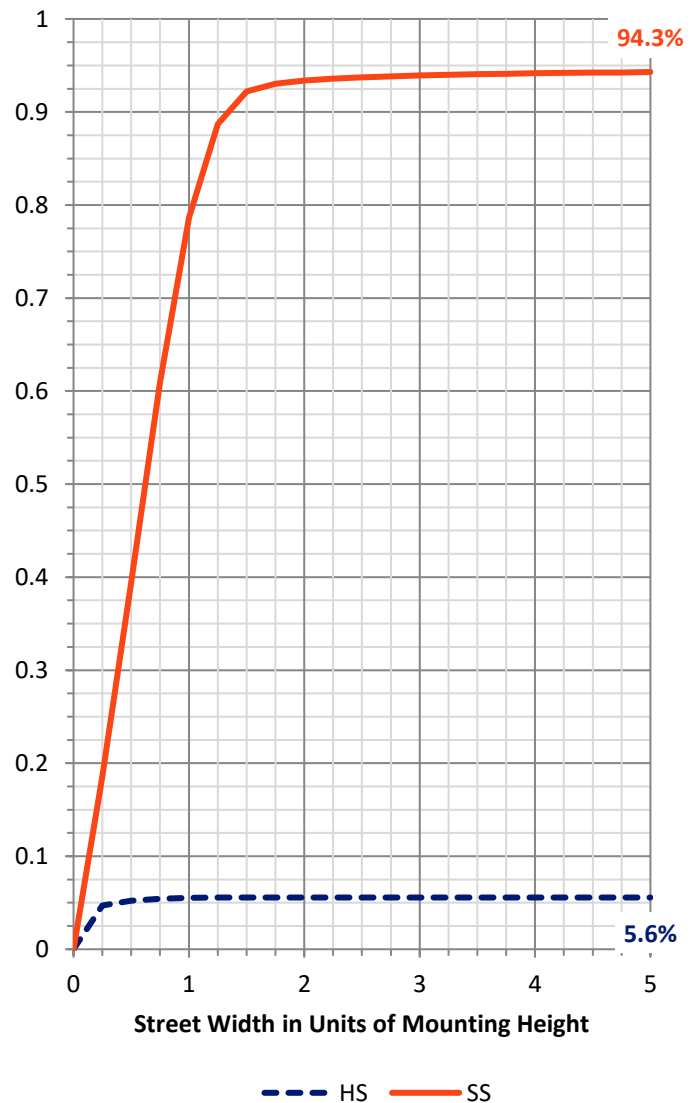
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.0	0.0	362.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	6118.2	0.0	6118.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	6480.2	0.0	6480.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	2.4
10°-20°	365.8	5.6
20°-30°	622.5	9.6
30°-40°	1070.6	16.5
40°-50°	1652.8	25.5
50°-60°	1661.6	25.6
60°-70°	852.1	13.1
70°-80°	92.4	1.4
80°-90°	9.7	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°	6480.2	100.0
0°-180°	6480.2	100.0

Coefficient of Utilization



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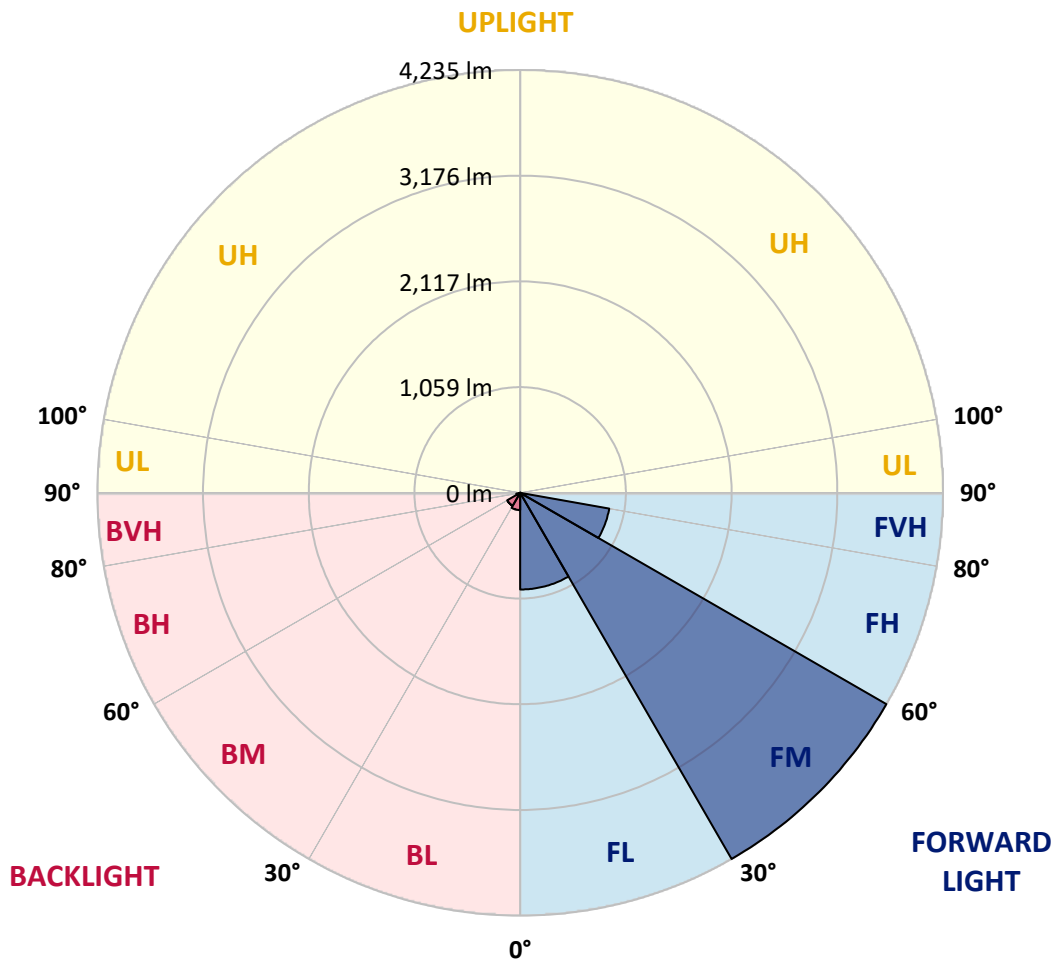
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.4	14.9			
FM (30°-60°)	4234.8	65.3			
FH (60°-80°)	905.7	14.0			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	172.8	2.7	B1/500		
BM (30°-60°)	150.2	2.3	B0/220		
BH (60°-80°)	38.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2
2.5°	2158.4	2135.5	2128.6	2124.0	2102.9	2076.6	2040.6	2023.8	1989.4	1933.9	1865.8
5°	2356.0	2352.0	2336.6	2328.2	2305.6	2268.1	2210.8	2183.2	2128.6	2035.3	1913.2
7.5°	2269.7	2296.1	2317.1	2352.3	2396.6	2395.1	2346.9	2318.3	2257.1	2134.0	1966.0
10°	1935.8	1957.3	1991.7	2071.5	2234.5	2378.2	2434.9	2414.2	2365.3	2224.5	2016.9
12.5°	1870.4	1868.2	1874.3	1897.7	1982.8	2187.8	2420.0	2461.6	2451.7	2307.5	2065.1
15°	1905.3	1902.5	1901.7	1909.9	1930.5	2016.9	2307.9	2427.6	2504.4	2384.4	2106.0
17.5°	2002.7	1991.2	1985.1	1978.6	1972.5	1994.0	2173.2	2332.3	2512.5	2451.7	2140.1
20°	2169.9	2150.8	2128.2	2091.4	2057.1	2046.3	2116.7	2234.5	2483.8	2502.9	2162.2
22.5°	2379.7	2355.3	2316.3	2249.4	2179.4	2138.9	2144.6	2203.5	2441.0	2558.8	2172.5
25°	2615.7	2584.4	2532.4	2439.4	2336.6	2264.7	2227.2	2247.9	2421.5	2624.2	2184.4
27.5°	2868.5	2833.7	2765.7	2639.0	2522.5	2425.3	2348.8	2346.2	2454.7	2709.8	2203.5
30°	3119.1	3113.7	3025.0	2891.1	2736.6	2618.4	2508.3	2494.2	2547.7	2828.4	2241.4
32.5°	3453.2	3413.2	3304.4	3166.8	2988.6	2846.8	2716.3	2683.4	2690.3	2966.4	2299.9
35°	3874.7	3830.7	3677.7	3487.7	3288.3	3120.9	2976.8	2932.0	2915.1	3192.4	2398.6
37.5°	4146.9	4146.2	4050.2	3856.8	3642.9	3458.3	3301.4	3249.1	3215.0	3465.4	2551.5
40°	4154.2	4172.2	4184.8	4182.9	4030.7	3860.5	3721.4	3656.7	3577.5	3830.3	2749.2
42.5°	3931.2	3977.6	4088.8	4277.7	4367.9	4300.3	4182.9	4119.4	4001.6	4220.8	2990.1
45°	3629.9	3662.1	3856.8	4204.8	4550.7	4736.3	4646.8	4533.1	4377.9	4628.0	3206.2
47.5°	3494.9	3500.6	3626.6	4008.5	4564.6	5093.4	5147.8	4963.0	4719.8	4956.1	3375.2
50°	3091.5	3101.8	3275.4	3668.6	4403.1	5262.2	5651.0	5475.8	5092.7	5208.9	3436.9
52.5°	2330.1	2344.6	2564.9	3109.8	3959.5	5190.3	6011.2	5968.9	5501.1	5332.5	3440.2
55°	1374.8	1393.9	1604.3	2093.4	3114.4	4732.8	6038.0	6194.0	5823.5	5405.5	3434.9
57.5°	642.1	655.4	776.0	1078.4	1936.9	3740.5	5634.9	6039.6	6001.3	5444.2	3472.8
60°	341.1	344.9	374.0	467.0	875.3	2371.8	4848.3	5453.6	5839.2	5497.7	3519.0
62.5°	260.8	262.0	260.5	271.5	367.8	1052.8	3664.8	4483.5	5186.4	5457.5	3467.8
65°	226.0	228.0	217.2	214.5	236.0	375.6	2177.1	3195.9	4075.5	4915.6	3118.6
67.5°	202.6	203.4	190.4	179.4	183.2	203.1	858.9	1749.6	2697.6	3603.2	2260.5
70°	186.7	185.8	171.7	154.2	149.1	138.9	273.0	641.4	1289.1	1827.3	1051.3
72.5°	165.2	165.6	158.8	135.8	123.9	97.1	126.6	187.1	384.7	497.9	246.3
75°	146.5	144.5	136.1	121.6	102.1	63.9	62.8	83.4	118.5	117.8	53.2
77.5°	106.0	104.1	106.7	99.9	78.4	41.3	31.3	40.2	48.2	46.7	15.0
80°	77.7	76.5	68.9	83.0	69.3	28.3	19.5	21.5	24.9	21.1	4.6
82.5°	53.2	52.8	48.6	45.9	39.5	17.3	12.2	13.4	16.1	11.9	2.3
85°	8.4	9.7	35.2	28.0	23.4	7.6	8.4	9.2	10.7	6.5	0.8
87.5°	0.0	0.0	16.5	14.5	4.6	3.1	5.0	5.4	5.4	3.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2
2.5°	1831.0	1792.8	1722.0	1648.9	1581.3	1500.5	1445.2	1403.4	1355.3	1342.2	1370.5
5°	1843.6	1771.4	1619.1	1453.5	1297.9	1125.5	993.5	889.2	794.7	762.5	791.6
7.5°	1863.5	1756.2	1507.9	1235.1	964.4	695.2	510.9	389.7	312.5	289.5	301.8
10°	1883.4	1734.0	1379.0	976.7	606.5	338.4	220.2	175.9	159.5	156.0	158.0
12.5°	1899.9	1704.1	1221.8	694.5	324.3	181.3	144.2	136.9	134.6	134.6	135.4
15°	1909.9	1659.0	1035.6	441.7	186.7	136.9	125.8	123.6	123.6	123.9	124.7
17.5°	1908.6	1601.5	831.8	267.3	139.7	121.3	114.7	112.9	112.4	113.2	113.6
20°	1894.5	1526.6	627.1	176.4	121.6	110.6	104.1	100.6	100.2	100.9	101.7
22.5°	1867.8	1434.0	448.6	135.8	109.8	100.2	92.3	89.1	89.1	89.9	90.6
25°	1835.2	1320.8	306.7	115.2	99.1	89.1	81.5	78.7	79.5	81.5	81.8
27.5°	1794.7	1193.5	208.4	98.7	86.1	78.0	72.3	70.4	72.3	75.0	75.7
30°	1759.9	1060.8	148.8	85.3	73.1	67.3	63.9	63.9	66.5	71.6	72.6
32.5°	1733.2	932.3	114.7	75.4	63.5	58.6	56.6	58.6	62.8	67.7	68.9
35°	1729.7	826.4	97.1	67.3	56.6	51.7	51.0	54.3	58.6	62.4	63.2
37.5°	1756.2	728.5	87.6	60.8	50.5	45.9	45.2	49.3	53.5	58.1	59.3
40°	1806.2	651.6	80.8	54.7	45.6	40.5	39.0	42.1	47.8	54.0	55.5
42.5°	1871.2	588.2	73.1	48.6	40.5	33.7	31.8	35.2	41.3	47.8	49.7
45°	1933.2	533.5	64.7	41.7	34.1	26.0	25.2	29.8	32.9	39.5	41.0
47.5°	1967.2	485.3	57.4	34.1	26.4	21.1	21.1	22.2	25.2	32.9	34.4
50°	1955.7	446.7	49.7	25.2	18.3	16.1	16.1	15.8	20.3	26.4	27.6
52.5°	1932.8	424.5	42.8	19.5	12.7	11.5	10.4	11.5	14.2	16.8	17.3
55°	1929.3	420.6	35.9	15.8	8.8	7.6	5.8	5.8	5.8	5.4	4.6
57.5°	1956.1	426.7	30.3	12.7	6.5	5.0	3.1	0.0	0.0	0.0	0.0
60°	1983.6	433.3	26.0	8.8	4.6	2.7	0.4	0.0	0.0	0.0	0.0
62.5°	1937.7	418.8	21.9	5.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0
65°	1702.2	356.4	17.3	3.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1210.7	238.6	11.5	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	552.7	99.9	7.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	118.2	31.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.1	22.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.6	35.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.6	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	3.9	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)