

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: P200249

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200249
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-01-LED-E1-AFL-7050-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE 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: 5708 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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

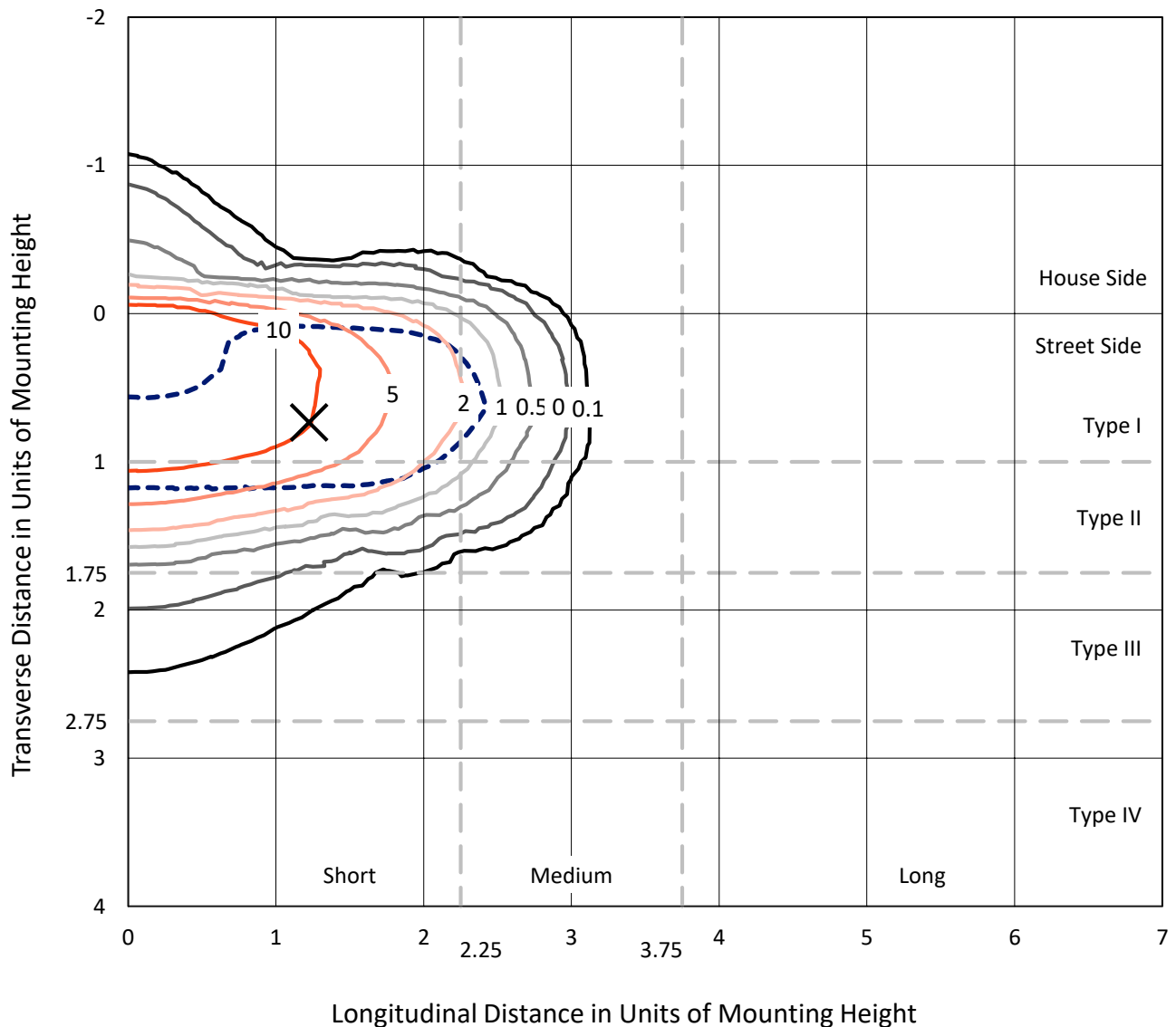


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

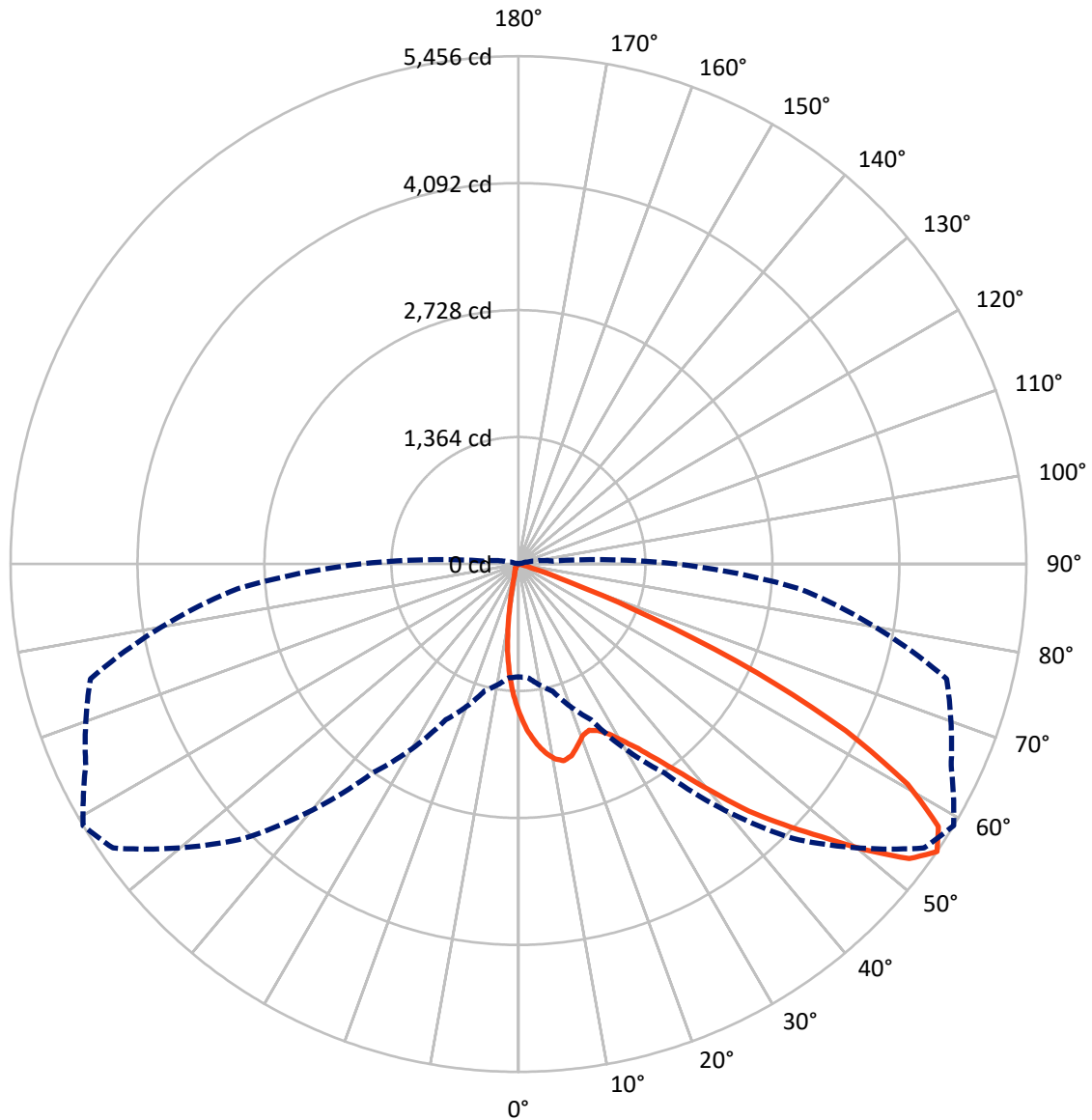


Based on 10 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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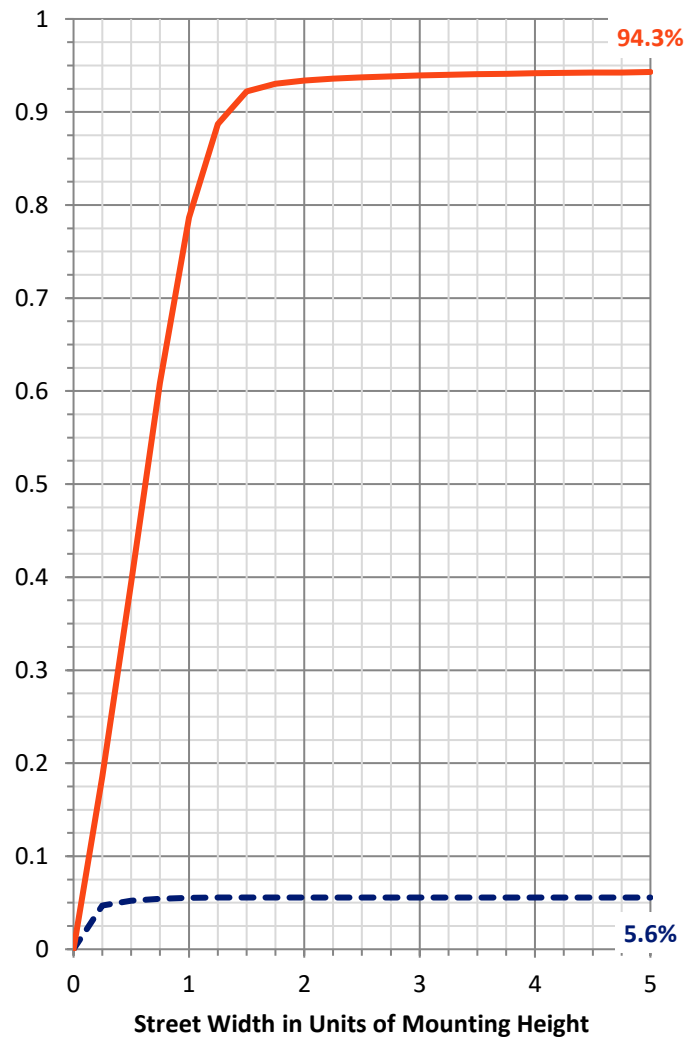
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	318.8	0.0	318.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5389.2	0.0	5389.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	5708.0	0.0	5708.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	2.4
10°-20°	322.2	5.6
20°-30°	548.3	9.6
30°-40°	943.0	16.5
40°-50°	1455.9	25.5
50°-60°	1463.6	25.6
60°-70°	750.6	13.1
70°-80°	81.3	1.4
80°-90°	8.5	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°	5708.0	100.0
0°-180°	5708.0	100.0



--- HS — SS

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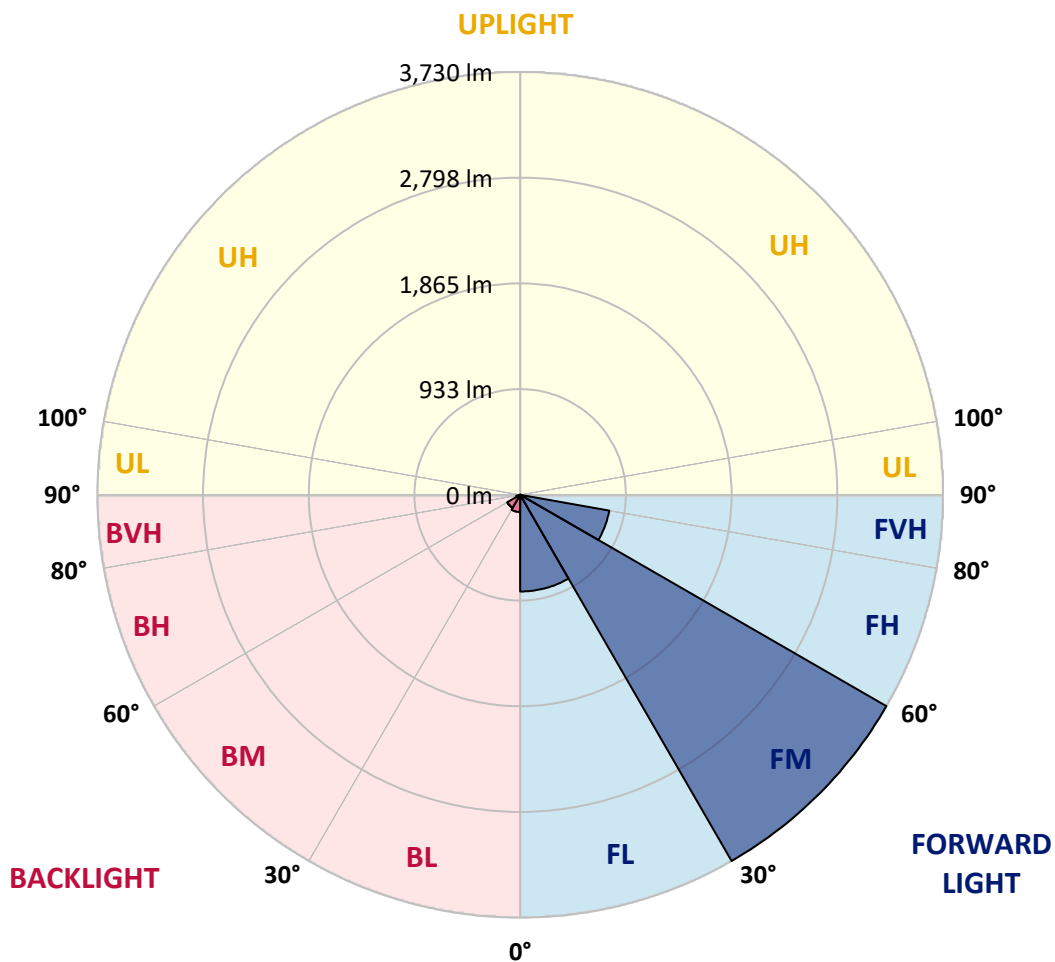
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	853.0	14.9			
FM	(30°-60°)	3730.2	65.3			
FH	(60°-80°)	797.7	14.0			G1/1800
FVH	(80°-90°)	8.3	0.1			G0/10
BL	(0°-30°)	152.2	2.7	B1/500		
BM	(30°-60°)	132.3	2.3	B0/220		
BH	(60°-80°)	34.2	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°	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8
2.5°	1901.2	1881.0	1874.9	1870.9	1852.3	1829.1	1797.4	1782.6	1752.3	1703.5	1643.5
5°	2075.3	2071.6	2058.2	2050.8	2030.9	1997.9	1947.3	1923.1	1874.9	1792.7	1685.3
7.5°	1999.2	2022.5	2041.0	2072.0	2111.0	2109.7	2067.3	2042.0	1988.1	1879.6	1731.8
10°	1705.1	1724.0	1754.3	1824.7	1968.2	2094.9	2144.7	2126.5	2083.4	1959.5	1776.6
12.5°	1647.5	1645.5	1650.9	1671.5	1746.6	1927.1	2131.6	2168.3	2159.6	2032.6	1819.0
15°	1678.2	1675.8	1675.2	1682.2	1700.4	1776.6	2032.9	2138.3	2206.0	2100.3	1855.0
17.5°	1764.1	1754.0	1748.6	1742.9	1737.5	1756.3	1914.3	2054.5	2213.1	2159.6	1885.0
20°	1911.3	1894.5	1874.6	1842.2	1811.9	1802.5	1864.5	1968.2	2187.9	2204.7	1904.6
22.5°	2096.2	2074.7	2040.3	1981.4	1919.7	1884.0	1889.1	1940.9	2150.1	2253.9	1913.7
25°	2304.1	2276.4	2230.6	2148.8	2058.2	1994.8	1961.8	1980.0	2132.9	2311.5	1924.1
27.5°	2526.7	2496.1	2436.1	2324.6	2221.9	2136.3	2068.9	2066.6	2162.2	2386.9	1940.9
30°	2747.4	2742.6	2664.5	2546.6	2410.5	2306.4	2209.4	2196.9	2244.1	2491.4	1974.3
32.5°	3041.8	3006.4	2910.7	2789.5	2632.5	2507.5	2392.7	2363.7	2369.7	2613.0	2025.8
35°	3413.0	3374.2	3239.5	3072.1	2896.6	2749.0	2622.1	2582.6	2567.8	2812.0	2112.7
37.5°	3652.8	3652.1	3567.6	3397.1	3208.8	3046.1	2908.0	2861.9	2831.9	3052.5	2247.5
40°	3659.2	3675.0	3686.2	3684.5	3550.4	3400.5	3277.9	3221.0	3151.2	3373.9	2421.6
42.5°	3462.8	3503.6	3601.6	3768.0	3847.5	3787.9	3684.5	3628.6	3524.8	3717.8	2633.8
45°	3197.4	3225.7	3397.1	3703.7	4008.5	4171.9	4093.1	3993.0	3856.3	4076.6	2824.2
47.5°	3078.5	3083.5	3194.4	3530.9	4020.7	4486.5	4534.4	4371.7	4157.4	4365.6	2973.1
50°	2723.1	2732.2	2885.1	3231.4	3878.5	4635.1	4977.7	4823.4	4485.9	4588.3	3027.3
52.5°	2052.4	2065.2	2259.3	2739.3	3487.8	4571.7	5295.0	5257.6	4845.6	4697.1	3030.3
55°	1211.0	1227.8	1413.1	1843.9	2743.3	4168.9	5318.5	5456.0	5129.6	4761.4	3025.6
57.5°	565.6	577.4	683.5	949.9	1706.2	3294.7	4963.5	5319.9	5286.2	4795.4	3058.9
60°	300.5	303.8	329.4	411.3	771.1	2089.2	4270.6	4803.8	5143.4	4842.6	3099.7
62.5°	229.7	230.7	229.4	239.2	324.1	927.4	3228.0	3949.2	4568.4	4807.2	3054.6
65°	199.1	200.8	191.3	189.0	207.8	330.8	1917.7	2815.1	3589.8	4329.9	2747.0
67.5°	178.5	179.2	167.8	158.0	161.4	178.9	756.6	1541.1	2376.2	3173.8	1991.1
70°	164.4	163.7	151.2	135.8	131.4	122.3	240.5	564.9	1135.5	1609.5	926.0
72.5°	145.5	145.9	139.8	119.6	109.1	85.6	111.5	164.7	338.9	438.6	216.9
75°	129.0	127.3	119.9	107.1	89.9	56.3	55.2	73.4	104.4	103.8	46.8
77.5°	93.3	91.6	94.0	87.9	69.1	36.4	27.6	35.4	42.4	41.1	13.1
80°	68.4	67.4	60.6	73.1	61.0	24.9	17.2	18.9	21.9	18.5	4.0
82.5°	46.8	46.5	42.8	40.4	34.7	15.2	10.8	11.8	14.1	10.4	2.0
85°	7.4	8.4	31.0	24.6	20.5	6.7	7.4	8.1	9.4	5.7	0.7
87.5°	0.0	0.0	14.5	12.8	4.0	2.7	4.4	4.7	4.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8
2.5°	1612.8	1579.2	1516.8	1452.5	1392.9	1321.8	1273.0	1236.2	1193.8	1182.3	1207.3
5°	1624.0	1560.3	1426.2	1280.4	1143.3	991.4	875.1	783.2	700.0	671.7	697.3
7.5°	1641.5	1546.8	1328.2	1088.0	849.5	612.4	450.0	343.3	275.2	255.0	265.8
10°	1659.0	1527.3	1214.7	860.3	534.2	298.1	194.0	155.0	140.5	137.4	139.1
12.5°	1673.5	1501.0	1076.2	611.7	285.7	159.7	127.0	120.6	118.6	118.6	119.2
15°	1682.2	1461.3	912.2	389.1	164.4	120.6	110.8	108.8	108.8	109.1	109.8
17.5°	1681.2	1410.7	732.7	235.5	123.0	106.8	101.1	99.4	99.0	99.7	100.0
20°	1668.8	1344.7	552.4	155.3	107.1	97.4	91.6	88.6	88.3	88.9	89.6
22.5°	1645.2	1263.2	395.1	119.6	96.7	88.3	81.2	78.5	78.5	79.2	79.8
25°	1616.6	1163.5	270.2	101.4	87.2	78.5	71.7	69.4	70.1	71.7	72.1
27.5°	1580.8	1051.3	183.6	86.9	75.8	68.7	63.7	62.0	63.7	66.0	66.7
30°	1550.2	934.4	131.0	75.1	64.3	59.3	56.3	56.3	58.6	63.0	64.0
32.5°	1526.6	821.2	101.1	66.4	55.9	51.5	49.9	51.5	55.2	59.6	60.6
35°	1523.6	727.9	85.6	59.3	49.9	45.5	44.8	47.8	51.5	54.9	55.6
37.5°	1546.8	641.7	77.1	53.6	44.5	40.4	39.7	43.5	47.2	51.2	52.2
40°	1590.9	574.0	71.1	48.2	40.1	35.7	34.4	37.1	42.1	47.5	48.8
42.5°	1648.2	518.1	64.3	42.8	35.7	29.6	28.0	31.0	36.4	42.1	43.8
45°	1702.8	469.9	56.9	36.7	30.0	22.9	22.2	26.3	29.0	34.7	36.0
47.5°	1732.8	427.5	50.5	30.0	23.2	18.5	18.5	19.5	22.2	29.0	30.3
50°	1722.7	393.4	43.8	22.2	16.2	14.1	14.1	13.8	17.9	23.2	24.3
52.5°	1702.4	373.9	37.7	17.2	11.1	10.1	9.1	10.1	12.5	14.8	15.2
55°	1699.4	370.5	31.7	13.8	7.7	6.7	5.1	5.1	5.1	4.7	4.0
57.5°	1723.0	375.9	26.6	11.1	5.7	4.4	2.7	0.0	0.0	0.0	0.0
60°	1747.2	381.7	22.9	7.7	4.0	2.4	0.3	0.0	0.0	0.0	0.0
62.5°	1706.8	368.9	19.2	4.7	3.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	1499.3	313.9	15.2	3.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1066.5	210.2	10.1	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	486.8	87.9	6.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	104.1	27.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.2	19.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.7	31.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.7	3.4	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)