

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: P269939

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269939  
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-7027-1200-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 2700K, 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: 4875.3 lumens  
Efficiency: N/A  
Efficacy: 72.8 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

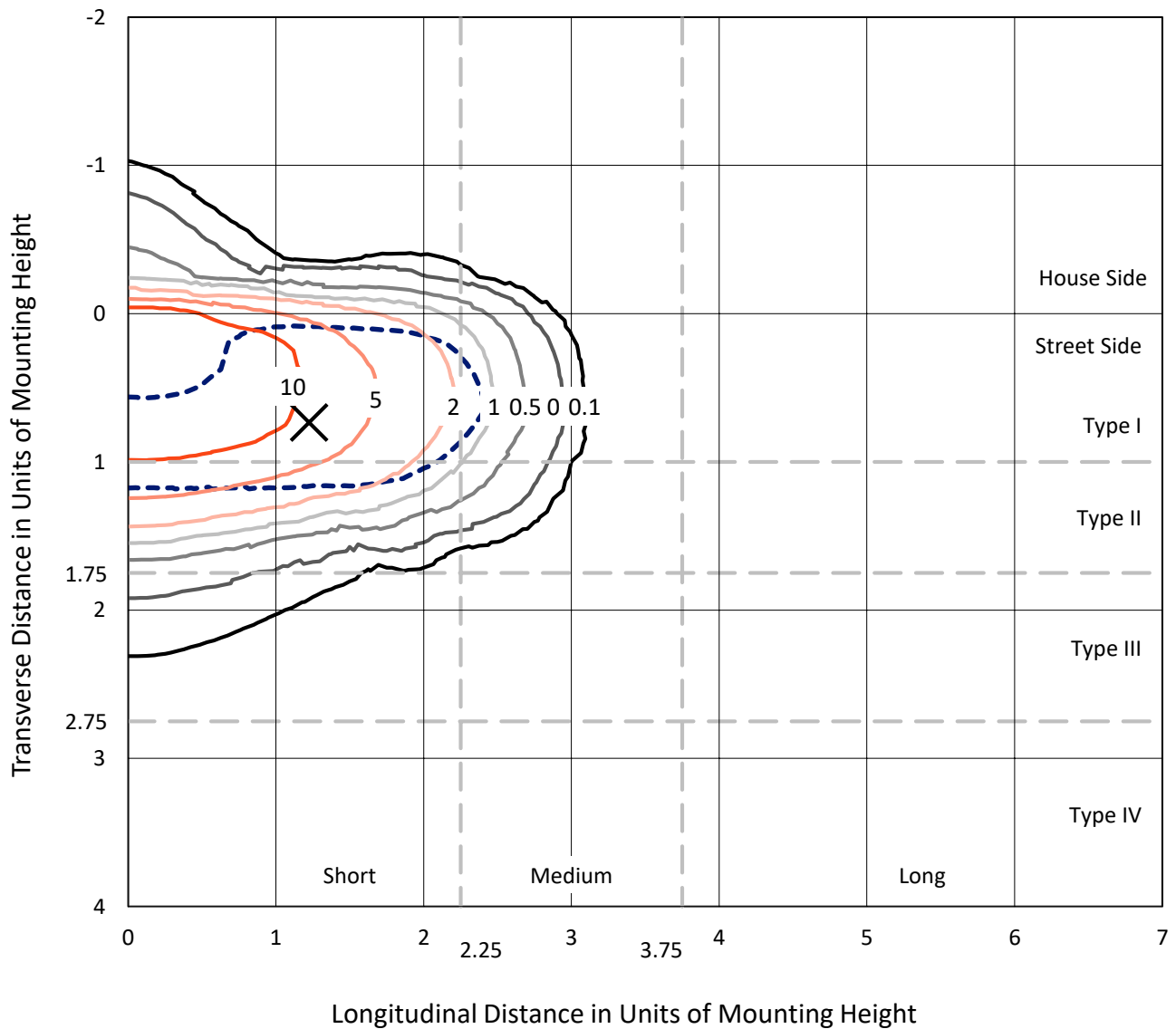


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

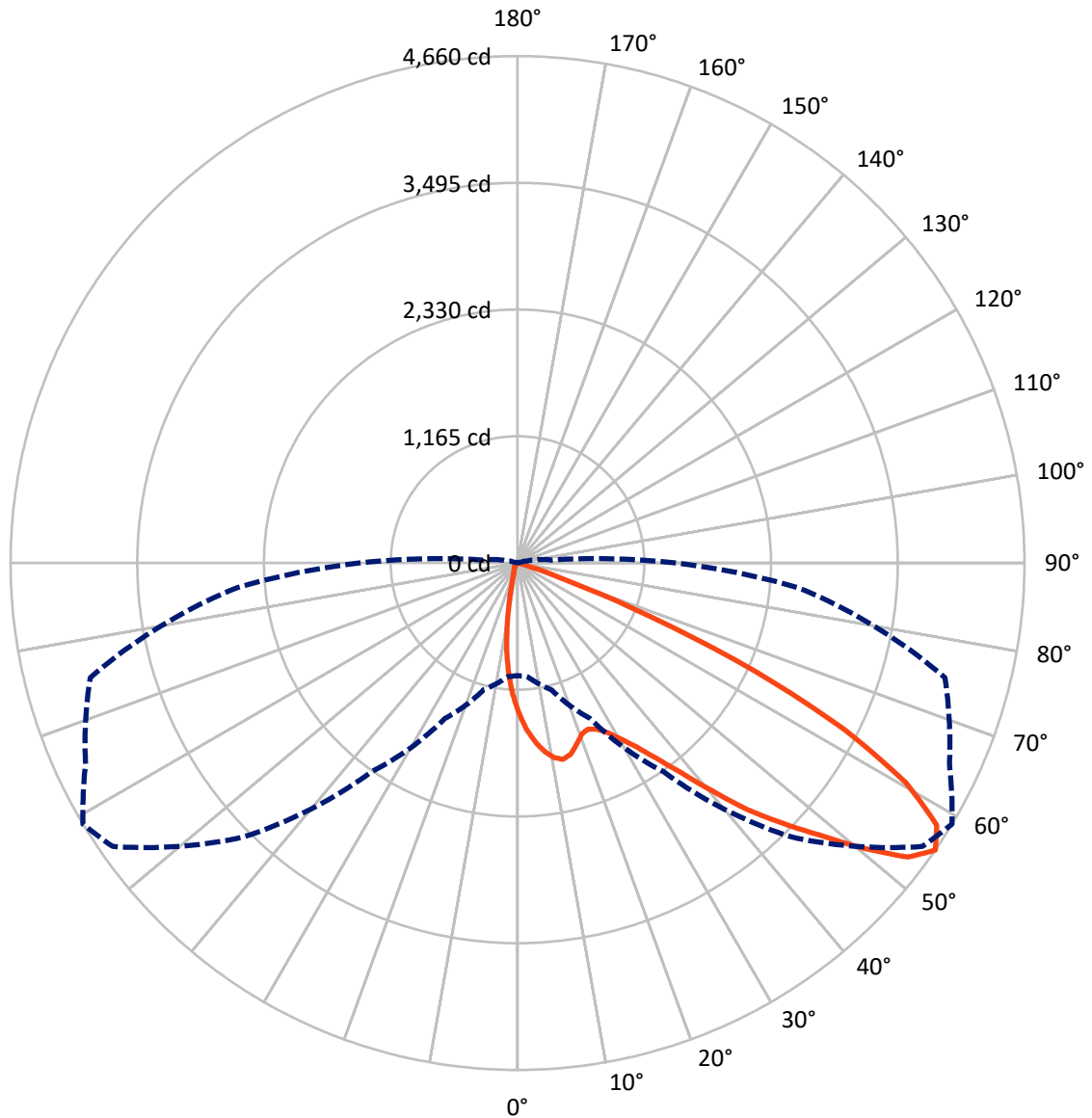


Based on 10 foot mounting height. Maximum calculated value = 17.1 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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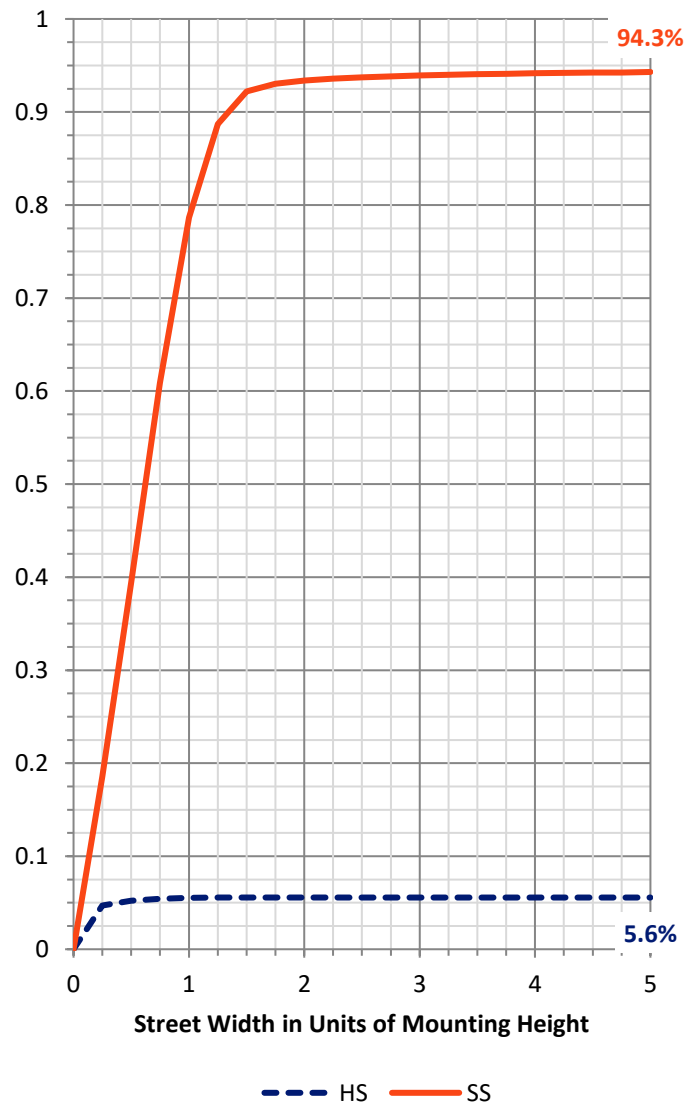
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	272.3	0.0	272.3
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	4603.0	0.0	4603.0
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	4875.3	0.0	4875.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.0	2.4
10°-20°	275.2	5.6
20°-30°	468.3	9.6
30°-40°	805.4	16.5
40°-50°	1243.5	25.5
50°-60°	1250.1	25.6
60°-70°	641.1	13.1
70°-80°	69.5	1.4
80°-90°	7.3	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°	4875.3	100.0
0°-180°	4875.3	100.0



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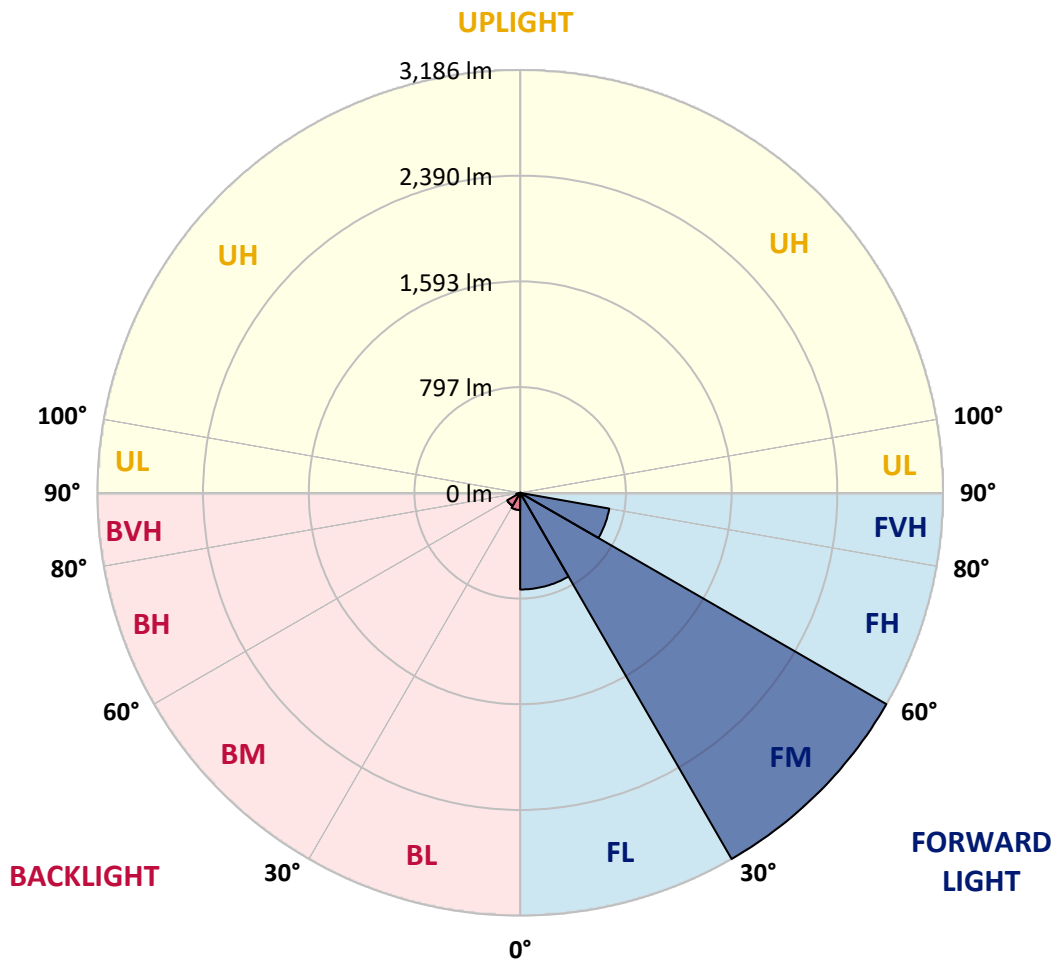
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.5	14.9			
FM (30°-60°)	3186.0	65.3			
FH (60°-80°)	681.4	14.0			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	130.0	2.7	B1/500		
BM (30°-60°)	113.0	2.3	B0/220		
BH (60°-80°)	29.2	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°	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4
2.5°	1623.9	1606.5	1601.4	1598.0	1582.2	1562.2	1535.3	1522.6	1496.7	1455.0	1403.8
5°	1772.6	1769.4	1758.0	1751.6	1734.6	1706.4	1663.3	1642.6	1601.4	1531.3	1439.4
7.5°	1707.6	1727.4	1743.3	1769.8	1803.1	1801.9	1765.7	1744.1	1698.2	1605.5	1479.1
10°	1456.4	1472.6	1498.4	1558.6	1681.2	1789.3	1831.8	1816.3	1779.5	1673.6	1517.4
12.5°	1407.2	1405.5	1410.2	1427.7	1491.8	1646.1	1820.7	1852.0	1844.5	1736.1	1553.7
15°	1433.3	1431.4	1430.7	1436.8	1452.4	1517.4	1736.3	1826.4	1884.3	1793.9	1584.4
17.5°	1506.8	1498.1	1493.5	1488.7	1484.0	1500.2	1635.1	1754.7	1890.3	1844.5	1610.0
20°	1632.5	1618.1	1601.1	1573.5	1547.6	1539.6	1592.5	1681.2	1868.7	1883.1	1626.7
22.5°	1790.5	1772.0	1742.7	1692.3	1639.7	1609.1	1613.5	1657.8	1836.5	1925.1	1634.6
25°	1968.0	1944.4	1905.3	1835.3	1758.0	1703.8	1675.6	1691.1	1821.9	1974.3	1643.4
27.5°	2158.2	2131.9	2080.7	1985.5	1897.8	1824.7	1767.1	1765.1	1846.8	2038.7	1657.8
30°	2346.6	2342.5	2275.8	2175.2	2058.9	1970.0	1887.2	1876.5	1916.8	2128.0	1686.3
32.5°	2598.1	2567.8	2486.1	2382.6	2248.5	2141.7	2043.6	2018.9	2024.1	2231.7	1730.3
35°	2915.1	2882.0	2767.0	2624.0	2474.0	2348.1	2239.6	2206.0	2193.3	2401.9	1804.5
37.5°	3120.0	3119.5	3047.1	2901.6	2740.7	2601.8	2483.8	2444.5	2418.8	2607.3	1919.7
40°	3125.4	3138.9	3148.5	3147.0	3032.5	2904.5	2799.7	2751.1	2691.5	2881.7	2068.3
42.5°	2957.8	2992.5	3076.2	3218.4	3286.3	3235.3	3147.0	3099.2	3010.6	3175.5	2249.6
45°	2731.0	2755.1	2901.6	3163.5	3423.8	3563.4	3496.0	3410.5	3293.8	3481.9	2412.2
47.5°	2629.4	2633.7	2728.4	3015.8	3434.2	3832.1	3872.9	3734.0	3551.0	3728.8	2539.4
50°	2325.9	2333.7	2464.3	2760.0	3312.7	3958.9	4251.6	4119.8	3831.5	3918.9	2585.7
52.5°	1753.0	1763.9	1929.6	2339.6	2979.0	3904.8	4522.6	4490.7	4138.8	4011.9	2588.3
55°	1034.3	1048.7	1207.0	1574.9	2343.1	3560.8	4542.7	4660.1	4381.3	4066.8	2584.2
57.5°	483.1	493.2	583.7	811.3	1457.3	2814.2	4239.5	4543.8	4515.1	4095.9	2612.7
60°	256.6	259.5	281.3	351.3	658.6	1784.4	3647.6	4103.1	4393.2	4136.2	2647.6
62.5°	196.3	197.1	195.9	204.3	276.9	792.0	2757.2	3373.2	3902.1	4106.0	2609.0
65°	170.0	171.5	163.4	161.4	177.5	282.5	1637.9	2404.4	3066.2	3698.2	2346.3
67.5°	152.4	153.0	143.3	135.0	137.8	152.7	646.2	1316.4	2029.5	2710.8	1700.7
70°	140.4	139.8	129.2	116.0	112.2	104.4	205.4	482.5	969.9	1374.7	790.9
72.5°	124.2	124.6	119.5	102.1	93.2	73.0	95.2	140.7	289.4	374.7	185.2
75°	110.2	108.7	102.5	91.4	76.8	48.1	47.2	62.7	89.1	88.6	40.0
77.5°	79.7	78.2	80.3	75.1	58.9	31.1	23.6	30.2	36.3	35.1	11.2
80°	58.4	57.5	51.8	62.4	52.1	21.3	14.6	16.1	18.7	15.8	3.5
82.5°	40.0	39.8	36.6	34.6	29.6	12.9	9.2	10.1	12.0	8.9	1.7
85°	6.4	7.3	26.4	21.0	17.5	5.7	6.4	6.9	8.0	4.9	0.5
87.5°	0.0	0.0	12.3	10.9	3.5	2.3	3.8	4.0	4.0	2.6	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°	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4	1372.4
2.5°	1377.6	1348.7	1295.6	1240.6	1189.6	1129.0	1087.3	1056.0	1019.7	1009.9	1031.2
5°	1387.1	1332.7	1218.2	1093.6	976.5	846.7	747.5	669.0	597.9	573.7	595.6
7.5°	1402.0	1321.1	1134.5	929.3	725.7	523.1	384.4	293.2	235.0	217.7	227.0
10°	1417.0	1304.4	1037.5	734.8	456.2	254.6	165.7	132.4	119.9	117.4	118.8
12.5°	1429.3	1282.1	919.2	522.5	244.0	136.4	108.4	103.0	101.3	101.3	101.9
15°	1436.8	1248.1	779.1	332.3	140.4	103.0	94.7	92.9	92.9	93.2	93.8
17.5°	1435.9	1205.0	625.8	201.0	105.0	91.2	86.3	84.9	84.6	85.2	85.5
20°	1425.3	1148.6	471.8	132.7	91.4	83.2	78.2	75.6	75.4	75.9	76.5
22.5°	1405.2	1078.9	337.5	102.1	82.6	75.4	69.3	67.0	67.0	67.6	68.2
25°	1380.7	993.8	230.8	86.7	74.5	67.0	61.3	59.2	59.8	61.3	61.5
27.5°	1350.2	897.9	156.8	74.2	64.8	58.7	54.4	53.0	54.4	56.3	57.0
30°	1324.1	798.1	111.9	64.1	55.0	50.7	48.1	48.1	50.0	53.8	54.7
32.5°	1303.9	701.5	86.3	56.6	47.8	44.0	42.6	44.0	47.2	50.9	51.8
35°	1301.3	621.7	73.0	50.7	42.6	38.9	38.3	40.8	44.0	46.9	47.4
37.5°	1321.1	548.1	65.9	45.7	38.0	34.6	34.0	37.2	40.2	43.7	44.6
40°	1358.9	490.2	60.7	41.1	34.2	30.5	29.4	31.6	36.0	40.5	41.7
42.5°	1407.8	442.5	55.0	36.6	30.5	25.2	23.9	26.4	31.1	36.0	37.5
45°	1454.4	401.4	48.6	31.4	25.6	19.6	19.0	22.5	24.7	29.6	30.8
47.5°	1480.0	365.1	43.1	25.6	19.9	15.8	15.8	16.7	19.0	24.7	25.9
50°	1471.4	336.1	37.5	19.0	13.8	12.0	12.0	11.8	15.3	19.9	20.8
52.5°	1454.1	319.3	32.2	14.6	9.4	8.6	7.8	8.6	10.6	12.7	12.9
55°	1451.5	316.5	27.0	11.8	6.6	5.7	4.3	4.3	4.3	4.0	3.5
57.5°	1471.7	321.1	22.7	9.4	4.9	3.8	2.3	0.0	0.0	0.0	0.0
60°	1492.4	326.0	19.6	6.6	3.5	2.1	0.3	0.0	0.0	0.0	0.0
62.5°	1457.9	315.0	16.4	4.0	2.6	0.9	0.0	0.0	0.0	0.0	0.0
65°	1280.6	268.1	12.9	2.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	910.9	179.6	8.6	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	415.7	75.1	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	88.8	23.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.1	17.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.7	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.5	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.9	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)