

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: P269940

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269940  
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-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA 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: 4521.7 lumens  
Efficiency: N/A  
Efficacy: 76.6 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 - G0

Input Watts (W): 59  
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

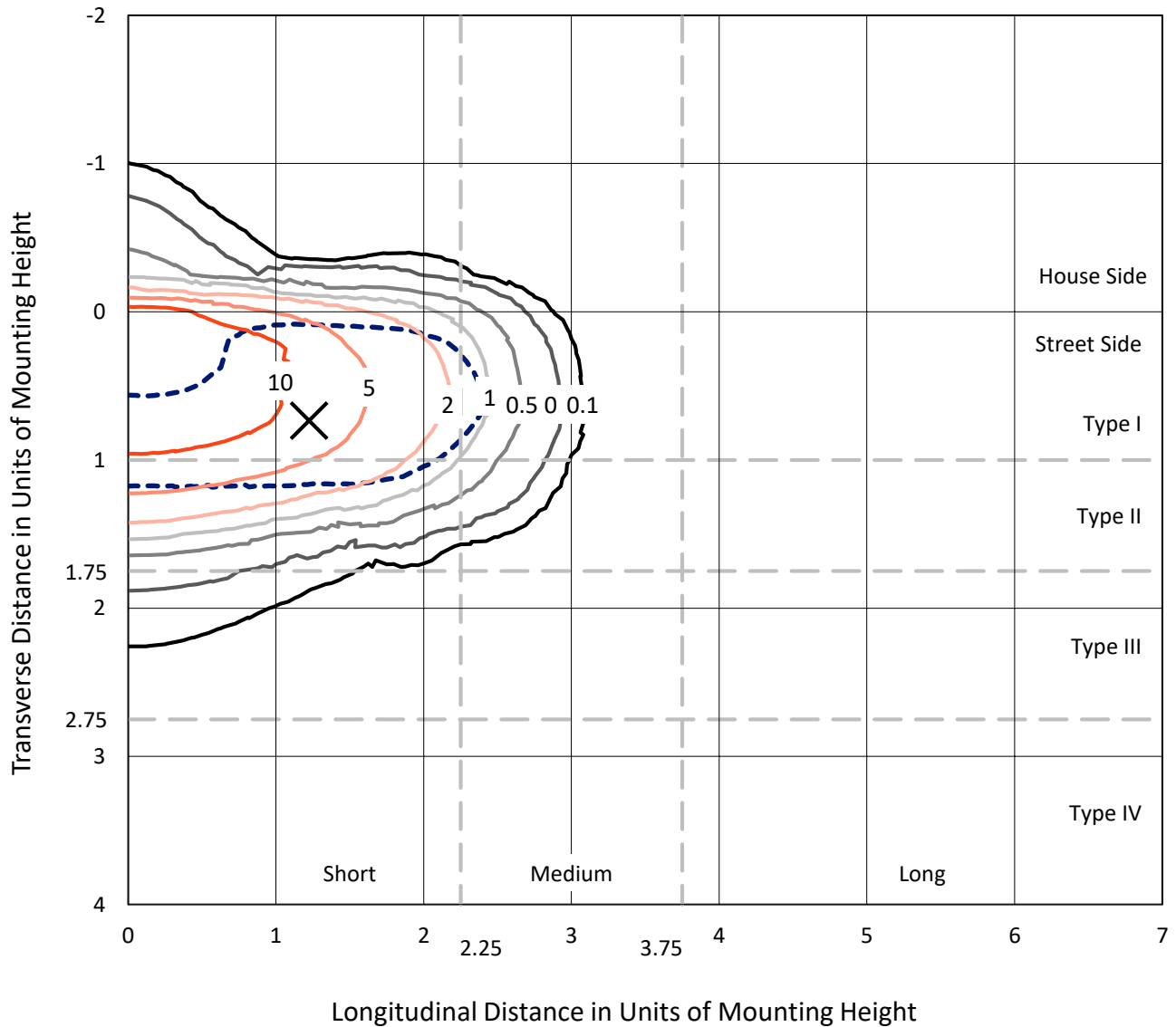


REPORT NUMBER: P269940

CATALOG NUMBER: GPC-AF-01-LED-E1-AFL-7027-HSS

### Iso-Footcandle Lines of Horizontal Illumination

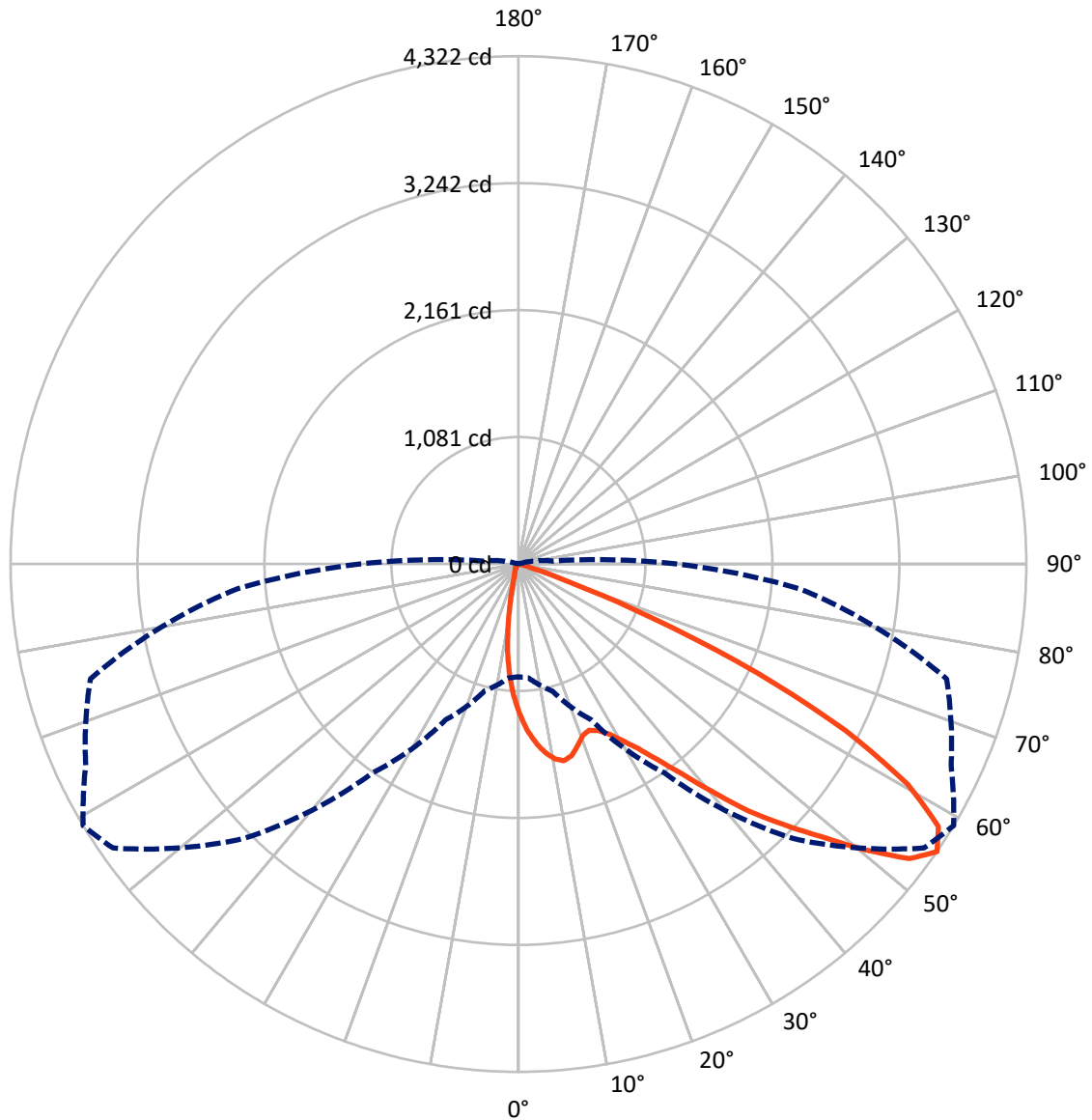
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P269940  
CATALOG NUMBER: GPC-AF-01-LED-E1-AFL-7027-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269940

CATALOG NUMBER: GPC-AF-01-LED-E1-AFL-7027-HSS

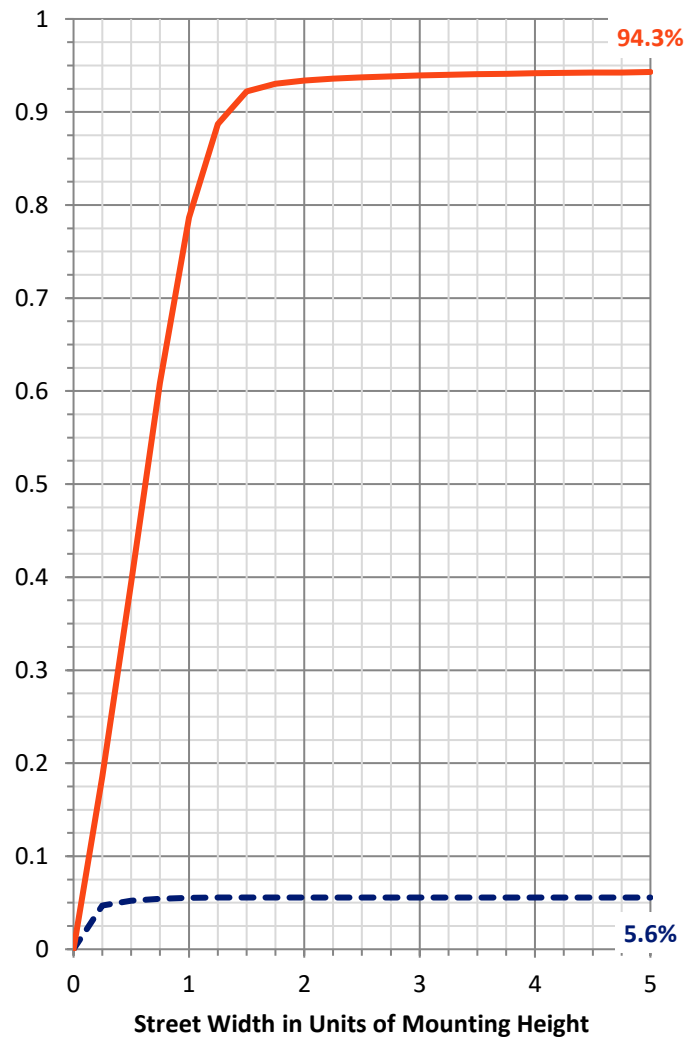
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	252.6	0.0	252.6
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	4269.1	0.0	4269.1
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	4521.7	0.0	4521.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.6	2.4
10°-20°	255.3	5.6
20°-30°	434.4	9.6
30°-40°	747.0	16.5
40°-50°	1153.3	25.5
50°-60°	1159.4	25.6
60°-70°	594.5	13.1
70°-80°	64.4	1.4
80°-90°	6.7	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°	4521.7	100.0
0°-180°	4521.7	100.0



--- HS    — SS

REPORT NUMBER: P269940

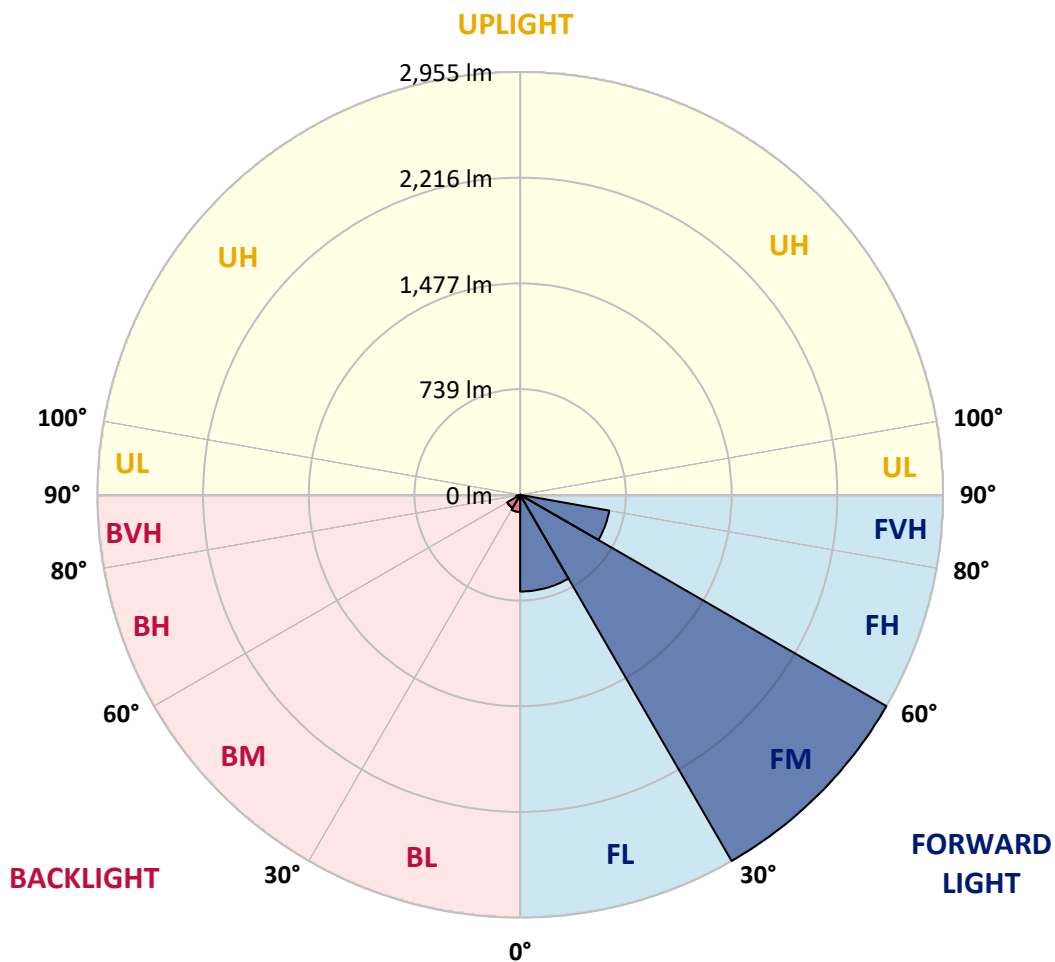
CATALOG NUMBER: GPC-AF-01-LED-E1-AFL-7027-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.7	14.9			
FM	(30°-60°)	2954.9	65.3			
FH	(60°-80°)	631.9	14.0			G0/660
FVH	(80°-90°)	6.6	0.1			G0/10
BL	(0°-30°)	120.5	2.7	B1/500		
BM	(30°-60°)	104.8	2.3	B0/220		
BH	(60°-80°)	27.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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-G0**

Type II Short





REPORT NUMBER: P269940

CATALOG NUMBER: GPC-AF-01-LED-E1-AFL-7027-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9
2.5°	1506.1	1490.1	1485.3	1482.1	1467.4	1449.0	1423.9	1412.1	1388.2	1349.4	1302.0
5°	1644.0	1641.1	1630.5	1624.6	1608.8	1582.6	1542.6	1523.3	1485.3	1420.1	1335.1
7.5°	1583.7	1602.1	1616.8	1641.4	1672.4	1671.2	1637.6	1617.6	1574.9	1489.0	1371.8
10°	1350.7	1365.8	1389.7	1445.6	1559.2	1659.4	1699.0	1684.6	1650.5	1552.2	1407.4
12.5°	1305.1	1303.5	1307.8	1324.1	1383.6	1526.6	1688.5	1717.6	1710.7	1610.1	1440.9
15°	1329.4	1327.5	1326.9	1332.6	1347.0	1407.4	1610.4	1693.9	1747.6	1663.8	1469.4
17.5°	1397.5	1389.5	1385.1	1380.7	1376.4	1391.4	1516.5	1627.5	1753.1	1710.7	1493.3
20°	1514.1	1500.7	1485.0	1459.3	1435.3	1427.9	1477.0	1559.2	1733.1	1746.5	1508.8
22.5°	1660.5	1643.4	1616.3	1569.6	1520.7	1492.4	1496.4	1537.5	1703.2	1785.4	1515.9
25°	1825.1	1803.3	1767.1	1702.2	1630.5	1580.3	1554.1	1568.5	1689.6	1831.0	1524.2
27.5°	2001.7	1977.3	1929.7	1841.4	1760.0	1692.2	1639.0	1637.2	1712.9	1890.8	1537.5
30°	2176.4	2172.6	2110.7	2017.4	1909.5	1827.1	1750.2	1740.3	1777.7	1973.5	1563.9
32.5°	2409.7	2381.5	2305.8	2209.7	2085.3	1986.4	1895.3	1872.4	1877.3	2070.0	1604.8
35°	2703.7	2672.9	2566.2	2433.6	2294.6	2177.8	2077.2	2045.9	2034.1	2227.5	1673.6
37.5°	2893.6	2893.1	2826.2	2691.1	2541.9	2413.0	2303.7	2267.1	2243.3	2418.1	1780.4
40°	2898.7	2911.2	2920.1	2918.8	2812.6	2693.7	2596.6	2551.5	2496.3	2672.6	1918.3
42.5°	2743.2	2775.5	2853.0	2984.9	3047.9	3000.7	2918.8	2874.4	2792.2	2945.2	2086.5
45°	2533.0	2555.3	2691.1	2934.0	3175.4	3304.9	3242.4	3163.1	3054.7	3229.3	2237.1
47.5°	2438.7	2442.8	2530.4	2797.1	3185.0	3554.1	3592.0	3463.1	3293.4	3458.2	2355.1
50°	2157.2	2164.3	2285.5	2559.8	3072.5	3671.7	3943.1	3820.9	3553.5	3634.6	2398.1
52.5°	1625.8	1636.1	1789.8	2169.9	2762.8	3621.5	4194.5	4164.9	3838.5	3720.9	2400.5
55°	959.3	972.7	1119.4	1460.7	2173.2	3302.4	4213.2	4322.0	4063.5	3771.9	2396.8
57.5°	448.1	457.3	541.4	752.5	1351.6	2609.9	3931.9	4214.3	4187.5	3798.8	2423.2
60°	238.1	240.7	261.0	325.8	610.8	1654.9	3383.0	3805.4	4074.4	3836.1	2455.4
62.5°	181.9	182.7	181.6	189.5	256.6	734.6	2557.1	3128.4	3618.9	3808.2	2419.8
65°	157.7	159.0	151.5	149.7	164.6	262.0	1519.2	2230.0	2843.8	3430.0	2176.1
67.5°	141.5	141.9	132.9	125.1	127.7	141.8	599.3	1220.7	1882.3	2514.1	1577.3
70°	130.3	129.6	119.8	107.5	104.1	96.8	190.5	447.4	899.6	1275.0	733.6
72.5°	115.3	115.5	110.8	94.7	86.4	67.8	88.4	130.4	268.5	347.5	171.8
75°	102.1	100.9	95.0	84.9	71.2	44.6	43.7	58.2	82.7	82.1	37.1
77.5°	73.9	72.7	74.5	69.7	54.6	28.8	21.9	27.9	33.6	32.6	10.4
80°	54.2	53.4	48.0	57.9	48.2	19.8	13.7	14.9	17.3	14.7	3.2
82.5°	37.1	36.8	33.9	32.0	27.5	11.9	8.5	9.3	11.1	8.3	1.5
85°	5.8	6.6	24.6	19.5	16.3	5.3	5.8	6.4	7.5	4.5	0.4
87.5°	0.0	0.0	11.5	10.2	3.2	2.2	3.5	3.8	3.8	2.3	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: P269940

CATALOG NUMBER: GPC-AF-01-LED-E1-AFL-7027-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9
2.5°	1277.6	1251.0	1201.7	1150.5	1103.4	1047.1	1008.3	979.3	945.6	936.7	956.3
5°	1286.5	1236.0	1129.8	1014.2	905.8	785.3	693.2	620.4	554.6	532.1	552.4
7.5°	1300.3	1225.4	1052.2	862.0	673.0	485.2	356.4	271.8	218.0	201.9	210.6
10°	1314.2	1209.8	962.3	681.5	423.2	236.2	153.7	122.8	111.3	108.9	110.2
12.5°	1325.7	1189.0	852.5	484.5	226.4	126.5	100.6	95.5	94.0	94.0	94.4
15°	1332.6	1157.6	722.5	308.2	130.3	95.5	87.8	86.1	86.1	86.4	87.0
17.5°	1331.7	1117.5	580.3	186.5	97.3	84.6	80.0	78.7	78.4	79.1	79.2
20°	1321.9	1065.2	437.7	123.0	84.9	77.2	72.7	70.2	69.9	70.4	71.0
22.5°	1303.3	1000.6	313.0	94.7	76.5	69.9	64.3	62.2	62.2	62.7	63.2
25°	1280.5	921.8	213.9	80.3	69.1	62.2	56.9	54.9	55.5	56.9	57.1
27.5°	1252.2	832.8	145.4	68.8	60.0	54.4	50.5	49.0	50.5	52.3	52.8
30°	1228.1	740.3	103.8	59.5	50.9	47.0	44.6	44.6	46.4	49.9	50.8
32.5°	1209.3	650.6	80.0	52.6	44.2	40.9	39.4	40.9	43.7	47.3	48.0
35°	1207.0	576.6	67.8	47.0	39.4	36.0	35.6	37.9	40.9	43.5	44.0
37.5°	1225.4	508.4	61.2	42.4	35.3	32.0	31.5	34.5	37.4	40.6	41.3
40°	1260.3	454.7	56.4	38.2	31.8	28.2	27.2	29.4	33.3	37.5	38.6
42.5°	1305.6	410.3	50.9	33.9	28.2	23.4	22.2	24.6	28.8	33.3	34.7
45°	1348.8	372.3	45.0	29.0	23.7	18.1	17.5	20.8	22.9	27.5	28.6
47.5°	1372.6	338.7	40.1	23.7	18.4	14.7	14.7	15.5	17.5	22.9	24.1
50°	1364.6	311.7	34.7	17.5	12.8	11.1	11.1	10.9	14.2	18.4	19.3
52.5°	1348.6	296.3	30.0	13.7	8.9	8.1	7.1	8.1	9.9	11.8	11.9
55°	1346.2	293.6	25.2	10.9	6.2	5.3	4.0	4.0	4.0	3.8	3.2
57.5°	1365.0	297.8	21.1	8.9	4.5	3.5	2.2	0.0	0.0	0.0	0.0
60°	1384.1	302.3	18.1	6.2	3.2	1.8	0.3	0.0	0.0	0.0	0.0
62.5°	1352.0	292.2	15.2	3.8	2.3	0.8	0.0	0.0	0.0	0.0	0.0
65°	1187.6	248.7	11.9	2.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	844.9	166.5	8.1	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	385.6	69.7	5.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	82.5	21.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.8	15.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.3	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.2	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.6	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)