

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: P269937

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269937  
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-7027-800-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 2700K, 800mA 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: 3652.1 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B0 - U0 - G0

Input Watts (W): 44  
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

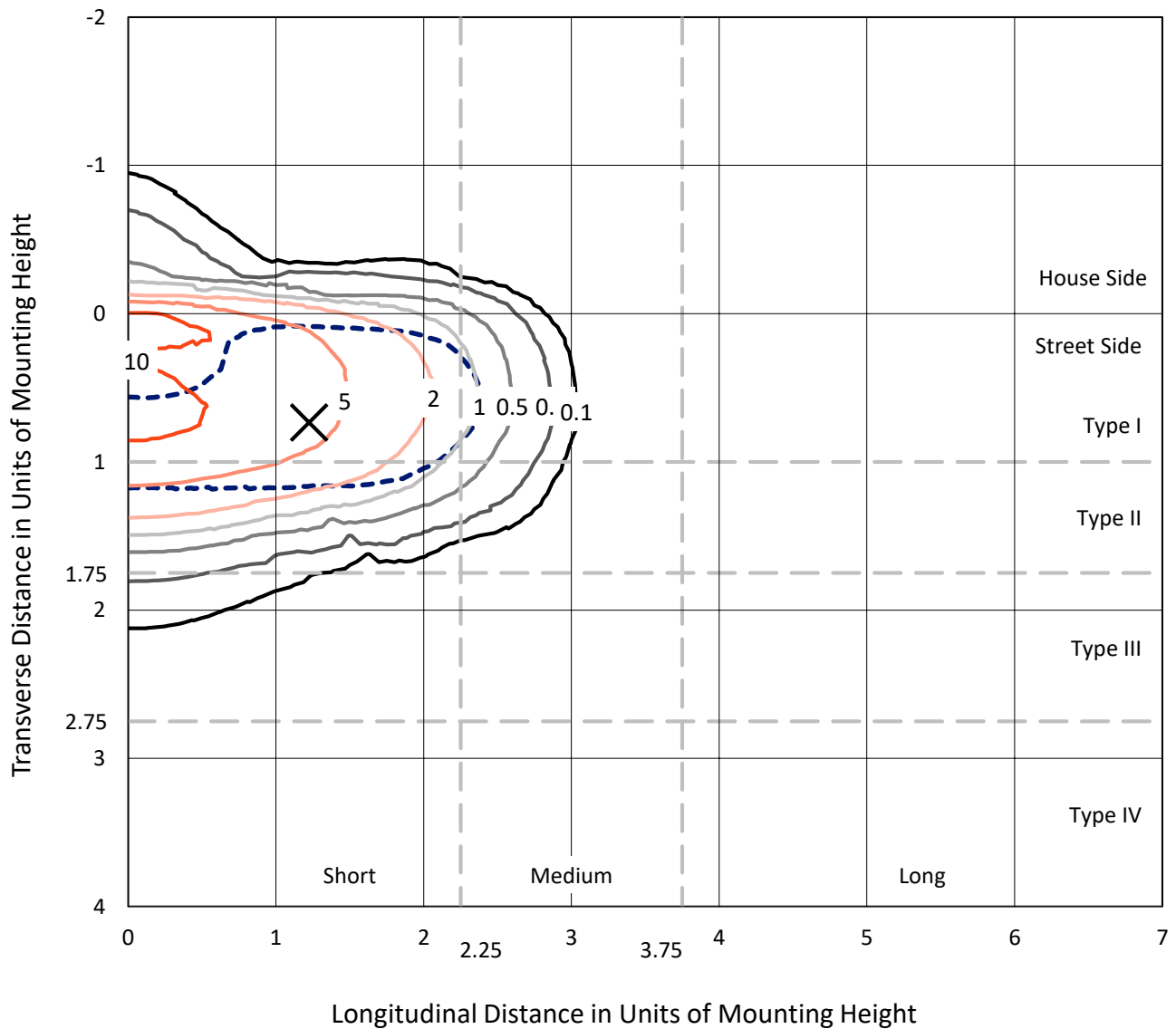


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

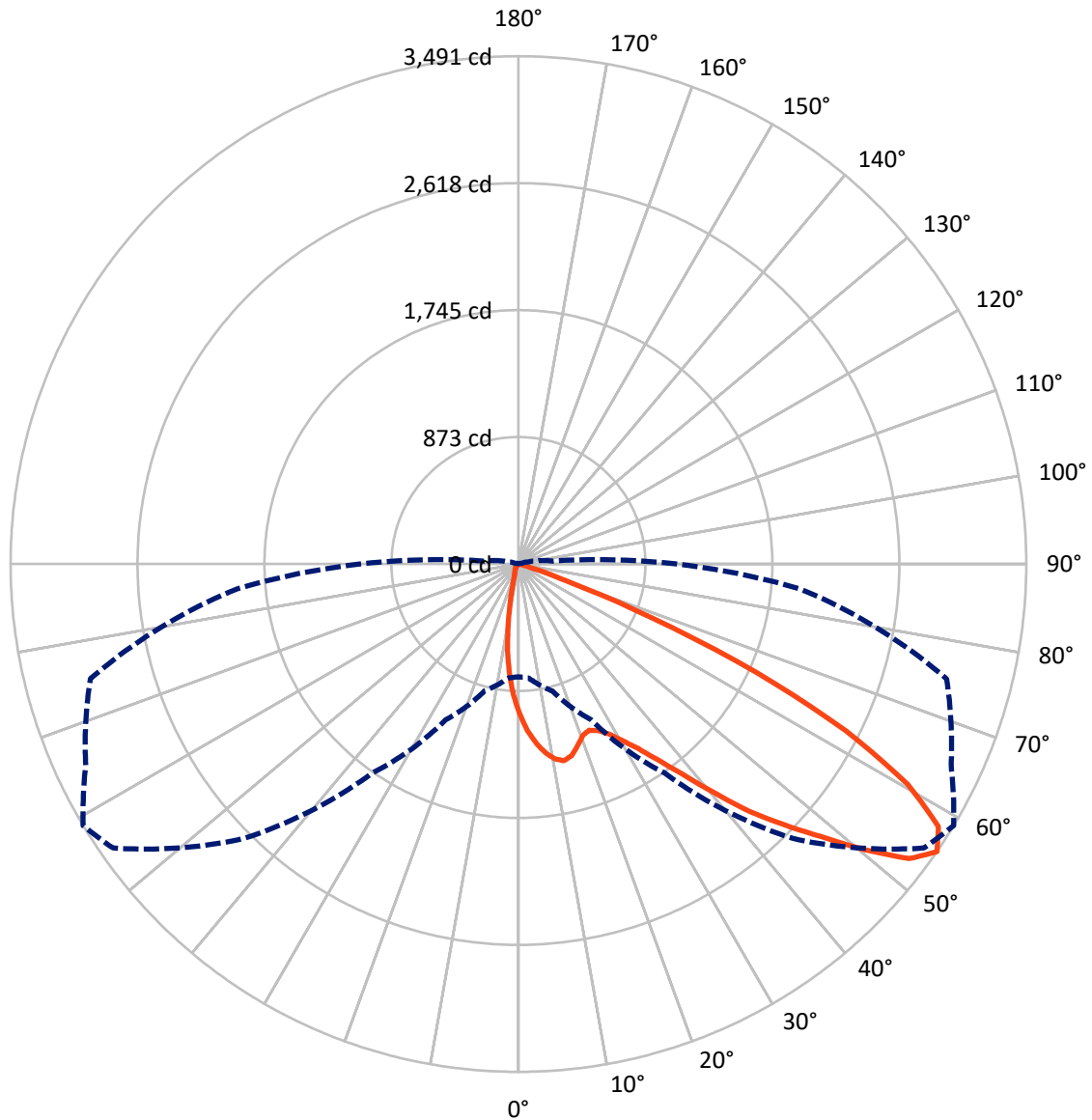


Based on 10 foot mounting height. Maximum calculated value = 12.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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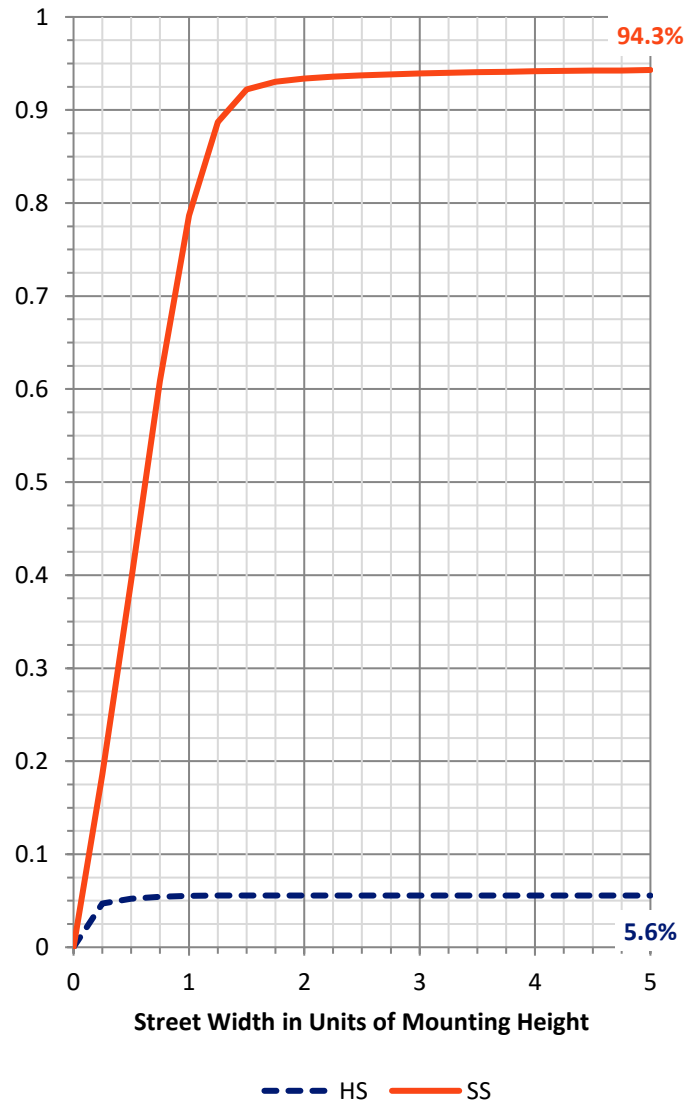
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	204.0	0.0	204.0
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	3448.1	0.0	3448.1
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	3652.1	0.0	3652.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.1	2.4
10°-20°	206.2	5.6
20°-30°	350.8	9.6
30°-40°	603.3	16.5
40°-50°	931.5	25.5
50°-60°	936.4	25.6
60°-70°	480.2	13.1
70°-80°	52.0	1.4
80°-90°	5.4	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°	3652.1	100.0
0°-180°	3652.1	100.0



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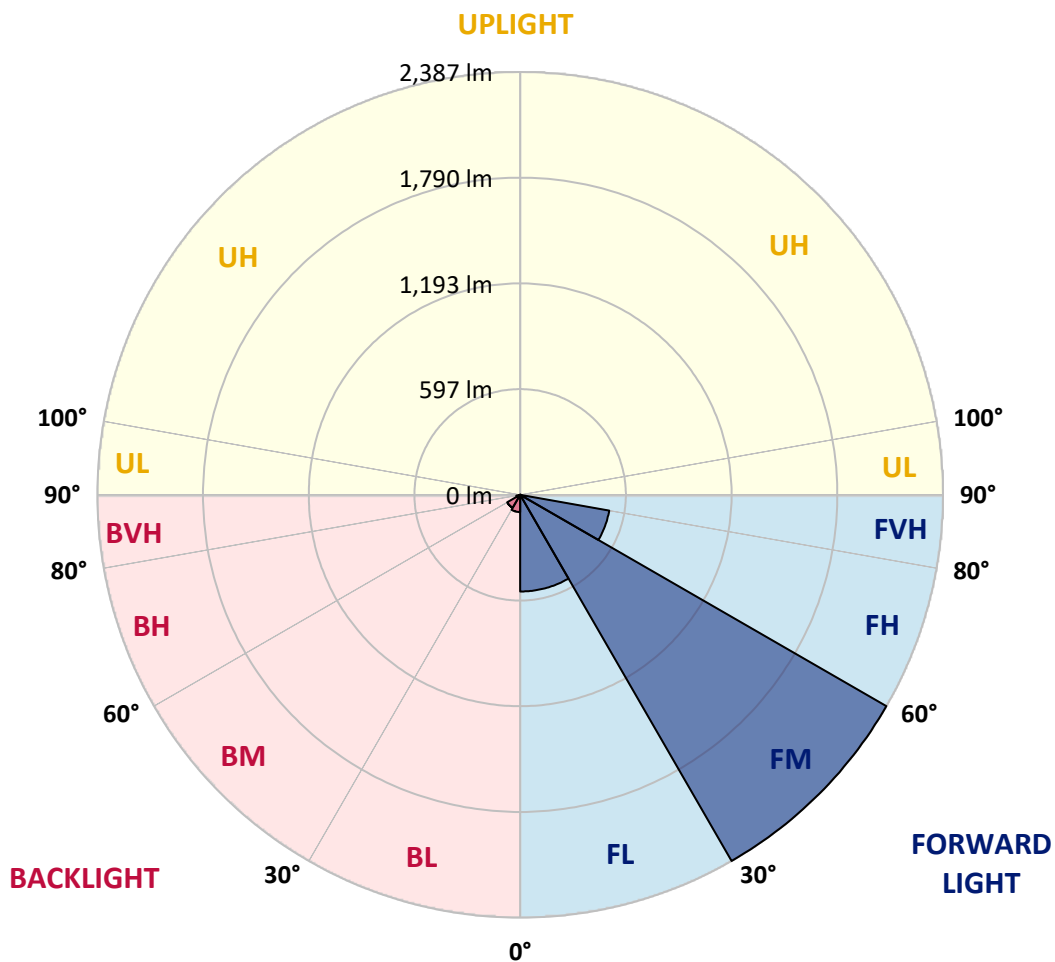
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.7	14.9			
FM (30°-60°)	2386.6	65.3			
FH (60°-80°)	510.4	14.0			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	97.4	2.7	B0/110		
BM (30°-60°)	84.7	2.3	B0/220		
BH (60°-80°)	21.9	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: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0
2.5°	1216.5	1203.5	1199.5	1197.0	1185.1	1170.3	1150.0	1140.6	1121.2	1090.0	1051.6
5°	1327.9	1325.4	1316.8	1312.2	1299.4	1278.3	1245.9	1230.4	1199.5	1147.0	1078.2
7.5°	1279.1	1294.0	1305.9	1325.7	1350.7	1349.9	1322.7	1306.6	1272.0	1202.7	1108.0
10°	1091.0	1103.1	1122.4	1167.4	1259.3	1340.4	1372.3	1360.7	1333.1	1253.8	1136.6
12.5°	1054.2	1052.9	1056.2	1069.4	1117.5	1233.1	1363.8	1387.3	1381.8	1300.4	1163.8
15°	1073.7	1072.2	1071.8	1076.3	1087.9	1136.6	1300.7	1368.2	1411.4	1343.8	1186.9
17.5°	1128.7	1122.3	1118.7	1115.2	1111.7	1123.7	1224.7	1314.5	1416.0	1381.8	1206.1
20°	1223.0	1212.2	1199.3	1178.7	1159.4	1153.2	1192.9	1259.3	1399.7	1410.6	1218.6
22.5°	1341.2	1327.4	1305.4	1267.7	1228.3	1205.4	1208.7	1241.8	1375.7	1442.0	1224.4
25°	1474.2	1456.5	1427.1	1374.9	1316.8	1276.3	1255.2	1266.9	1364.6	1478.9	1231.0
27.5°	1616.7	1597.0	1558.6	1487.4	1421.6	1366.9	1323.7	1322.2	1383.5	1527.2	1241.8
30°	1757.9	1754.7	1704.9	1629.3	1542.3	1475.6	1413.7	1405.7	1435.9	1594.0	1263.1
32.5°	1946.2	1923.5	1862.4	1784.8	1684.3	1604.4	1530.9	1512.3	1516.2	1671.8	1296.2
35°	2183.7	2158.8	2072.7	1965.6	1853.4	1758.9	1677.7	1652.4	1642.9	1799.1	1351.8
37.5°	2337.1	2336.8	2282.7	2173.5	2053.0	1949.1	1860.6	1831.0	1811.9	1953.1	1437.9
40°	2341.3	2351.4	2358.5	2357.4	2271.6	2175.8	2097.3	2060.8	2016.2	2158.6	1549.3
42.5°	2215.6	2241.7	2304.4	2410.8	2461.7	2423.5	2357.4	2321.6	2255.3	2378.7	1685.2
45°	2045.8	2063.9	2173.5	2369.6	2564.8	2669.3	2618.7	2554.8	2467.4	2608.3	1806.9
47.5°	1969.7	1972.9	2043.9	2259.1	2572.4	2870.5	2901.2	2797.1	2660.1	2793.2	1902.3
50°	1742.4	1748.1	1845.9	2067.4	2481.6	2965.7	3184.9	3086.0	2870.2	2935.7	1936.9
52.5°	1313.2	1321.3	1445.6	1752.7	2231.5	2925.2	3387.8	3364.0	3100.3	3005.3	1938.8
55°	774.8	785.6	904.1	1179.7	1755.2	2667.3	3402.9	3490.9	3282.0	3046.4	1935.8
57.5°	361.8	369.5	437.2	607.8	1091.6	2108.1	3175.8	3403.8	3382.2	3068.3	1957.1
60°	192.2	194.5	210.8	263.2	493.3	1336.7	2732.5	3073.6	3290.9	3098.3	1983.3
62.5°	147.1	147.6	146.8	153.0	207.2	593.3	2065.4	2526.8	2922.9	3075.7	1954.4
65°	127.4	128.5	122.3	120.9	132.9	211.6	1226.9	1801.1	2296.8	2770.4	1757.7
67.5°	114.3	114.7	107.3	101.1	103.2	114.4	484.0	986.0	1520.3	2030.7	1273.9
70°	105.2	104.7	96.7	86.9	84.0	78.2	153.9	361.5	726.5	1029.7	592.5
72.5°	93.2	93.3	89.4	76.5	69.8	54.7	71.3	105.5	216.9	280.6	138.8
75°	82.6	81.4	76.7	68.5	57.5	36.0	35.4	47.0	66.8	66.4	30.0
77.5°	59.6	58.6	60.1	56.2	44.1	23.3	17.6	22.6	27.2	26.3	8.4
80°	43.7	43.1	38.7	46.8	38.9	15.9	11.0	12.0	14.1	11.9	2.5
82.5°	30.0	29.7	27.4	26.0	22.2	9.7	6.8	7.5	9.1	6.6	1.3
85°	4.8	5.4	19.9	15.7	13.1	4.3	4.8	5.2	6.0	3.7	0.4
87.5°	0.0	0.0	9.3	8.2	2.5	1.7	2.9	3.1	3.1	1.9	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°	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0
2.5°	1032.0	1010.4	970.4	929.3	891.2	845.8	814.5	791.0	763.7	756.6	772.5
5°	1039.0	998.2	912.5	819.3	731.5	634.4	560.0	501.1	447.9	429.7	446.2
7.5°	1050.3	989.8	849.7	696.1	543.6	391.8	287.9	219.6	176.1	163.1	170.0
10°	1061.4	977.1	777.2	550.4	341.9	190.7	124.1	99.2	89.9	87.9	89.0
12.5°	1070.7	960.4	688.6	391.4	182.7	102.1	81.2	77.2	75.8	75.8	76.3
15°	1076.3	935.0	583.7	248.9	105.2	77.2	70.8	69.6	69.6	69.8	70.2
17.5°	1075.7	902.5	468.7	150.6	78.7	68.4	64.7	63.6	63.4	63.8	64.0
20°	1067.7	860.3	353.5	99.4	68.5	62.3	58.6	56.8	56.5	57.0	57.3
22.5°	1052.6	808.2	252.9	76.5	61.9	56.5	51.9	50.2	50.2	50.7	51.1
25°	1034.3	744.4	172.8	64.9	55.9	50.2	46.0	44.3	44.8	46.0	46.2
27.5°	1011.4	672.7	117.5	55.7	48.5	43.9	40.8	39.6	40.8	42.2	42.7
30°	991.9	597.8	83.8	48.1	41.1	37.9	36.0	36.0	37.5	40.3	41.0
32.5°	976.7	525.5	64.7	42.5	35.8	33.0	31.9	33.0	35.4	38.2	38.7
35°	974.8	465.7	54.7	37.9	31.9	29.0	28.7	30.6	33.0	35.2	35.6
37.5°	989.8	410.5	49.3	34.2	28.4	26.0	25.4	27.8	30.2	32.8	33.3
40°	1017.9	367.2	45.5	30.8	25.6	22.8	22.0	23.7	26.9	30.5	31.3
42.5°	1054.6	331.5	41.1	27.4	22.8	19.0	17.8	19.9	23.3	26.9	27.9
45°	1089.5	300.7	36.4	23.4	19.1	14.6	14.3	16.8	18.5	22.2	23.0
47.5°	1108.7	273.5	32.2	19.1	14.9	11.9	11.9	12.4	14.3	18.5	19.5
50°	1102.2	251.7	27.9	14.3	10.3	9.1	9.1	8.9	11.4	14.9	15.5
52.5°	1089.3	239.2	24.2	11.0	7.0	6.5	5.7	6.5	7.9	9.5	9.7
55°	1087.3	237.1	20.2	8.9	5.0	4.3	3.2	3.2	3.2	3.1	2.5
57.5°	1102.4	240.6	17.0	7.0	3.7	2.9	1.7	0.0	0.0	0.0	0.0
60°	1117.9	244.2	14.6	5.0	2.5	1.4	0.2	0.0	0.0	0.0	0.0
62.5°	1092.1	236.1	12.2	3.1	1.9	0.7	0.0	0.0	0.0	0.0	0.0
65°	959.3	201.0	9.7	2.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	682.4	134.4	6.5	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	311.4	56.2	4.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	66.7	17.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.6	12.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.3	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.5	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.2	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)