

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: P200119

Luminaire Tested: **GPC-AF-01-LED-E1-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6369.9 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

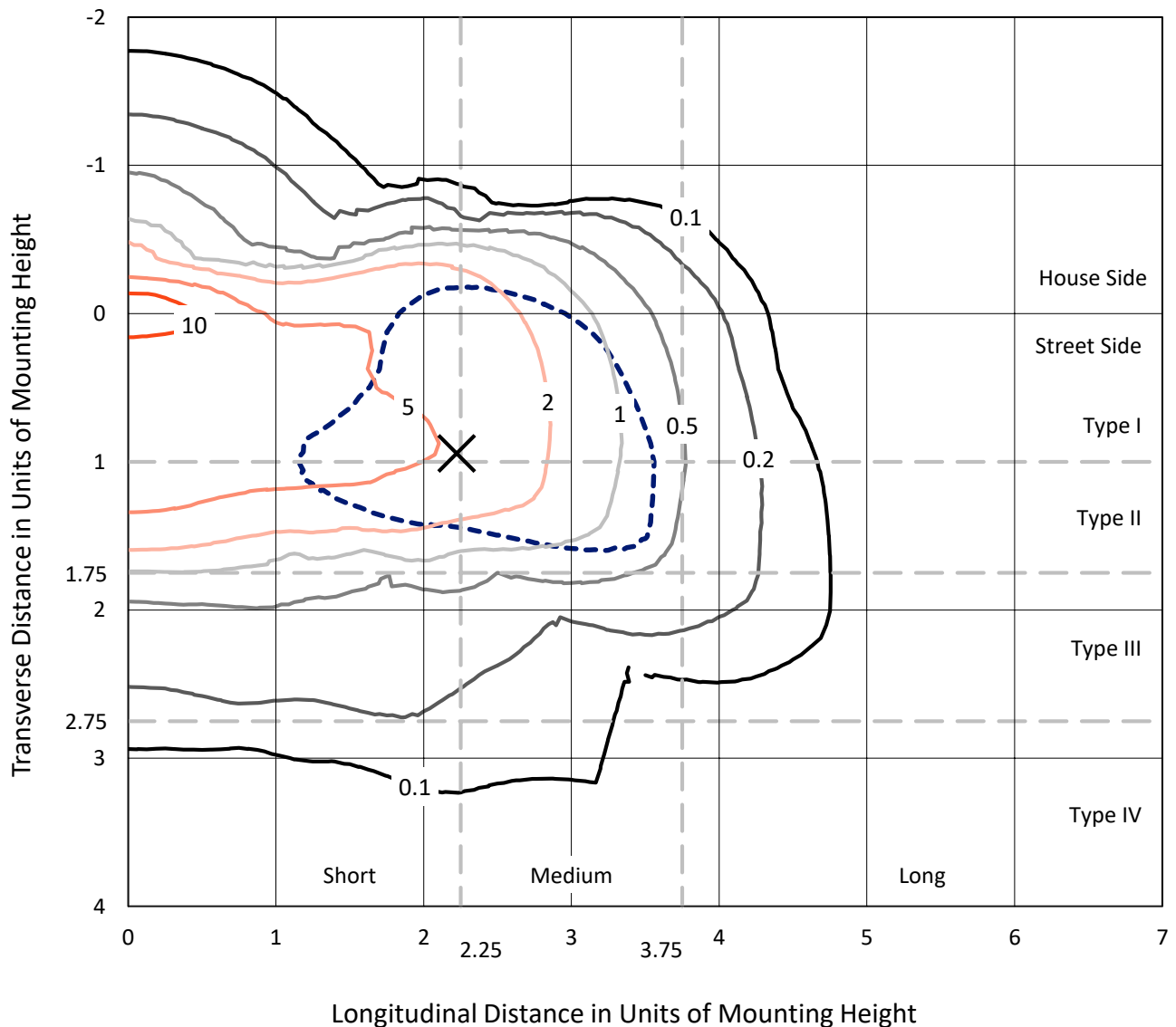
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

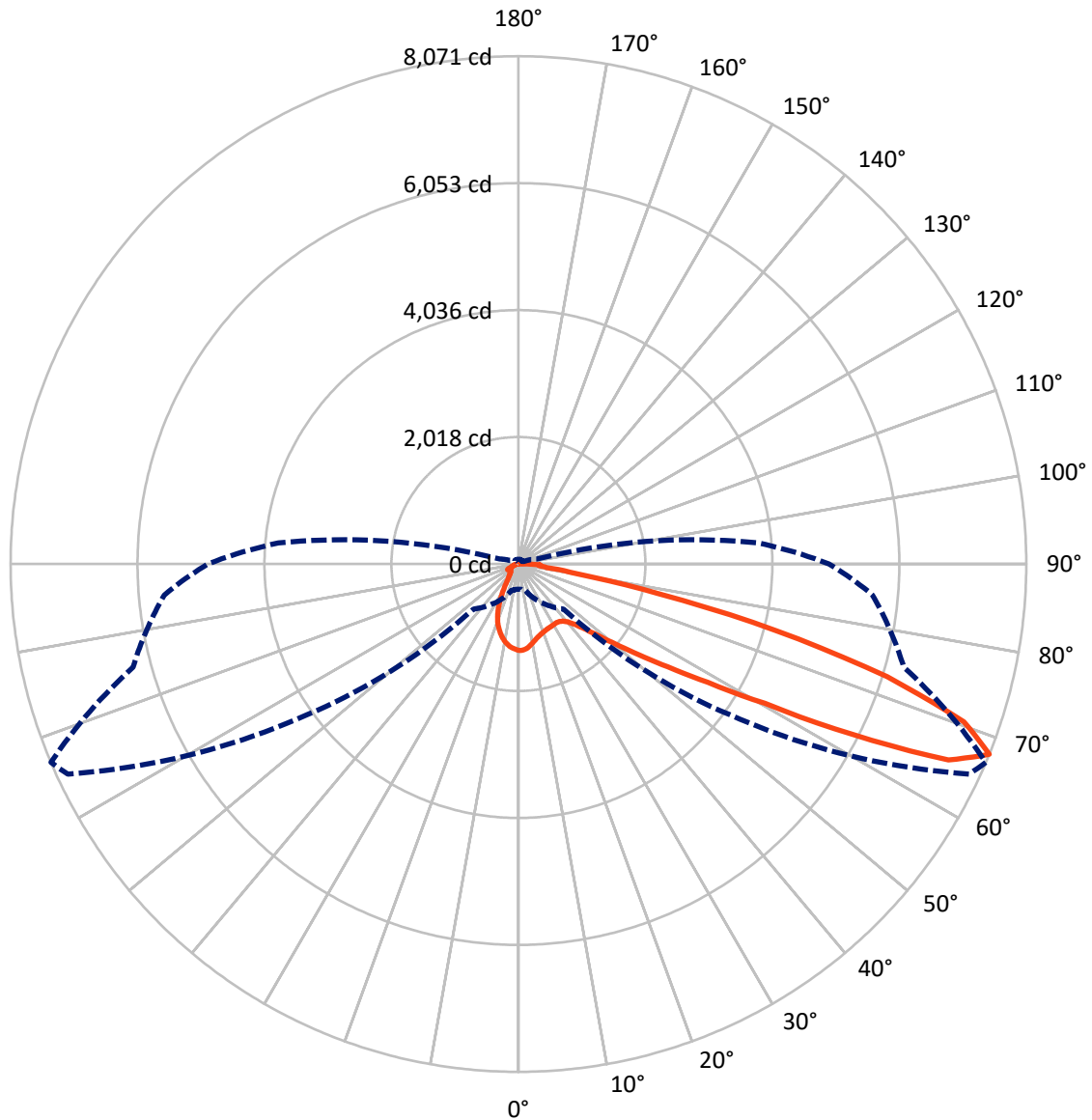
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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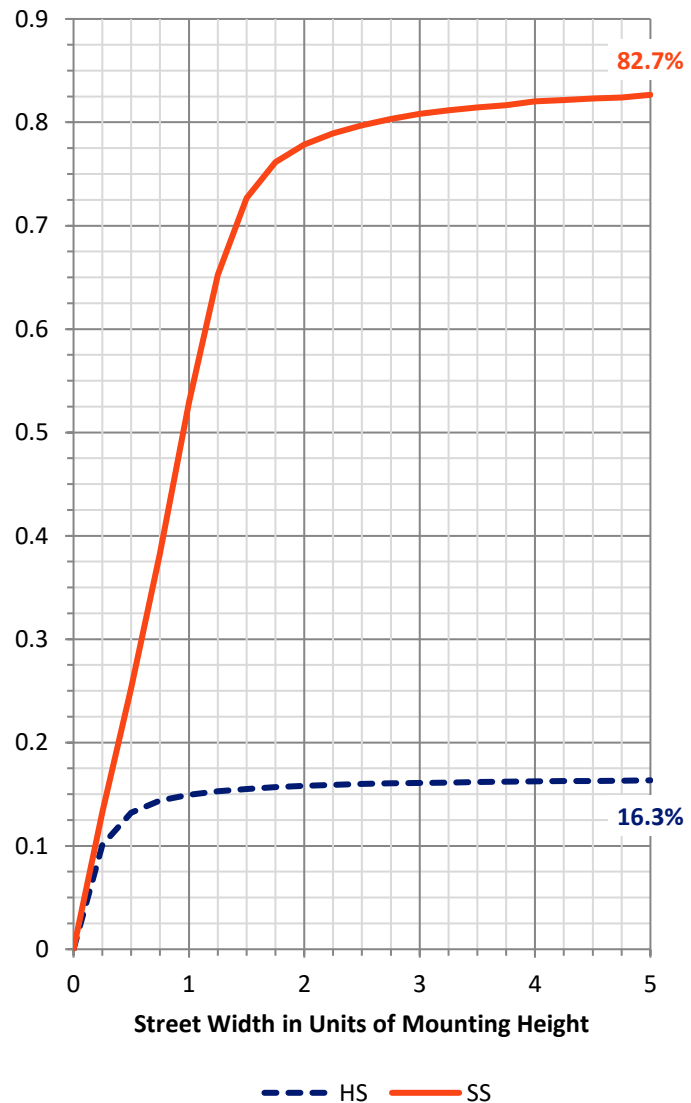
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1055.4	0.0	1055.4
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	5314.5	0.0	5314.5
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	6369.9	0.0	6369.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.2	1.8
10°-20°	271.2	4.3
20°-30°	367.7	5.8
30°-40°	522.7	8.2
40°-50°	874.4	13.7
50°-60°	1383.4	21.7
60°-70°	1762.3	27.7
70°-80°	923.1	14.5
80°-90°	148.0	2.3
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°	6369.9	100.0
0°-180°	6369.9	100.0



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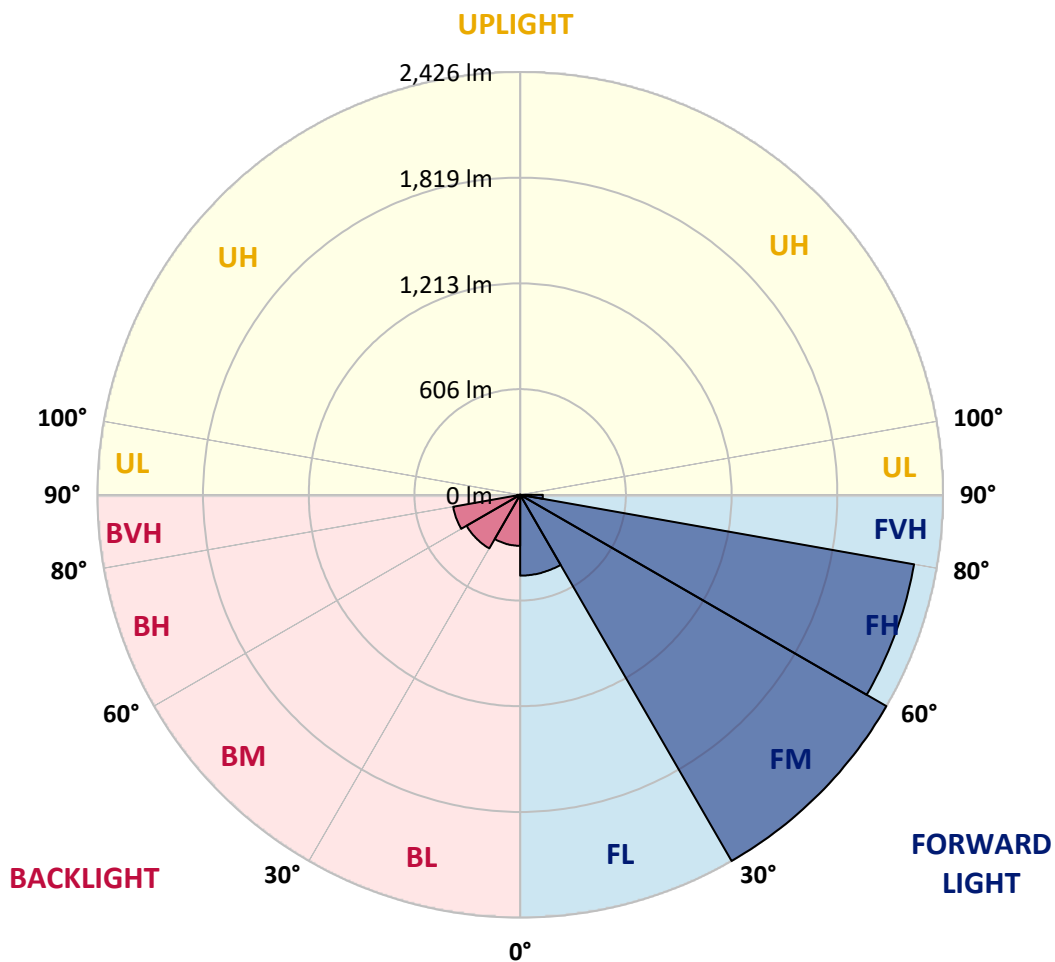
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.6	7.3			
FM (30°-60°)	2425.8	38.1			
FH (60°-80°)	2294.9	36.0			G2/5000
FVH (80°-90°)	130.2	2.0			G2/225
BL (0°-30°)	292.5	4.6	B1/500		
BM (30°-60°)	354.7	5.6	B1/1000		
BH (60°-80°)	390.4	6.1	B1/500		G1/500
BVH (80°-90°)	17.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1317.5	1319.6	1326.6	1331.0	1350.7	1359.2	1365.2	1371.2	1372.1	1374.9	1372.1
5°	1179.3	1184.0	1196.9	1211.3	1249.5	1279.7	1311.4	1344.5	1350.4	1371.8	1377.7
7.5°	1072.1	1070.8	1081.6	1098.9	1138.0	1179.9	1235.4	1301.1	1314.0	1362.1	1385.3
10°	993.9	993.0	1004.2	1022.1	1059.6	1099.2	1162.0	1251.8	1270.0	1346.6	1392.5
12.5°	936.1	936.4	947.7	967.5	1005.5	1045.4	1109.2	1204.0	1227.2	1328.7	1400.0
15°	897.7	900.3	909.4	930.5	967.5	1007.4	1069.9	1168.2	1194.3	1314.6	1408.5
17.5°	884.9	888.9	892.1	907.5	939.3	979.2	1040.3	1141.8	1169.4	1304.9	1416.1
20°	896.8	901.5	895.6	900.9	921.0	956.2	1017.1	1121.2	1149.4	1293.8	1417.0
22.5°	948.1	952.5	934.9	919.4	918.2	939.6	998.0	1104.8	1133.9	1285.7	1417.3
25°	1038.2	1041.0	1011.5	975.7	940.8	933.5	984.5	1093.4	1124.5	1278.5	1411.4
27.5°	1148.8	1150.9	1117.1	1064.3	994.2	947.7	979.8	1086.9	1119.2	1272.2	1401.3
30°	1283.2	1293.5	1248.0	1181.4	1079.3	989.5	989.2	1083.4	1113.3	1261.5	1381.5
32.5°	1420.8	1425.2	1393.8	1326.3	1194.0	1062.9	1015.6	1086.0	1111.6	1248.6	1356.4
35°	1560.2	1565.9	1545.5	1491.2	1350.7	1170.8	1067.0	1100.7	1121.5	1244.2	1338.8
37.5°	1740.9	1748.4	1720.1	1657.3	1541.4	1316.8	1152.9	1137.7	1151.2	1256.8	1333.4
40°	2026.4	2023.0	1940.3	1846.7	1750.0	1503.7	1275.3	1200.5	1208.4	1297.3	1349.8
42.5°	2358.7	2350.2	2207.9	2060.9	1979.3	1729.9	1437.5	1309.6	1308.0	1377.1	1407.3
45°	2623.9	2616.9	2488.8	2307.6	2242.2	1987.5	1647.0	1472.0	1460.4	1503.7	1513.5
47.5°	2767.4	2767.7	2693.9	2545.9	2544.4	2314.7	1916.2	1706.9	1686.8	1707.3	1696.9
50°	2717.2	2723.8	2715.9	2668.8	2820.2	2743.9	2267.7	2034.5	1994.0	2014.2	1974.3
52.5°	2474.0	2482.5	2529.0	2601.3	2936.1	3262.5	2784.1	2441.7	2394.5	2387.4	2343.1
55°	2043.0	2053.5	2148.3	2344.6	2839.7	3610.8	3598.9	2960.6	2885.5	2817.4	2798.5
57.5°	1408.2	1425.5	1578.1	1869.6	2527.7	3716.1	4569.2	3700.4	3547.7	3309.6	3314.0
60°	793.8	813.9	993.9	1258.7	1898.3	3601.7	5307.4	4820.9	4498.5	3886.0	3918.7
62.5°	504.8	526.5	663.1	874.5	1139.1	2986.1	5610.0	6378.6	5969.3	4596.5	4628.6
65°	408.7	418.1	482.5	721.9	827.1	1799.0	5380.3	7661.8	7509.1	5498.5	5348.9
67.5°	399.0	402.1	435.4	605.9	793.2	1011.2	4291.6	7901.8	8071.1	6340.6	5648.8
70°	394.2	405.2	490.7	578.3	759.5	852.8	2579.0	7244.0	7511.3	6560.8	5249.6
72.5°	191.3	190.7	246.9	523.0	855.7	884.5	1324.9	5861.2	6129.5	5684.0	4313.9
75°	154.3	141.1	134.7	191.6	822.7	913.5	844.3	4033.0	4227.1	3810.9	2651.8
77.5°	146.4	130.6	119.7	120.0	347.7	968.7	715.2	2232.2	2288.8	1721.4	726.6
80°	121.2	106.8	98.9	111.5	168.4	922.6	773.4	1010.3	927.0	422.8	241.8
82.5°	84.2	76.6	74.5	93.6	134.7	657.5	899.4	542.8	455.2	211.8	149.2
85°	53.7	45.8	50.8	68.1	105.0	303.4	926.4	423.1	336.4	134.4	84.2
87.5°	24.9	20.2	25.2	37.6	68.4	104.6	881.5	475.3	346.5	71.0	53.1
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°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1374.6	1368.6	1363.9	1355.1	1345.4	1336.0	1327.5	1316.8	1313.7	1310.8	1315.2
5°	1379.0	1373.0	1355.7	1328.7	1298.9	1270.9	1243.0	1219.2	1204.3	1196.1	1200.8
7.5°	1385.6	1377.1	1341.3	1291.7	1238.0	1189.0	1138.3	1097.8	1068.1	1053.8	1057.9
10°	1391.5	1375.3	1316.8	1242.4	1163.8	1091.0	1011.2	945.2	896.2	870.4	876.7
12.5°	1394.1	1368.0	1282.6	1180.8	1073.1	966.3	848.7	750.1	679.8	654.0	648.7
15°	1396.6	1359.8	1244.8	1110.7	963.4	812.3	647.7	529.6	471.2	458.3	455.5
17.5°	1397.2	1345.7	1202.2	1034.7	834.9	629.2	442.9	367.9	368.2	388.9	391.4
20°	1390.6	1324.6	1150.3	940.2	681.0	435.1	304.0	291.2	338.6	390.5	396.7
22.5°	1375.6	1296.7	1091.6	829.9	504.8	286.5	235.3	249.4	310.7	374.1	381.4
25°	1356.4	1262.7	1022.1	702.1	334.2	204.8	197.2	214.5	256.0	298.4	302.5
27.5°	1330.3	1222.5	944.3	555.7	217.1	168.7	173.7	185.4	202.3	221.2	223.0
30°	1296.7	1174.6	861.0	405.2	164.0	151.7	159.0	165.2	172.5	183.1	184.0
32.5°	1258.0	1128.3	775.6	279.9	145.5	142.9	148.5	151.7	157.3	164.0	164.6
35°	1225.7	1084.3	687.0	197.9	137.6	136.4	140.1	141.4	146.7	154.0	154.6
37.5°	1207.2	1048.5	595.6	159.6	132.3	130.3	132.6	132.6	140.1	150.8	152.3
40°	1208.4	1028.8	504.2	144.1	127.9	125.3	125.6	125.6	135.3	147.0	147.9
42.5°	1242.7	1033.8	423.1	138.2	124.4	121.5	120.0	120.9	129.1	136.7	137.3
45°	1323.1	1069.3	347.1	134.4	120.9	120.0	116.5	116.2	119.4	122.9	122.9
47.5°	1455.0	1139.4	295.6	132.0	118.2	117.8	113.8	109.7	109.4	110.6	110.6
50°	1669.6	1260.0	261.1	129.1	116.2	113.8	109.0	102.7	100.6	101.5	101.5
52.5°	1991.3	1475.1	247.9	125.3	112.1	108.0	102.7	96.5	94.5	94.8	94.8
55°	2413.1	1805.6	245.9	120.9	107.7	101.2	96.8	92.1	89.8	90.4	90.4
57.5°	2928.6	2262.7	279.6	114.1	101.8	94.2	91.8	88.6	87.1	88.0	87.7
60°	3555.3	2860.7	414.6	106.8	95.9	88.0	88.0	85.4	84.2	85.1	84.8
62.5°	4277.1	3547.7	583.0	101.5	89.5	83.0	84.2	83.0	81.6	82.3	81.9
65°	4917.3	3995.3	545.9	97.4	83.3	78.3	80.4	79.8	78.9	79.5	79.2
67.5°	4935.8	3829.5	306.6	93.0	77.2	73.6	76.6	76.3	75.7	76.3	76.0
70°	4404.9	3233.5	172.8	84.8	71.0	67.8	72.2	71.9	71.3	72.5	72.2
72.5°	3529.2	2346.5	126.2	74.8	64.8	61.9	66.9	66.6	66.6	68.4	67.5
75°	2030.8	1207.5	100.9	64.0	58.1	56.0	60.4	60.7	61.3	63.7	61.9
77.5°	578.9	376.3	82.3	54.3	49.9	49.0	53.4	54.0	54.3	57.2	54.6
80°	215.1	173.4	67.8	45.5	40.8	41.1	45.2	46.1	46.4	49.3	46.1
82.5°	137.3	114.4	54.9	35.2	32.0	31.7	36.7	38.1	38.1	38.4	36.4
85°	80.1	68.4	41.4	25.5	22.6	21.7	27.3	29.6	28.5	27.9	26.7
87.5°	53.7	47.2	25.5	14.1	12.3	11.7	16.1	17.6	17.0	16.1	15.0
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)