

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: STREETWORKS

Report Number: P200262

Luminaire Tested: **GAP-AF-02-LED-U-RW-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-02-LED-U-RW-7050-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10259 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G1

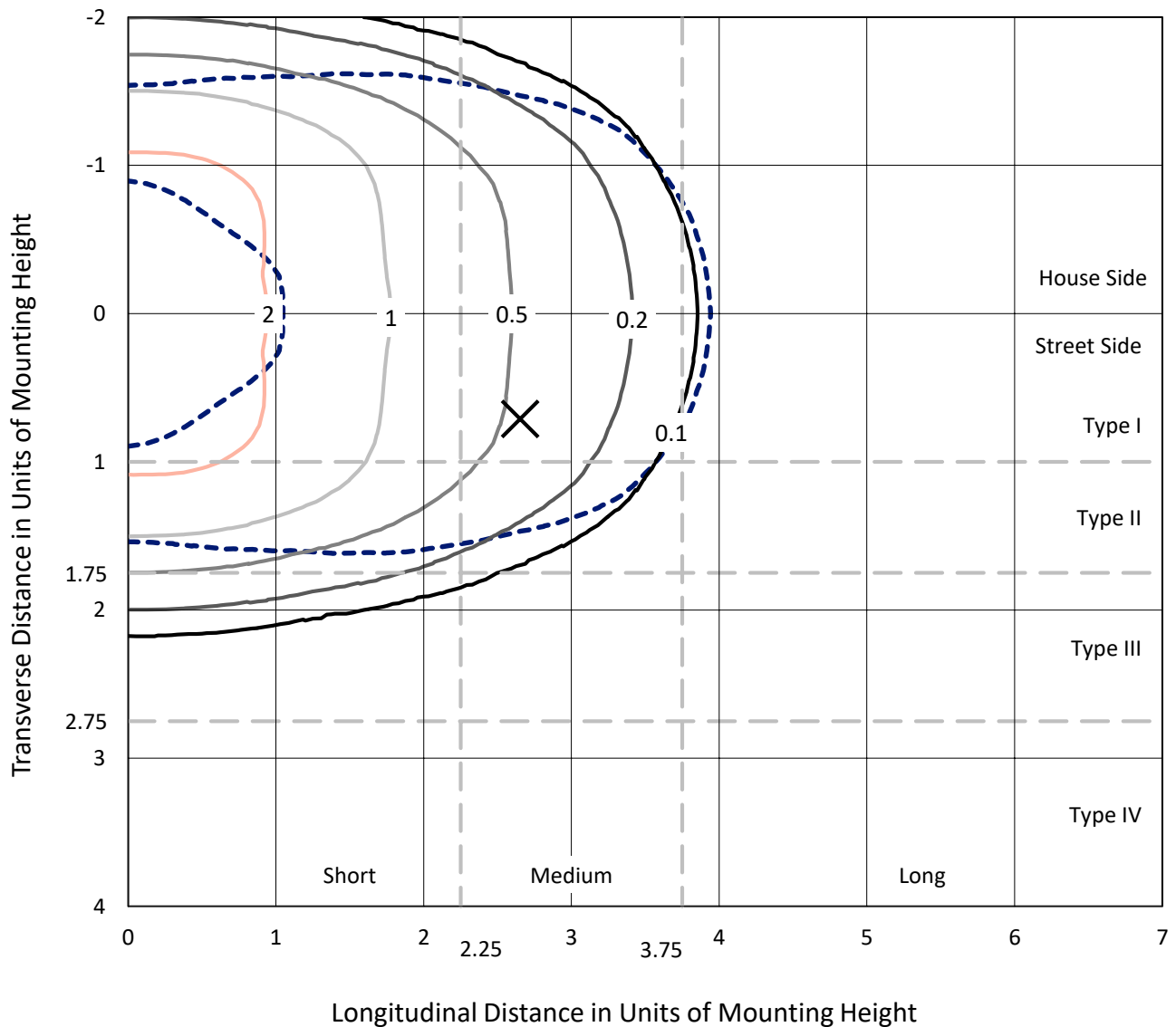
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

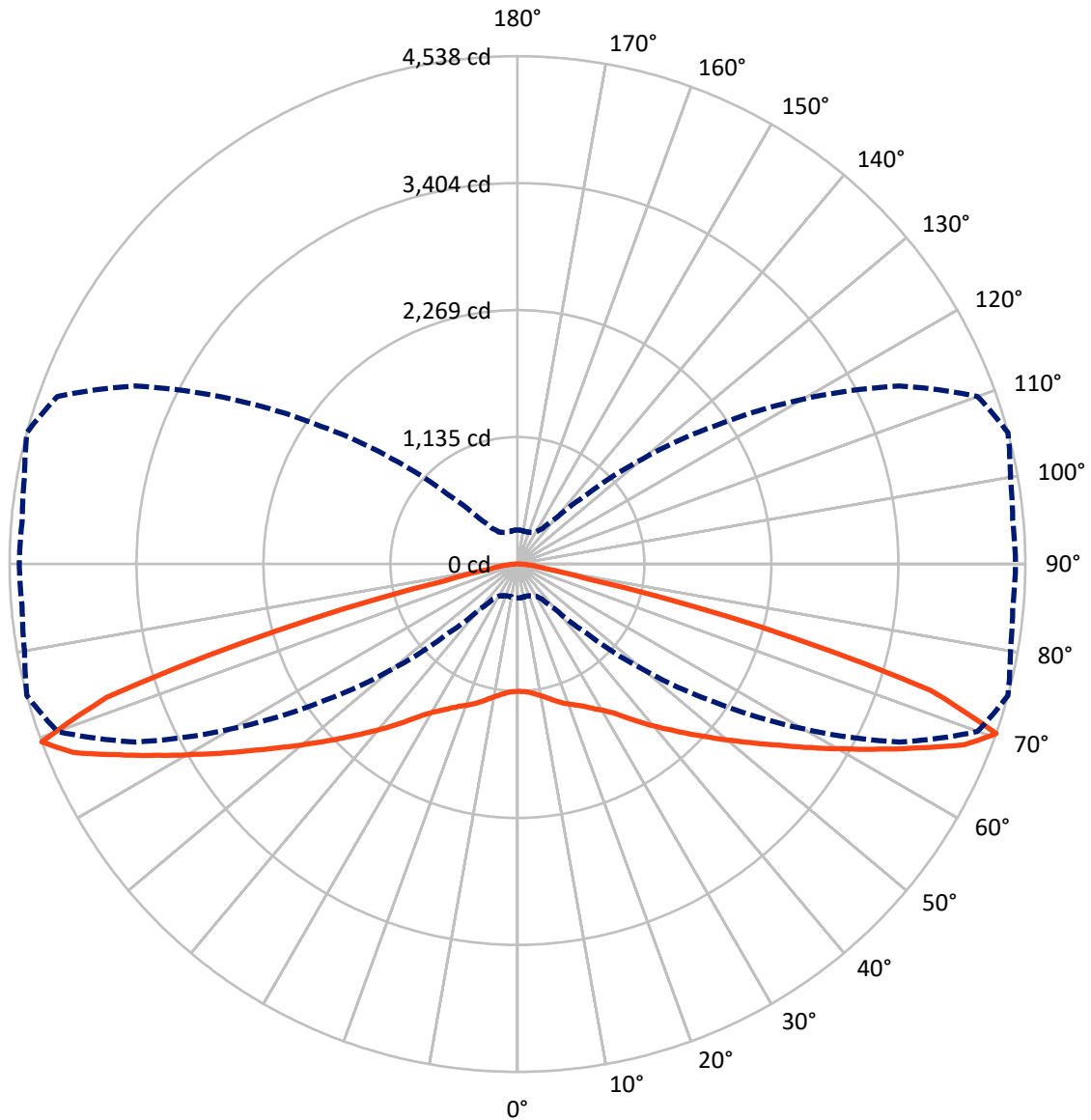


Based on 20 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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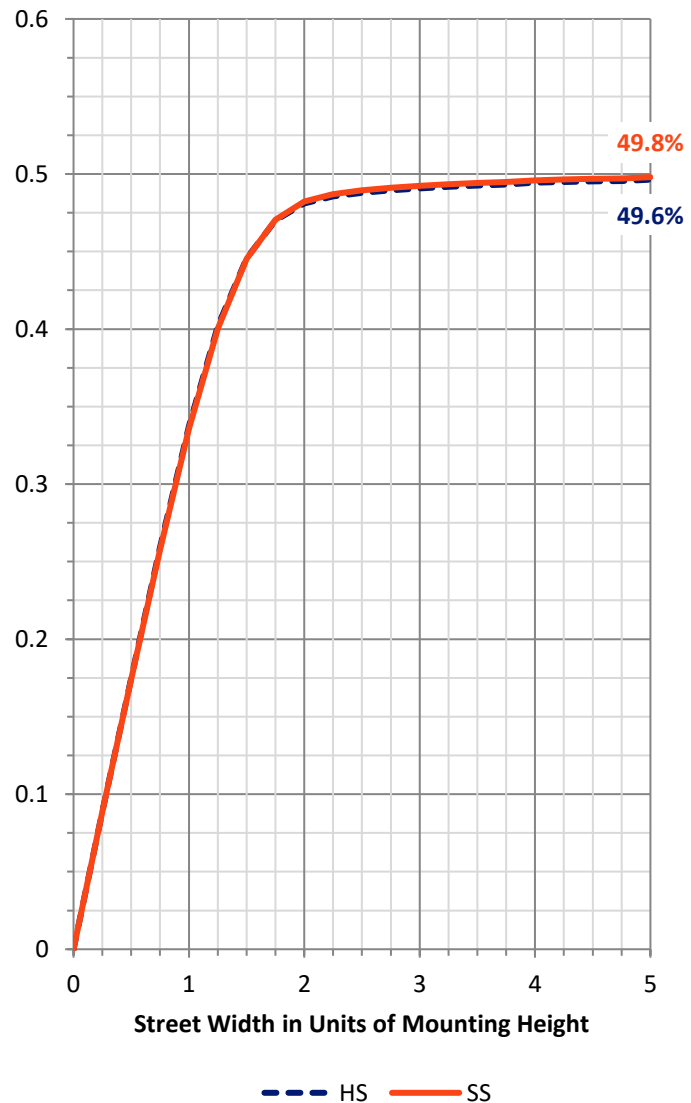
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5129.5	0.0	5129.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5129.5	0.0	5129.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10259.0	0.0	10259.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.1	1.1
10°-20°	339.1	3.3
20°-30°	638.3	6.2
30°-40°	1130.2	11.0
40°-50°	1890.1	18.4
50°-60°	2633.9	25.7
60°-70°	2442.5	23.8
70°-80°	973.4	9.5
80°-90°	102.3	1.0
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°	10259.0	100.0
0°-180°	10259.0	100.0



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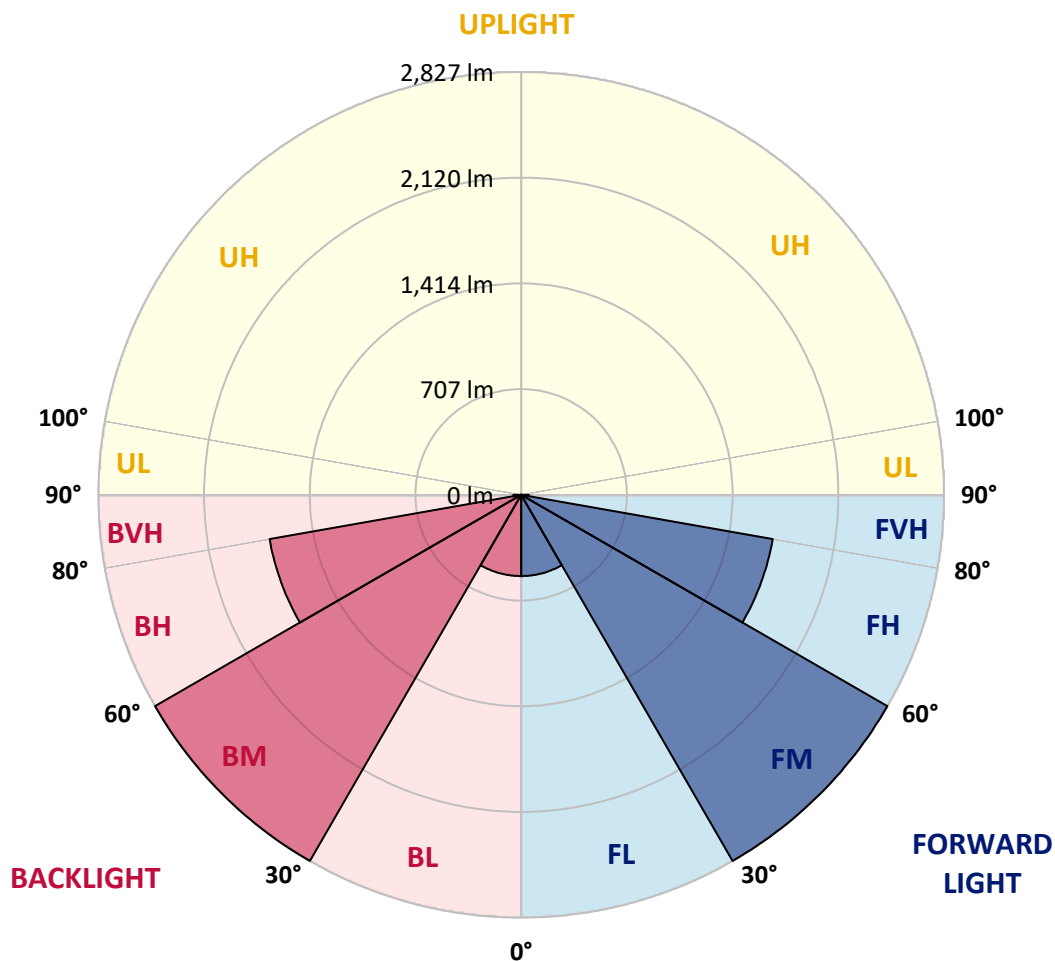
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	543.3	5.3			
FM	(30°-60°)	2827.1	27.6			
FH	(60°-80°)	1708.0	16.6			G1/1800
FVH	(80°-90°)	51.2	0.5			G1/100
BL	(0°-30°)	543.3	5.3	B2/1000		
BM	(30°-60°)	2827.1	27.6	B3/5000		
BH	(60°-80°)	1708.0	16.6	B3/2500		G1/1800
BVH	(80°-90°)	51.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0
2.5°	1136.0	1135.1	1136.0	1135.5	1136.5	1136.5	1137.5	1139.4	1139.4	1140.9	1140.4
5°	1124.9	1124.4	1125.8	1127.3	1128.7	1131.7	1134.6	1138.9	1142.3	1144.8	1147.2
7.5°	1103.1	1103.1	1105.0	1108.4	1111.8	1118.1	1124.9	1133.6	1142.3	1149.6	1155.9
10°	1085.1	1086.1	1088.5	1094.3	1100.1	1109.8	1119.1	1131.7	1143.8	1155.9	1165.6
12.5°	1074.4	1075.9	1080.3	1089.0	1098.7	1111.8	1125.8	1141.8	1155.4	1170.0	1179.7
15°	1077.8	1078.8	1085.1	1095.8	1108.4	1124.9	1143.8	1162.7	1178.7	1194.2	1207.3
17.5°	1096.7	1098.2	1105.5	1117.6	1130.7	1150.1	1170.4	1191.8	1211.7	1229.1	1245.1
20°	1130.7	1132.1	1141.4	1154.4	1170.0	1189.8	1210.2	1232.5	1254.8	1273.2	1291.2
22.5°	1178.7	1181.1	1189.8	1202.9	1220.4	1241.7	1266.0	1289.7	1311.1	1328.0	1344.0
25°	1241.7	1247.1	1255.3	1269.8	1288.3	1307.7	1333.8	1358.1	1378.5	1394.5	1406.1
27.5°	1330.9	1338.2	1344.5	1358.6	1376.5	1394.9	1421.1	1442.5	1461.8	1477.4	1486.1
30°	1449.2	1456.5	1462.8	1476.4	1492.9	1510.3	1535.1	1554.0	1566.1	1578.2	1577.7
32.5°	1592.8	1600.5	1602.9	1617.5	1634.5	1653.4	1675.7	1686.3	1696.0	1697.5	1688.8
35°	1753.2	1757.1	1766.8	1786.2	1805.6	1821.1	1842.5	1847.8	1847.8	1840.5	1821.1
37.5°	1929.3	1931.7	1945.3	1967.1	1986.9	2002.9	2017.5	2028.2	2022.8	2007.3	1974.8
40°	2122.2	2126.6	2146.0	2165.4	2187.7	2202.7	2218.2	2220.2	2214.8	2192.0	2147.9
42.5°	2306.5	2310.3	2329.7	2360.3	2389.4	2410.2	2424.8	2427.7	2410.7	2389.9	2335.1
45°	2465.0	2475.2	2500.4	2536.3	2578.5	2608.1	2627.9	2636.2	2621.1	2594.0	2530.5
47.5°	2590.6	2600.8	2636.7	2679.3	2731.7	2779.7	2812.7	2830.1	2826.2	2805.9	2736.5
50°	2682.7	2692.4	2731.2	2783.6	2844.7	2904.3	2960.5	3002.2	3016.8	3007.6	2944.1
52.5°	2693.4	2709.4	2755.0	2825.3	2904.8	2986.2	3066.2	3137.0	3185.0	3192.3	3145.3
55°	2544.5	2560.5	2623.6	2727.8	2846.1	2979.0	3107.0	3226.2	3320.8	3369.3	3344.6
57.5°	2193.5	2222.1	2288.5	2410.7	2584.8	2783.6	2987.7	3199.6	3392.1	3520.6	3545.3
60°	1681.0	1714.9	1781.9	1911.8	2105.7	2342.8	2615.3	2928.5	3268.4	3557.4	3730.0
62.5°	1078.3	1110.3	1180.6	1293.6	1451.7	1708.6	2001.0	2372.9	2829.6	3285.9	3697.0
65°	554.2	571.6	608.5	676.9	800.0	992.0	1254.3	1625.2	2147.4	2710.4	3304.8
67.5°	351.0	354.4	362.7	372.4	403.9	470.3	592.5	823.8	1253.4	1840.5	2536.3
70°	303.5	303.5	299.6	298.2	302.1	311.3	330.2	384.0	529.0	873.7	1462.8
72.5°	277.8	274.9	268.1	262.8	261.8	261.8	265.7	273.9	297.2	355.9	572.6
75°	256.0	247.8	238.6	232.2	229.8	227.4	226.9	228.4	233.2	242.4	273.5
77.5°	229.3	218.7	208.0	201.7	198.8	195.4	192.5	189.1	186.7	189.6	203.2
80°	197.3	185.2	177.0	173.1	170.2	165.3	159.0	153.2	147.9	146.9	155.2
82.5°	159.0	145.0	145.5	146.9	141.6	134.8	128.0	121.7	112.5	107.6	112.5
85°	128.5	121.2	117.8	127.0	119.3	109.1	98.4	87.3	72.7	61.1	66.4
87.5°	49.9	49.9	74.7	114.9	103.3	84.4	72.2	61.6	38.3	29.6	30.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0
2.5°	1139.9	1140.9	1140.4	1139.9	1139.9	1139.4	1139.9	1139.9
5°	1148.6	1151.1	1151.1	1152.0	1152.0	1152.5	1153.0	1152.5
7.5°	1161.7	1166.1	1169.0	1172.4	1172.9	1173.4	1174.3	1173.4
10°	1174.8	1183.5	1189.8	1196.1	1199.1	1200.0	1201.0	1201.0
12.5°	1191.3	1203.4	1214.6	1225.7	1231.1	1234.0	1234.0	1235.9
15°	1218.4	1230.6	1243.7	1258.7	1267.9	1272.8	1274.2	1274.2
17.5°	1256.8	1267.4	1278.6	1293.1	1304.8	1311.1	1312.5	1312.0
20°	1301.4	1311.5	1317.8	1327.1	1337.2	1344.5	1346.5	1346.5
22.5°	1352.3	1358.1	1359.1	1362.0	1370.2	1379.9	1384.3	1385.2
25°	1408.5	1410.0	1406.1	1406.1	1411.4	1420.6	1425.0	1425.5
27.5°	1481.2	1474.0	1464.3	1460.9	1464.3	1474.9	1480.3	1482.2
30°	1571.9	1554.5	1532.2	1520.0	1518.1	1532.2	1541.8	1543.3
32.5°	1675.7	1650.5	1620.9	1596.2	1589.8	1598.6	1610.2	1609.7
35°	1798.8	1768.8	1732.9	1701.4	1686.8	1695.5	1712.0	1714.0
37.5°	1940.9	1901.6	1860.4	1820.6	1797.9	1800.3	1817.7	1823.6
40°	2099.4	2048.5	1996.6	1943.3	1910.8	1904.5	1925.9	1929.3
42.5°	2269.1	2203.7	2138.2	2072.3	2030.6	2020.9	2045.6	2044.2
45°	2450.0	2366.6	2290.0	2217.3	2167.8	2153.3	2173.6	2173.6
47.5°	2644.4	2541.6	2450.5	2368.0	2314.2	2293.4	2312.8	2314.2
50°	2850.5	2741.4	2634.2	2542.6	2478.1	2451.4	2476.7	2480.5
52.5°	3055.6	2949.4	2841.3	2736.5	2658.5	2626.0	2655.1	2667.7
55°	3263.6	3159.3	3056.1	2953.8	2861.1	2822.8	2853.9	2869.9
57.5°	3483.2	3386.7	3288.3	3185.0	3095.8	3036.2	3069.2	3090.5
60°	3740.7	3658.3	3555.9	3442.0	3351.8	3291.2	3310.1	3329.0
62.5°	3944.3	3976.3	3889.5	3757.7	3641.8	3564.2	3582.6	3602.5
65°	3845.9	4174.1	4251.2	4117.9	3957.4	3836.7	3828.9	3839.1
67.5°	3214.6	3852.2	4317.2	4444.2	4309.9	4142.1	4111.1	4126.1
70°	2150.3	2944.5	3764.9	4375.8	4538.3	4473.3	4442.8	4452.0
72.5°	1032.7	1714.9	2554.2	3366.4	3860.9	4087.8	4160.6	4196.0
75°	377.7	680.7	1231.1	1855.1	2239.6	2592.5	2822.8	2916.9
77.5°	227.9	274.9	393.2	592.0	670.6	750.6	719.5	735.0
80°	168.7	190.5	215.8	242.4	251.2	251.2	241.5	233.7
82.5°	118.3	132.4	144.5	159.0	162.9	155.6	128.0	101.8
85°	76.1	82.4	87.8	97.0	94.5	90.2	60.6	53.8
87.5°	34.9	39.8	41.7	46.1	44.1	42.2	30.1	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)