

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: P193550

Luminaire Tested: **GLEON-AF-02-LED-E1-RW-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193550  
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: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-RW-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10158 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

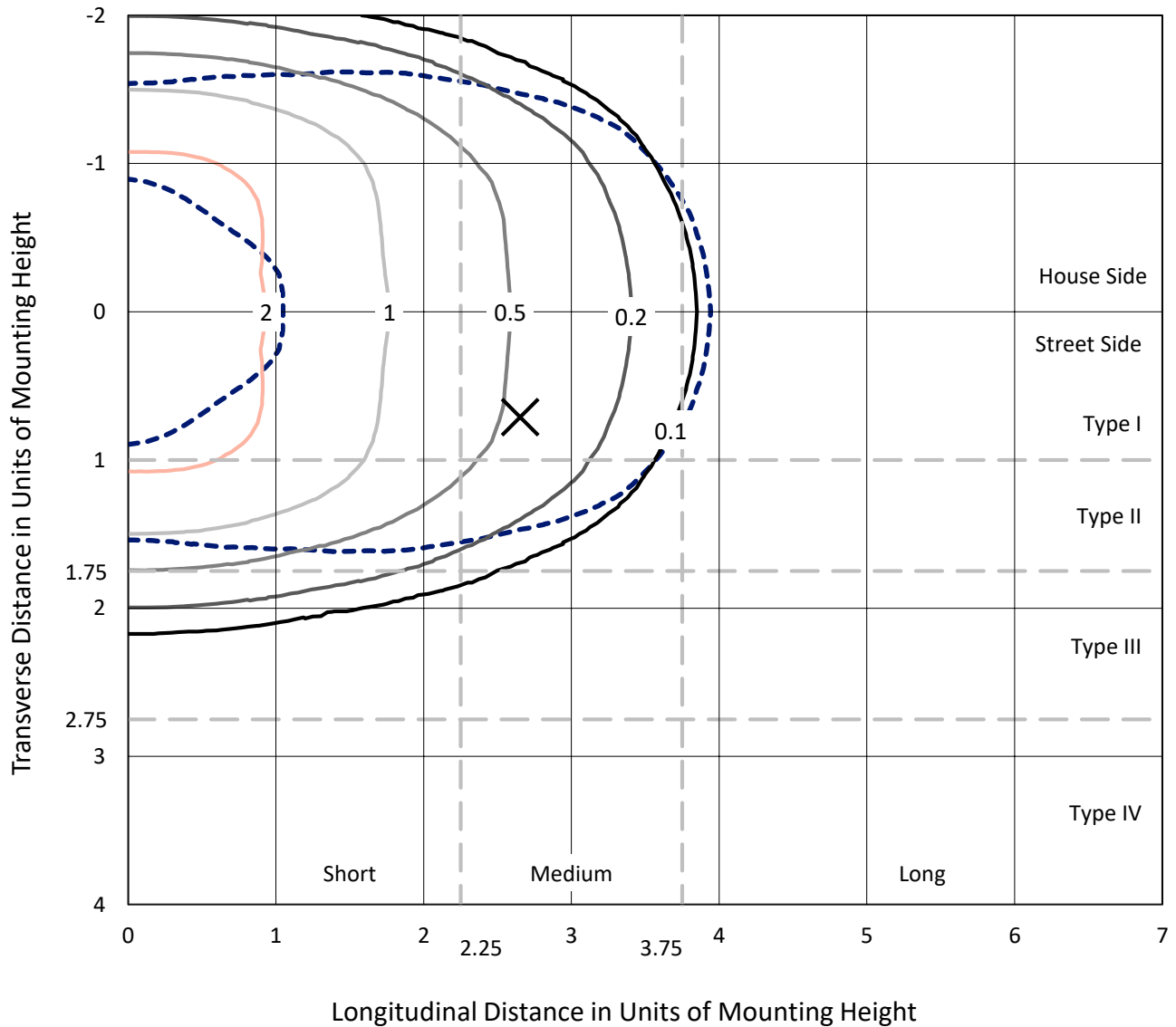
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

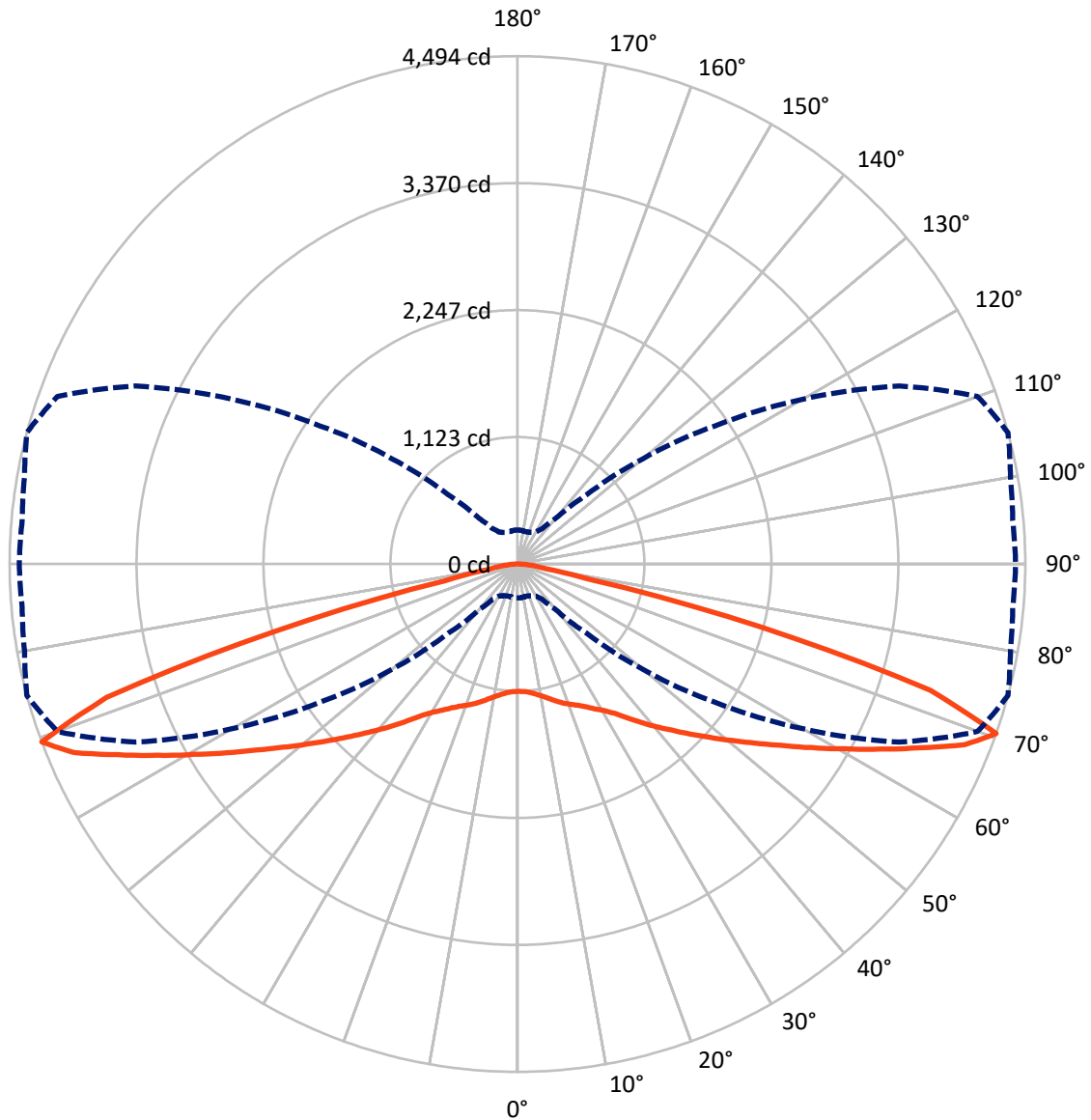
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - 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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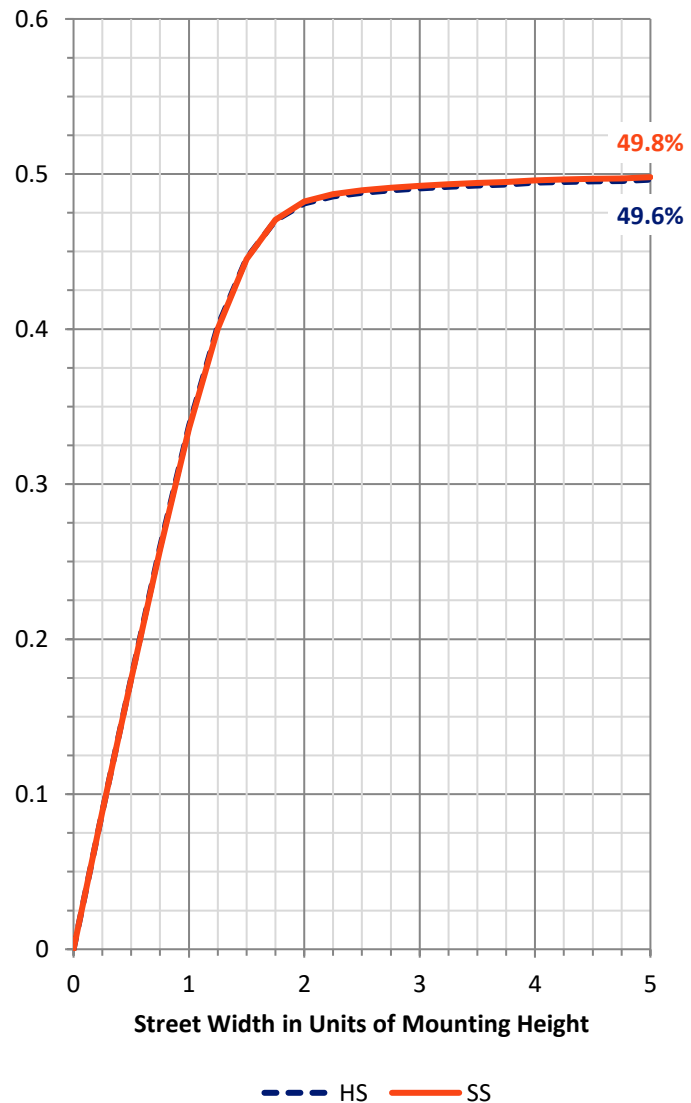
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5079.0	0.0	5079.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5079.0	0.0	5079.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10158.0	0.0	10158.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.1	1.1
10°-20°	335.8	3.3
20°-30°	632.0	6.2
30°-40°	1119.1	11.0
40°-50°	1871.5	18.4
50°-60°	2608.0	25.7
60°-70°	2418.5	23.8
70°-80°	963.8	9.5
80°-90°	101.3	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°	10158.0	100.0
0°-180°	10158.0	100.0



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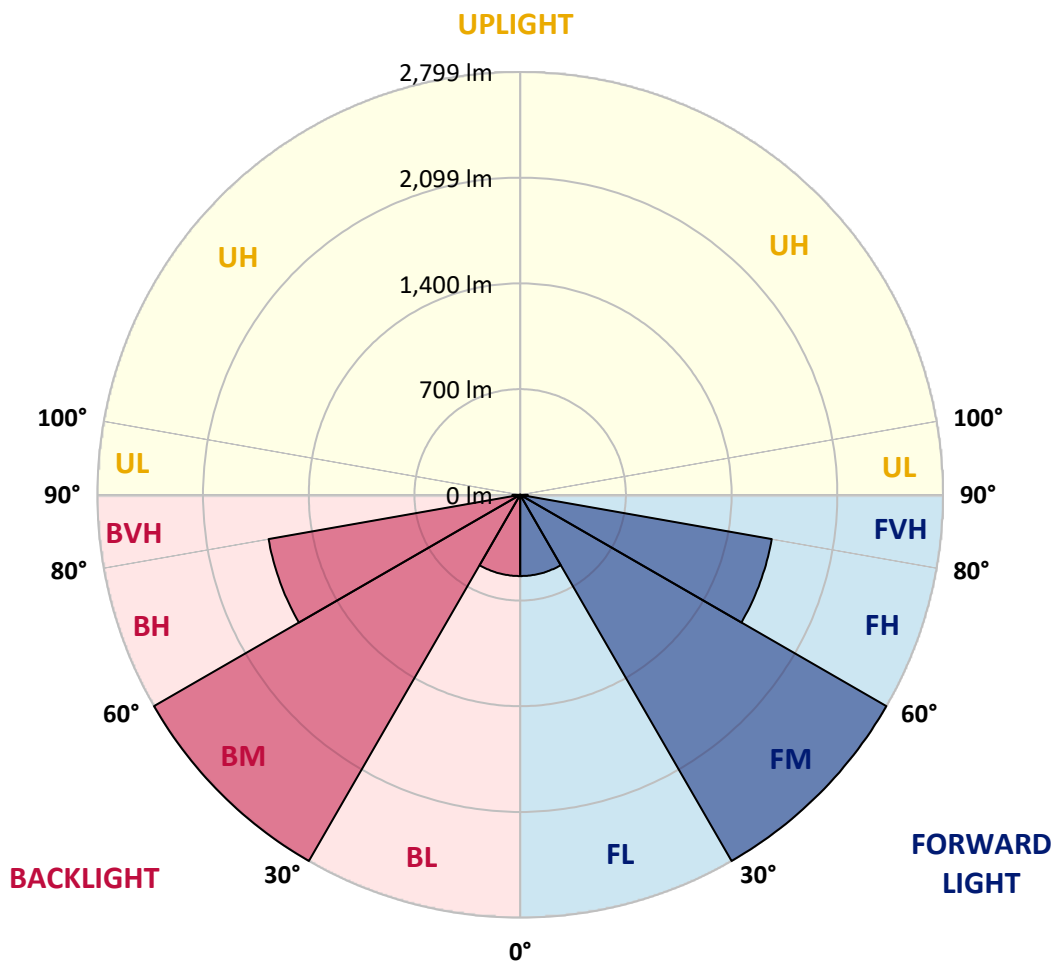
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.9	5.3			
FM	(30°-60°)	2799.3	27.6			
FH	(60°-80°)	1691.1	16.6			G1/1800
FVH	(80°-90°)	50.7	0.5			G1/100
BL	(0°-30°)	537.9	5.3	B2/1000		
BM	(30°-60°)	2799.3	27.6	B3/5000		
BH	(60°-80°)	1691.1	16.6	B3/2500		G3/2500
BVH	(80°-90°)	50.7	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-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8
2.5°	1124.8	1123.9	1124.8	1124.4	1125.3	1125.3	1126.3	1128.2	1128.2	1129.6	1129.2
5°	1113.8	1113.3	1114.8	1116.2	1117.6	1120.5	1123.4	1127.7	1131.1	1133.5	1135.9
7.5°	1092.2	1092.2	1094.1	1097.5	1100.8	1107.1	1113.8	1122.4	1131.1	1138.3	1144.5
10°	1074.4	1075.4	1077.8	1083.6	1089.3	1098.9	1108.0	1120.5	1132.5	1144.5	1154.1
12.5°	1063.9	1065.3	1069.6	1078.3	1087.9	1100.8	1114.8	1130.6	1144.0	1158.4	1168.0
15°	1067.2	1068.2	1074.4	1085.0	1097.5	1113.8	1132.5	1151.2	1167.1	1182.4	1195.4
17.5°	1086.0	1087.4	1094.6	1106.6	1119.6	1138.8	1158.9	1180.0	1199.7	1217.0	1232.9
20°	1119.6	1121.0	1130.1	1143.1	1158.4	1178.1	1198.3	1220.4	1242.5	1260.7	1278.5
22.5°	1167.1	1169.5	1178.1	1191.1	1208.4	1229.5	1253.5	1277.0	1298.1	1315.0	1330.8
25°	1229.5	1234.8	1242.9	1257.3	1275.6	1294.8	1320.7	1344.7	1364.9	1380.7	1392.2
27.5°	1317.8	1325.0	1331.3	1345.2	1363.0	1381.2	1407.1	1428.3	1447.5	1462.8	1471.5
30°	1435.0	1442.2	1448.4	1461.9	1478.2	1495.5	1519.9	1538.7	1550.7	1562.7	1562.2
32.5°	1577.1	1584.8	1587.2	1601.6	1618.4	1637.1	1659.2	1669.7	1679.3	1680.8	1672.1
35°	1736.0	1739.8	1749.4	1768.6	1787.8	1803.2	1824.3	1829.6	1829.6	1822.4	1803.2
37.5°	1910.3	1912.7	1926.1	1947.7	1967.4	1983.2	1997.6	2008.2	2002.9	1987.6	1955.4
40°	2101.3	2105.7	2124.9	2144.1	2166.1	2181.0	2196.4	2198.3	2193.0	2170.5	2126.8
42.5°	2283.8	2287.6	2306.8	2337.1	2365.9	2386.5	2400.9	2403.8	2387.0	2366.3	2312.1
45°	2440.8	2450.8	2475.8	2511.3	2553.1	2582.4	2602.1	2610.2	2595.3	2568.5	2505.6
47.5°	2565.1	2575.2	2610.7	2652.9	2704.8	2752.3	2785.0	2802.3	2798.4	2778.3	2709.6
50°	2656.3	2665.9	2704.3	2756.2	2816.7	2875.7	2931.4	2972.7	2987.1	2978.0	2915.1
52.5°	2666.9	2682.7	2727.8	2797.5	2876.2	2956.8	3036.1	3106.1	3153.7	3160.9	3114.3
55°	2519.5	2535.3	2597.7	2701.0	2818.1	2949.6	3076.4	3194.5	3288.1	3336.1	3311.6
57.5°	2171.9	2200.2	2266.0	2387.0	2559.3	2756.2	2958.3	3168.1	3358.7	3485.9	3510.4
60°	1664.5	1698.1	1764.3	1893.0	2085.0	2319.8	2589.6	2899.7	3236.3	3522.4	3693.3
62.5°	1067.7	1099.4	1169.0	1280.9	1437.4	1691.8	1981.3	2349.5	2801.8	3253.5	3660.6
65°	548.7	566.0	602.5	670.2	792.1	982.3	1242.0	1609.2	2126.3	2683.7	3272.3
67.5°	347.6	350.9	359.1	368.7	399.9	465.7	586.7	815.7	1241.0	1822.4	2511.3
70°	300.5	300.5	296.7	295.3	299.1	308.2	326.9	380.2	523.8	865.1	1448.4
72.5°	275.1	272.2	265.5	260.2	259.2	259.2	263.1	271.2	294.3	352.4	567.0
75°	253.5	245.3	236.2	230.0	227.6	225.2	224.7	226.1	230.9	240.0	270.8
77.5°	227.1	216.5	206.0	199.7	196.8	193.5	190.6	187.2	184.8	187.7	201.2
80°	195.4	183.4	175.2	171.4	168.5	163.7	157.5	151.7	146.4	145.5	153.6
82.5°	157.5	143.5	144.0	145.5	140.2	133.5	126.7	120.5	111.4	106.6	111.4
85°	127.2	120.0	116.7	125.8	118.1	108.0	97.5	86.4	72.0	60.5	65.8
87.5°	49.4	49.4	73.9	113.8	102.3	83.5	71.5	61.0	37.9	29.3	29.8
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°	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8	1126.8
2.5°	1128.7	1129.6	1129.2	1128.7	1128.7	1128.2	1128.7	1128.7
5°	1137.3	1139.7	1139.7	1140.7	1140.7	1141.2	1141.6	1141.2
7.5°	1150.3	1154.6	1157.5	1160.8	1161.3	1161.8	1162.8	1161.8
10°	1163.2	1171.9	1178.1	1184.4	1187.2	1188.2	1189.2	1189.2
12.5°	1179.6	1191.6	1202.6	1213.7	1218.9	1221.8	1221.8	1223.7
15°	1206.5	1218.5	1231.4	1246.3	1255.4	1260.2	1261.7	1261.7
17.5°	1244.4	1254.9	1266.0	1280.4	1291.9	1298.1	1299.6	1299.1
20°	1288.5	1298.6	1304.9	1314.0	1324.1	1331.3	1333.2	1333.2
22.5°	1339.0	1344.7	1345.7	1348.6	1356.7	1366.3	1370.6	1371.6
25°	1394.6	1396.1	1392.2	1392.2	1397.5	1406.6	1411.0	1411.4
27.5°	1466.7	1459.5	1449.9	1446.5	1449.9	1460.4	1465.7	1467.6
30°	1556.4	1539.2	1517.1	1505.1	1503.1	1517.1	1526.7	1528.1
32.5°	1659.2	1634.2	1604.9	1580.4	1574.2	1582.8	1594.4	1593.9
35°	1781.1	1751.3	1715.8	1684.6	1670.2	1678.9	1695.2	1697.1
37.5°	1921.8	1882.9	1842.1	1802.7	1780.2	1782.6	1799.8	1805.6
40°	2078.8	2028.4	1977.0	1924.2	1892.0	1885.8	1906.9	1910.3
42.5°	2246.8	2182.0	2117.2	2051.9	2010.6	2001.0	2025.5	2024.0
45°	2425.9	2343.3	2267.4	2195.4	2146.5	2132.1	2152.2	2152.2
47.5°	2618.4	2516.6	2426.3	2344.7	2291.4	2270.8	2290.0	2291.4
50°	2822.4	2714.4	2608.3	2517.6	2453.7	2427.3	2452.3	2456.1
52.5°	3025.5	2920.4	2813.3	2709.6	2632.3	2600.1	2628.9	2641.4
55°	3231.5	3128.2	3026.0	2924.7	2833.0	2795.1	2825.8	2841.6
57.5°	3448.9	3353.4	3255.9	3153.7	3065.3	3006.3	3038.9	3060.1
60°	3703.9	3622.2	3520.9	3408.1	3318.8	3258.8	3277.5	3296.3
62.5°	3905.5	3937.2	3851.2	3720.7	3605.9	3529.1	3547.3	3567.0
65°	3808.0	4133.0	4209.4	4077.4	3918.5	3798.9	3791.2	3801.3
67.5°	3183.0	3814.3	4274.7	4400.5	4267.5	4101.4	4070.6	4085.5
70°	2129.2	2915.6	3727.9	4332.8	4493.6	4429.3	4399.0	4408.1
72.5°	1022.6	1698.1	2529.1	3333.2	3822.9	4047.6	4119.6	4154.7
75°	374.0	674.0	1218.9	1836.8	2217.5	2567.0	2795.1	2888.2
77.5°	225.6	272.2	389.3	586.2	664.0	743.2	712.4	727.8
80°	167.1	188.7	213.6	240.0	248.7	248.7	239.1	231.4
82.5°	117.1	131.1	143.1	157.5	161.3	154.1	126.7	100.8
85°	75.4	81.6	86.9	96.0	93.6	89.3	60.0	53.3
87.5°	34.6	39.4	41.3	45.6	43.7	41.8	29.8	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)