

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: P199942

Luminaire Tested: **GWC-AF-02-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199942  
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: GWC-AF-02-LED-E1-RW-7030-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9921.8 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

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: 25 FT

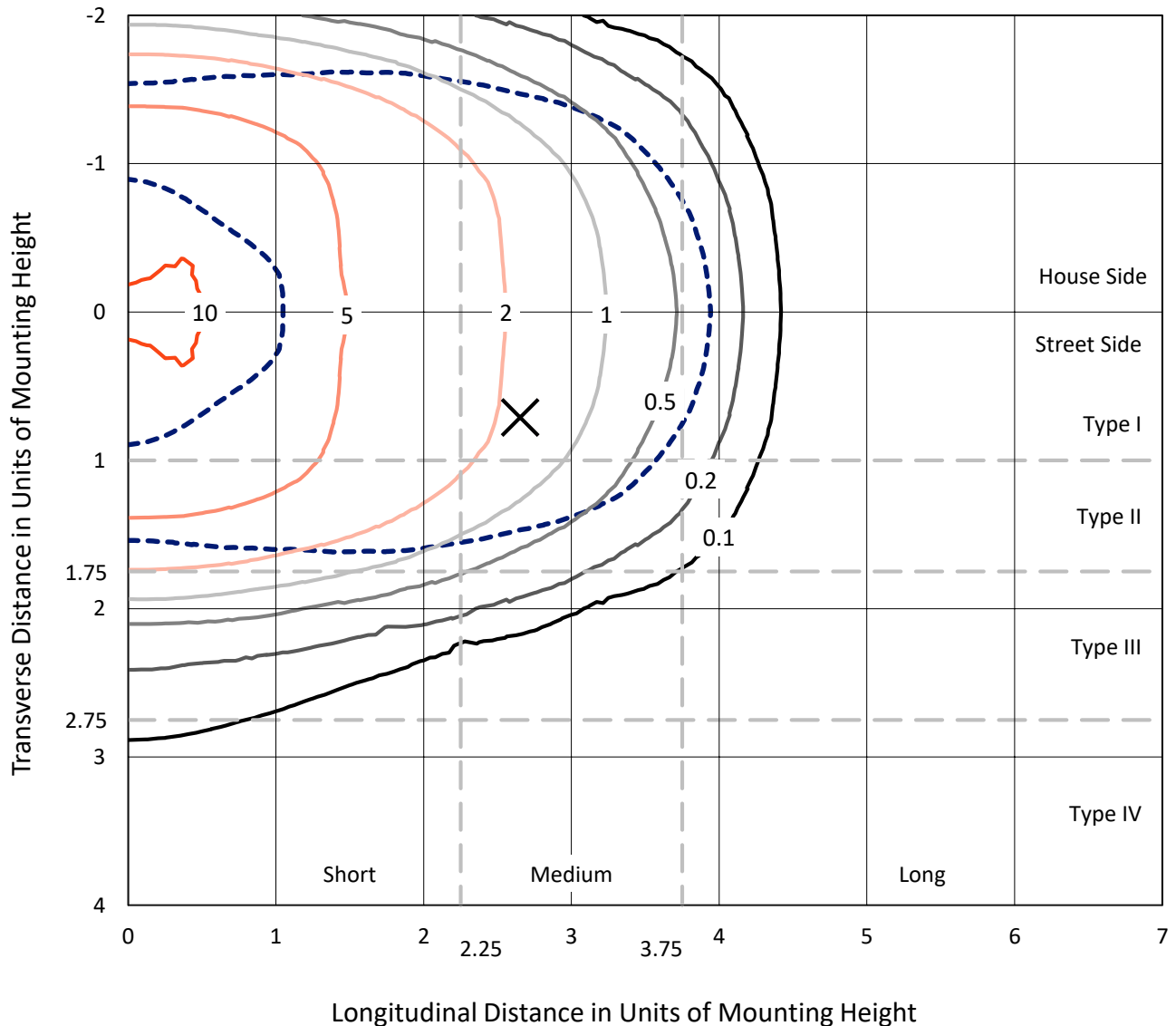


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

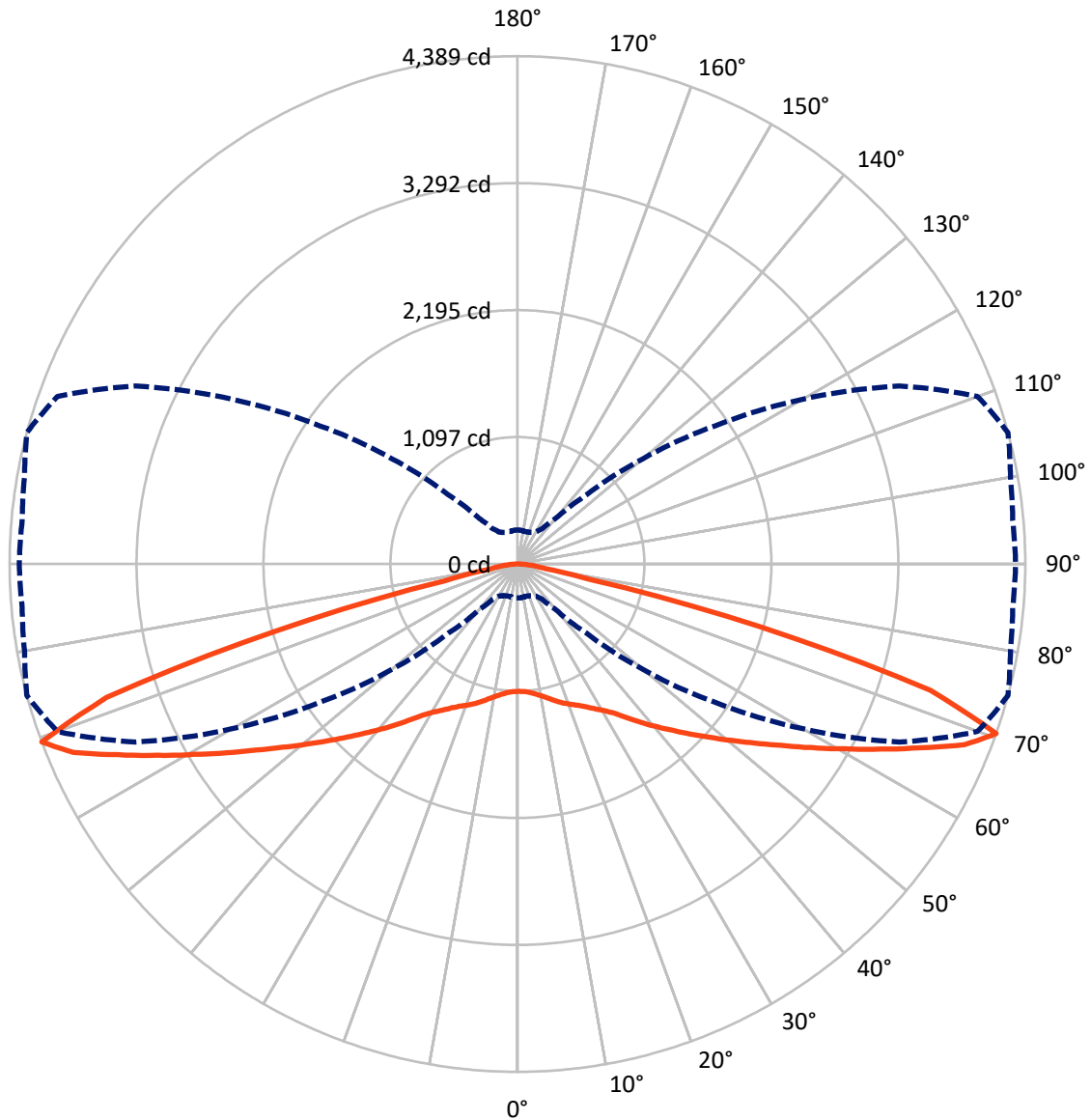


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



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

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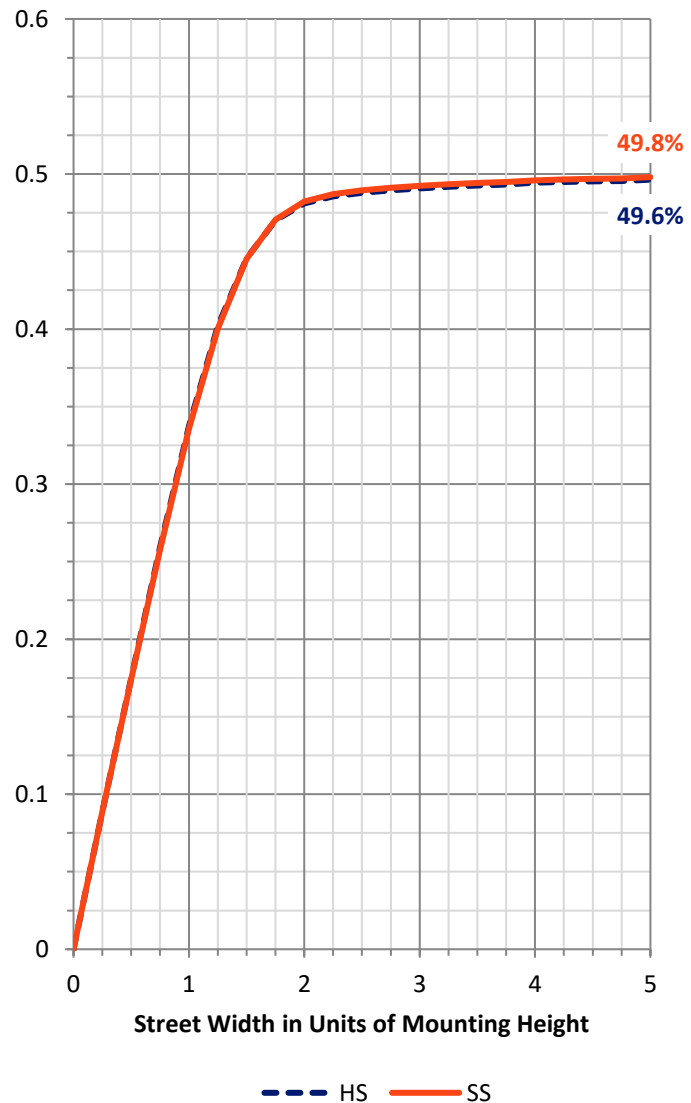
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4960.9	0.0	4960.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4960.9	0.0	4960.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9921.8	0.0	9921.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.6	1.1
10°-20°	328.0	3.3
20°-30°	617.3	6.2
30°-40°	1093.1	11.0
40°-50°	1828.0	18.4
50°-60°	2547.3	25.7
60°-70°	2362.2	23.8
70°-80°	941.4	9.5
80°-90°	99.0	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°	9921.8	100.0
0°-180°	9921.8	100.0



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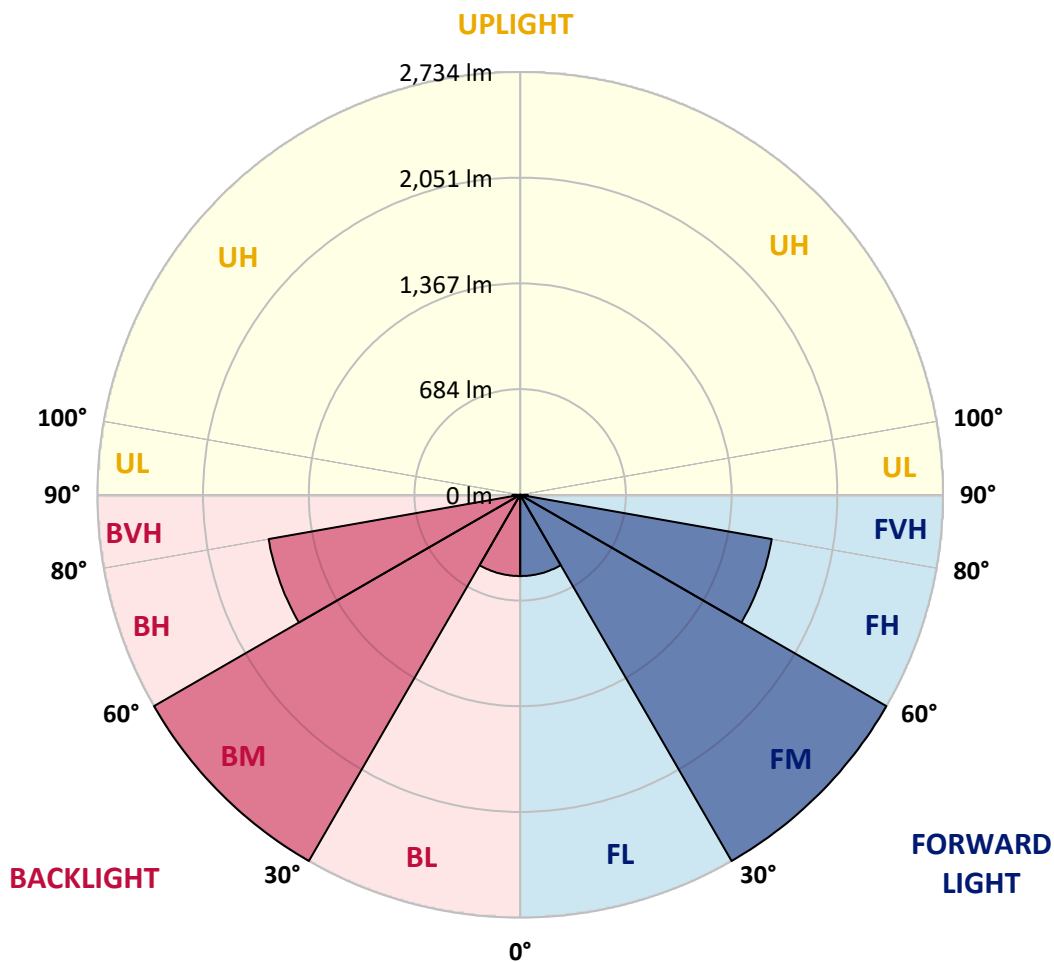
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.4	5.3			
FM	(30°-60°)	2734.2	27.6			
FH	(60°-80°)	1651.8	16.6			G1/1800
FVH	(80°-90°)	49.5	0.5			G1/100
BL	(0°-30°)	525.4	5.3	B2/1000		
BM	(30°-60°)	2734.2	27.6	B3/5000		
BH	(60°-80°)	1651.8	16.6	B3/2500		G3/2500
BVH	(80°-90°)	49.5	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°	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6
2.5°	1098.7	1097.7	1098.7	1098.2	1099.1	1099.1	1100.1	1102.0	1102.0	1103.4	1102.9
5°	1087.9	1087.4	1088.9	1090.3	1091.6	1094.4	1097.3	1101.6	1104.8	1107.2	1109.4
7.5°	1066.8	1066.8	1068.7	1072.0	1075.2	1081.3	1087.9	1096.3	1104.8	1111.8	1117.9
10°	1049.4	1050.4	1052.7	1058.4	1063.9	1073.4	1082.3	1094.4	1106.1	1117.9	1127.3
12.5°	1039.2	1040.5	1044.7	1053.1	1062.5	1075.2	1088.9	1104.3	1117.4	1131.5	1140.8
15°	1042.5	1043.3	1049.4	1059.9	1072.0	1087.9	1106.1	1124.5	1139.9	1155.0	1167.7
17.5°	1060.7	1062.1	1069.1	1080.9	1093.5	1112.3	1131.9	1152.5	1171.8	1188.7	1204.1
20°	1093.5	1094.9	1103.8	1116.5	1131.5	1150.7	1170.3	1192.0	1213.6	1231.4	1248.8
22.5°	1139.9	1142.3	1150.7	1163.4	1180.3	1200.9	1224.4	1247.3	1268.0	1284.4	1299.8
25°	1200.9	1206.1	1214.1	1228.1	1245.9	1264.6	1290.1	1313.4	1333.2	1348.6	1359.8
27.5°	1287.2	1294.1	1300.3	1314.0	1331.4	1349.2	1374.4	1395.0	1413.9	1428.8	1437.2
30°	1401.6	1408.7	1414.7	1427.9	1443.9	1460.7	1484.7	1502.9	1514.7	1526.4	1526.0
32.5°	1540.4	1547.8	1550.3	1564.4	1580.8	1599.0	1620.7	1630.9	1640.3	1641.7	1633.2
35°	1695.6	1699.4	1708.7	1727.5	1746.3	1761.3	1781.9	1787.1	1787.1	1780.1	1761.3
37.5°	1865.8	1868.3	1881.3	1902.4	1921.7	1937.1	1951.2	1961.5	1956.4	1941.3	1910.0
40°	2052.4	2056.7	2075.5	2094.2	2115.8	2130.3	2145.3	2147.2	2142.0	2119.9	2077.3
42.5°	2230.6	2234.5	2253.2	2282.8	2310.9	2331.0	2345.0	2347.9	2331.5	2311.3	2258.3
45°	2384.0	2393.9	2418.2	2453.0	2493.8	2522.4	2541.6	2549.6	2535.1	2508.7	2447.3
47.5°	2505.5	2515.2	2550.0	2591.3	2641.9	2688.4	2720.2	2737.1	2733.3	2713.7	2646.6
50°	2594.6	2603.9	2641.5	2692.0	2751.1	2808.8	2863.2	2903.6	2917.7	2908.7	2847.3
52.5°	2604.8	2620.4	2664.4	2732.5	2809.3	2888.0	2965.6	3033.9	3080.3	3087.3	3041.9
55°	2460.9	2476.4	2537.3	2638.2	2752.6	2881.0	3004.8	3120.2	3211.6	3258.5	3234.6
57.5°	2121.4	2149.0	2213.3	2331.5	2499.9	2692.0	2889.5	3094.4	3280.6	3404.8	3428.8
60°	1625.8	1658.5	1723.3	1849.0	2036.5	2265.8	2529.4	2832.3	3161.0	3440.5	3607.4
62.5°	1042.9	1073.8	1141.9	1251.1	1404.0	1652.4	1935.2	2294.9	2736.6	3178.0	3575.5
65°	536.0	552.9	588.5	654.6	773.8	959.4	1213.1	1571.8	2076.9	2621.2	3196.2
67.5°	339.5	342.7	350.7	360.1	390.6	454.8	573.1	796.7	1212.1	1780.1	2453.0
70°	293.6	293.6	289.7	288.3	292.2	301.0	319.4	371.4	511.6	845.0	1414.7
72.5°	268.7	265.8	259.3	254.1	253.3	253.3	257.0	265.0	287.5	344.1	553.8
75°	247.6	239.6	230.7	224.6	222.3	219.9	219.5	220.8	225.5	234.5	264.5
77.5°	221.8	211.5	201.1	195.0	192.3	189.0	186.2	182.9	180.5	183.3	196.4
80°	190.8	179.0	171.2	167.3	164.6	159.9	153.8	148.1	143.0	142.0	150.0
82.5°	153.8	140.2	140.7	142.0	136.9	130.3	123.8	117.7	108.8	104.2	108.8
85°	124.2	117.2	113.9	122.8	115.4	105.6	95.2	84.4	70.4	59.1	64.3
87.5°	48.3	48.3	72.2	111.1	99.9	81.6	69.8	59.5	37.0	28.6	29.1
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°	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6
2.5°	1102.4	1103.4	1102.9	1102.4	1102.4	1102.0	1102.4	1102.4
5°	1110.8	1113.3	1113.3	1114.1	1114.1	1114.7	1115.1	1114.7
7.5°	1123.5	1127.8	1130.7	1133.9	1134.3	1134.7	1135.8	1134.7
10°	1136.2	1144.6	1150.7	1156.8	1159.7	1160.6	1161.5	1161.5
12.5°	1152.1	1163.8	1174.6	1185.5	1190.6	1193.4	1193.4	1195.3
15°	1178.4	1190.2	1202.8	1217.3	1226.2	1231.0	1232.3	1232.3
17.5°	1215.4	1225.8	1236.6	1250.6	1261.8	1268.0	1269.4	1268.9
20°	1258.5	1268.4	1274.5	1283.5	1293.3	1300.3	1302.2	1302.2
22.5°	1307.9	1313.4	1314.4	1317.2	1325.2	1334.6	1338.8	1339.7
25°	1362.3	1363.7	1359.8	1359.8	1365.0	1373.9	1378.2	1378.7
27.5°	1432.6	1425.5	1416.1	1412.8	1416.1	1426.5	1431.7	1433.5
30°	1520.3	1503.4	1481.8	1470.1	1468.2	1481.8	1491.2	1492.6
32.5°	1620.7	1596.2	1567.7	1543.8	1537.6	1546.0	1557.3	1556.8
35°	1739.7	1710.7	1675.9	1645.5	1631.4	1639.9	1655.8	1657.7
37.5°	1877.1	1839.2	1799.3	1760.8	1738.8	1741.1	1758.0	1763.7
40°	2030.5	1981.2	1931.0	1879.5	1848.0	1841.9	1862.6	1865.8
42.5°	2194.6	2131.2	2068.0	2004.2	1963.8	1954.4	1978.3	1976.9
45°	2369.5	2288.8	2214.6	2144.4	2096.5	2082.5	2102.1	2102.1
47.5°	2557.5	2458.2	2370.0	2290.2	2238.1	2218.0	2236.7	2238.1
50°	2756.8	2651.2	2547.7	2459.0	2396.7	2370.9	2395.3	2399.0
52.5°	2955.1	2852.4	2747.9	2646.6	2571.1	2539.7	2567.8	2580.0
55°	3156.3	3055.6	2955.6	2856.7	2767.1	2730.1	2760.1	2775.5
57.5°	3368.8	3275.4	3180.2	3080.3	2994.0	2936.4	2968.2	2988.9
60°	3617.8	3538.1	3439.1	3328.9	3241.6	3183.0	3201.3	3219.7
62.5°	3814.7	3845.6	3761.7	3634.2	3522.1	3447.0	3464.8	3484.1
65°	3719.5	4036.9	4111.5	3982.6	3827.4	3710.6	3703.2	3712.9
67.5°	3109.0	3725.6	4175.4	4298.2	4168.2	4006.0	3976.0	3990.5
70°	2079.6	2847.8	3641.2	4232.0	4389.2	4326.3	4296.7	4305.7
72.5°	998.8	1658.5	2470.3	3255.7	3734.1	3953.4	4023.8	4058.1
75°	365.3	658.4	1190.6	1794.1	2165.9	2507.3	2730.1	2821.1
77.5°	220.3	265.8	380.3	572.5	648.6	725.9	695.9	710.8
80°	163.3	184.3	208.6	234.5	242.9	242.9	233.5	226.0
82.5°	114.4	128.1	139.8	153.8	157.6	150.6	123.8	98.5
85°	73.6	79.8	84.9	93.8	91.4	87.2	58.6	52.0
87.5°	33.8	38.5	40.3	44.6	42.7	40.8	29.1	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)