

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: P300662

Luminaire Tested: **GLNA-AF-02-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300662  
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: GLNA-AF-02-LED-E1-RW-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular  
Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

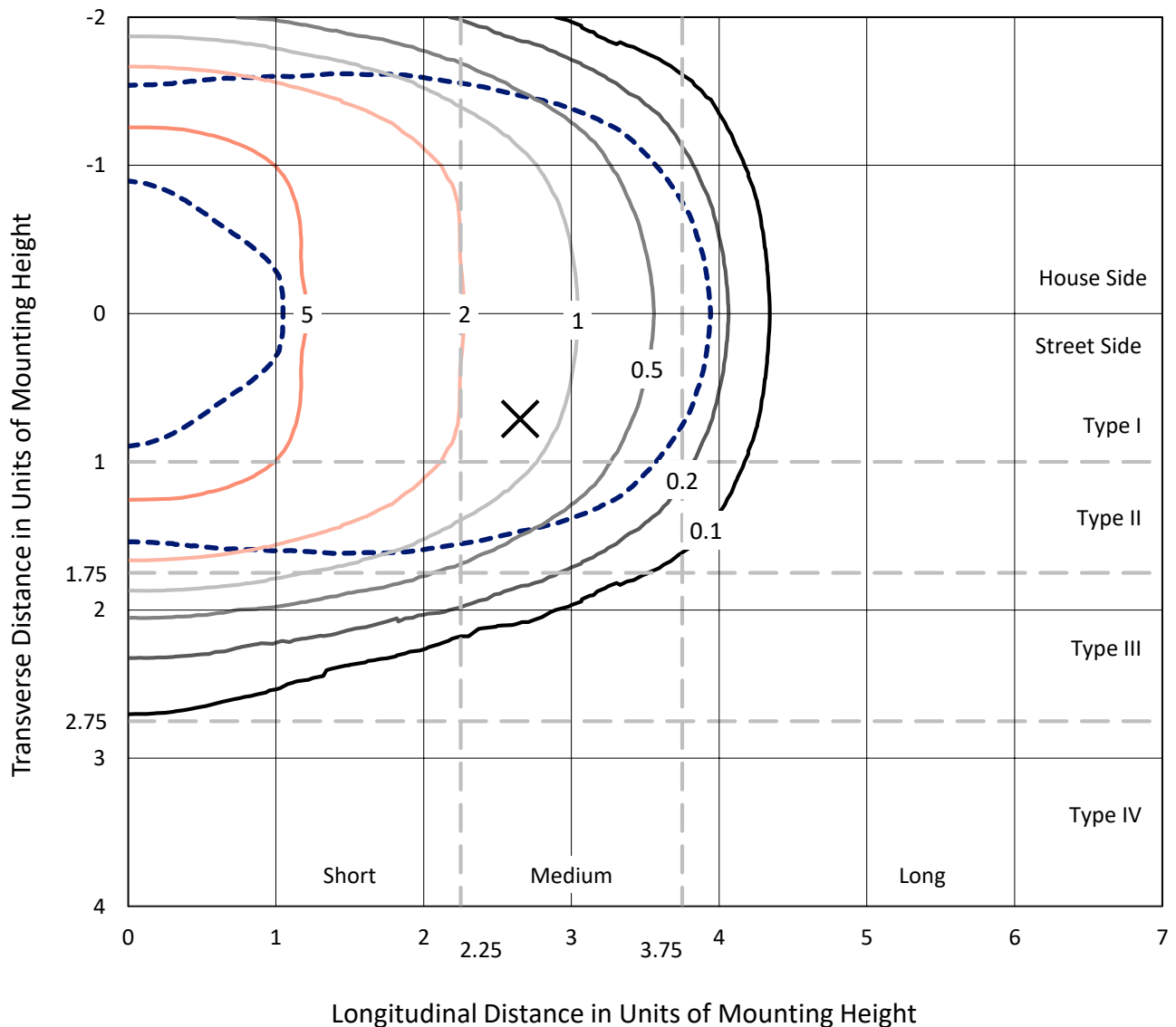
Lumens per Lamp: N/A  
Luminaire Lumens: 7905.4 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (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

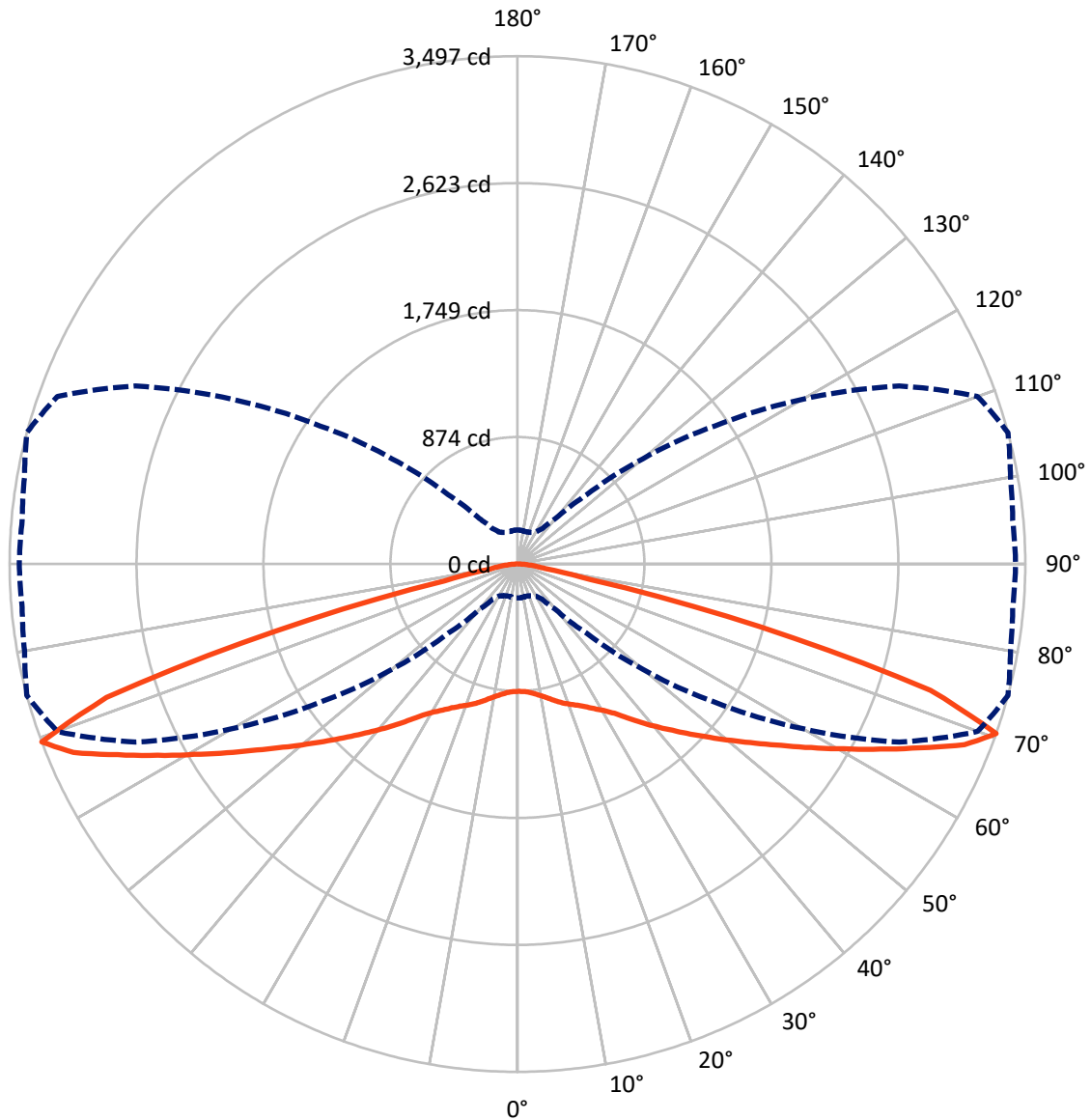
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 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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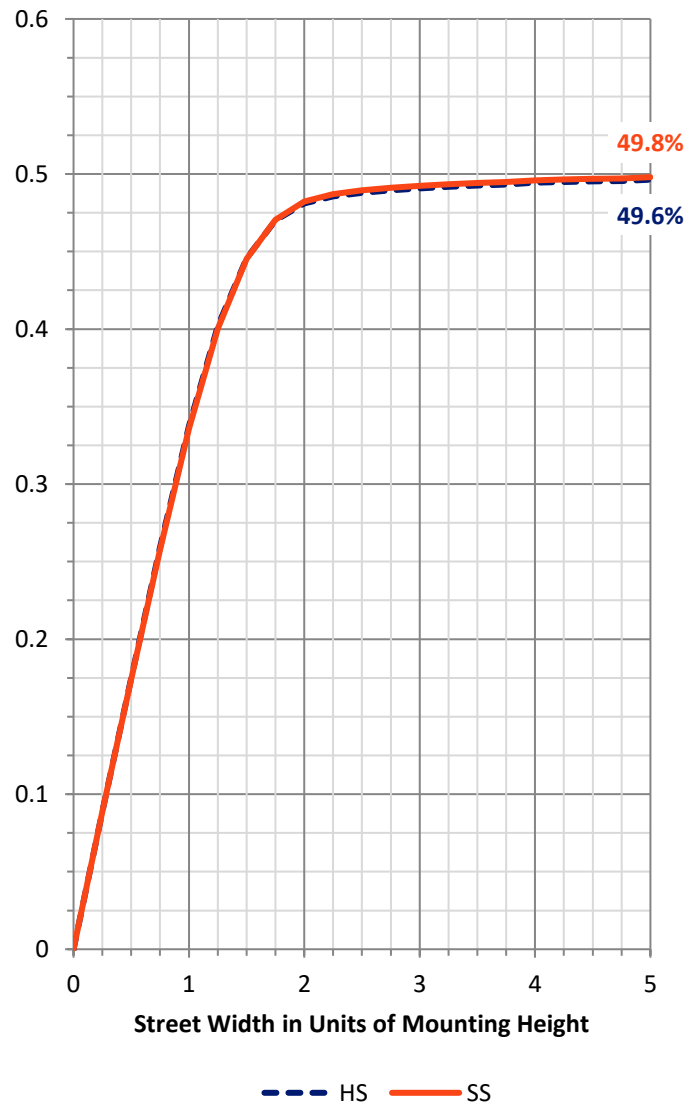
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3952.7	0.0	3952.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3952.7	0.0	3952.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7905.4	0.0	7905.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	1.1
10°-20°	261.3	3.3
20°-30°	491.8	6.2
30°-40°	870.9	11.0
40°-50°	1456.5	18.4
50°-60°	2029.6	25.7
60°-70°	1882.1	23.8
70°-80°	750.1	9.5
80°-90°	78.8	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°	7905.4	100.0
0°-180°	7905.4	100.0



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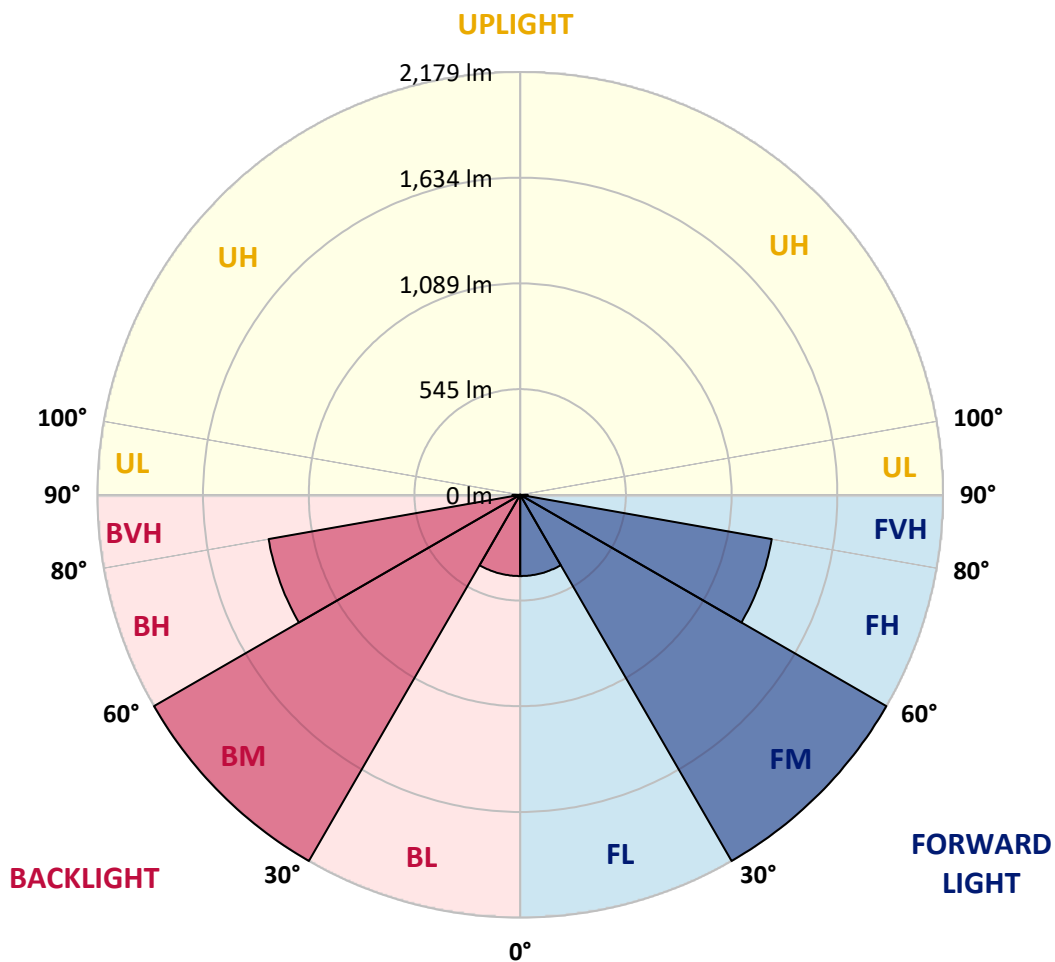
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	418.6	5.3			
FM	(30°-60°)	2178.5	27.6			
FH	(60°-80°)	1316.1	16.6			G1/1800
FVH	(80°-90°)	39.4	0.5			G1/100
BL	(0°-30°)	418.6	5.3	B1/500		
BM	(30°-60°)	2178.5	27.6	B2/2500		
BH	(60°-80°)	1316.1	16.6	B3/2500		G3/2500
BVH	(80°-90°)	39.4	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°	876.9	876.9	876.9	876.9	876.9	876.9	876.9	876.9	876.9	876.9	876.9
2.5°	875.4	874.6	875.4	875.0	875.8	875.8	876.5	878.0	878.0	879.1	878.8
5°	866.8	866.4	867.5	868.7	869.8	872.0	874.3	877.6	880.3	882.1	884.0
7.5°	850.0	850.0	851.5	854.1	856.7	861.6	866.8	873.5	880.3	885.9	890.7
10°	836.2	836.9	838.8	843.3	847.7	855.2	862.3	872.0	881.4	890.7	898.2
12.5°	827.9	829.1	832.4	839.2	846.6	856.7	867.5	879.9	890.3	901.5	909.0
15°	830.6	831.3	836.2	844.4	854.1	866.8	881.4	895.9	908.3	920.2	930.3
17.5°	845.1	846.3	851.9	861.2	871.3	886.2	901.9	918.4	933.7	947.1	959.5
20°	871.3	872.4	879.5	889.6	901.5	916.9	932.6	949.7	966.9	981.1	995.0
22.5°	908.3	910.1	916.9	927.0	940.4	956.8	975.5	993.8	1010.3	1023.3	1035.7
25°	956.8	961.0	967.3	978.5	992.7	1007.7	1027.8	1046.5	1062.2	1074.5	1083.5
27.5°	1025.6	1031.2	1036.1	1046.9	1060.7	1074.9	1095.1	1111.5	1126.5	1138.4	1145.1
30°	1116.8	1122.4	1127.2	1137.7	1150.4	1163.8	1182.9	1197.5	1206.8	1216.1	1215.8
32.5°	1227.3	1233.3	1235.2	1246.4	1259.5	1274.0	1291.2	1299.5	1306.9	1308.0	1301.3
35°	1351.0	1354.0	1361.5	1376.4	1391.4	1403.3	1419.8	1423.9	1423.9	1418.3	1403.3
37.5°	1486.6	1488.5	1499.0	1515.8	1531.1	1543.4	1554.6	1562.9	1558.7	1546.8	1521.8
40°	1635.3	1638.7	1653.6	1668.6	1685.8	1697.4	1709.3	1710.8	1706.7	1689.1	1655.1
42.5°	1777.3	1780.3	1795.2	1818.8	1841.2	1857.3	1868.5	1870.7	1857.6	1841.6	1799.4
45°	1899.5	1907.3	1926.8	1954.4	1986.9	2009.7	2025.0	2031.4	2019.8	1998.9	1949.9
47.5°	1996.3	2004.1	2031.8	2064.6	2105.0	2142.0	2167.4	2180.8	2177.8	2162.1	2108.7
50°	2067.2	2074.7	2104.6	2145.0	2192.0	2238.0	2281.3	2313.5	2324.7	2317.6	2268.6
52.5°	2075.5	2087.8	2122.9	2177.1	2238.4	2301.1	2362.8	2417.3	2454.3	2459.9	2423.7
55°	1960.8	1973.1	2021.7	2102.0	2193.2	2295.5	2394.2	2486.1	2558.9	2596.3	2577.2
57.5°	1690.3	1712.3	1763.5	1857.6	1991.8	2145.0	2302.3	2465.5	2613.9	2712.9	2731.9
60°	1295.3	1321.5	1373.1	1473.2	1622.6	1805.3	2015.3	2256.7	2518.6	2741.3	2874.3
62.5°	830.9	855.6	909.8	996.8	1118.6	1316.6	1541.9	1828.5	2180.5	2532.0	2848.9
65°	427.0	440.5	468.9	521.6	616.5	764.4	966.6	1252.4	1654.8	2088.5	2546.6
67.5°	270.5	273.1	279.5	286.9	311.2	362.4	456.6	634.8	965.8	1418.3	1954.4
70°	233.9	233.9	230.9	229.8	232.8	239.9	254.4	295.9	407.6	673.3	1127.2
72.5°	214.1	211.8	206.6	202.5	201.8	201.8	204.7	211.1	229.0	274.2	441.2
75°	197.3	190.9	183.8	179.0	177.1	175.2	174.9	176.0	179.7	186.8	210.7
77.5°	176.7	168.5	160.3	155.4	153.2	150.6	148.3	145.7	143.8	146.1	156.5
80°	152.1	142.7	136.4	133.4	131.1	127.4	122.5	118.1	114.0	113.2	119.6
82.5°	122.5	111.7	112.1	113.2	109.1	103.9	98.6	93.8	86.7	82.9	86.7
85°	99.0	93.4	90.8	97.9	91.9	84.1	75.8	67.3	56.0	47.1	51.2
87.5°	38.5	38.5	57.5	88.5	79.6	65.0	55.7	47.4	29.5	22.8	23.2
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°	876.9	876.9	876.9	876.9	876.9	876.9	876.9	876.9
2.5°	878.4	879.1	878.8	878.4	878.4	878.0	878.4	878.4
5°	885.1	887.0	887.0	887.7	887.7	888.1	888.5	888.1
7.5°	895.2	898.6	900.8	903.4	903.8	904.2	904.9	904.2
10°	905.3	912.0	916.9	921.7	924.0	924.7	925.5	925.5
12.5°	918.0	927.3	935.9	944.5	948.6	950.9	950.9	952.4
15°	938.9	948.3	958.3	969.9	977.0	980.8	981.9	981.9
17.5°	968.4	976.6	985.2	996.4	1005.4	1010.3	1011.4	1011.0
20°	1002.8	1010.6	1015.5	1022.6	1030.4	1036.1	1037.5	1037.5
22.5°	1042.0	1046.5	1047.3	1049.5	1055.9	1063.3	1066.7	1067.4
25°	1085.4	1086.5	1083.5	1083.5	1087.6	1094.7	1098.1	1098.4
27.5°	1141.4	1135.8	1128.3	1125.7	1128.3	1136.6	1140.7	1142.2
30°	1211.3	1197.8	1180.6	1171.3	1169.8	1180.6	1188.1	1189.2
32.5°	1291.2	1271.8	1249.0	1230.0	1225.1	1231.8	1240.8	1240.4
35°	1386.1	1363.0	1335.3	1311.0	1299.8	1306.6	1319.3	1320.8
37.5°	1495.6	1465.3	1433.6	1402.9	1385.4	1387.3	1400.7	1405.2
40°	1617.8	1578.5	1538.6	1497.5	1472.4	1467.6	1484.0	1486.6
42.5°	1748.5	1698.1	1647.7	1596.9	1564.7	1557.3	1576.3	1575.2
45°	1887.9	1823.6	1764.6	1708.6	1670.5	1659.3	1674.9	1674.9
47.5°	2037.7	1958.5	1888.3	1824.8	1783.3	1767.2	1782.2	1783.3
50°	2196.5	2112.5	2029.9	1959.3	1909.6	1889.0	1908.5	1911.4
52.5°	2354.6	2272.7	2189.4	2108.7	2048.6	2023.5	2045.9	2055.7
55°	2514.8	2434.5	2354.9	2276.1	2204.7	2175.2	2199.1	2211.5
57.5°	2684.1	2609.7	2533.9	2454.3	2385.6	2339.6	2365.0	2381.5
60°	2882.5	2819.0	2740.1	2652.3	2582.8	2536.1	2550.7	2565.3
62.5°	3039.4	3064.1	2997.2	2895.6	2806.3	2746.5	2760.7	2776.0
65°	2963.6	3216.5	3275.9	3173.2	3049.5	2956.5	2950.5	2958.3
67.5°	2477.1	2968.4	3326.7	3424.6	3321.1	3191.8	3167.9	3179.5
70°	1657.0	2269.0	2901.2	3371.9	3497.1	3447.0	3423.5	3430.6
72.5°	795.8	1321.5	1968.2	2594.1	2975.1	3150.0	3206.0	3233.3
75°	291.1	524.6	948.6	1429.5	1725.8	1997.8	2175.2	2247.7
77.5°	175.6	211.8	303.0	456.2	516.7	578.4	554.5	566.4
80°	130.0	146.8	166.3	186.8	193.5	193.5	186.1	180.1
82.5°	91.2	102.0	111.3	122.5	125.5	119.9	98.6	78.5
85°	58.7	63.5	67.6	74.7	72.9	69.5	46.7	41.5
87.5°	26.9	30.6	32.1	35.5	34.0	32.5	23.2	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)