

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: P300536

Luminaire Tested: **GLNA-AF-01-LED-E1-RW-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300536  
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-01-LED-E1-RW-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND  
Rectangular Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

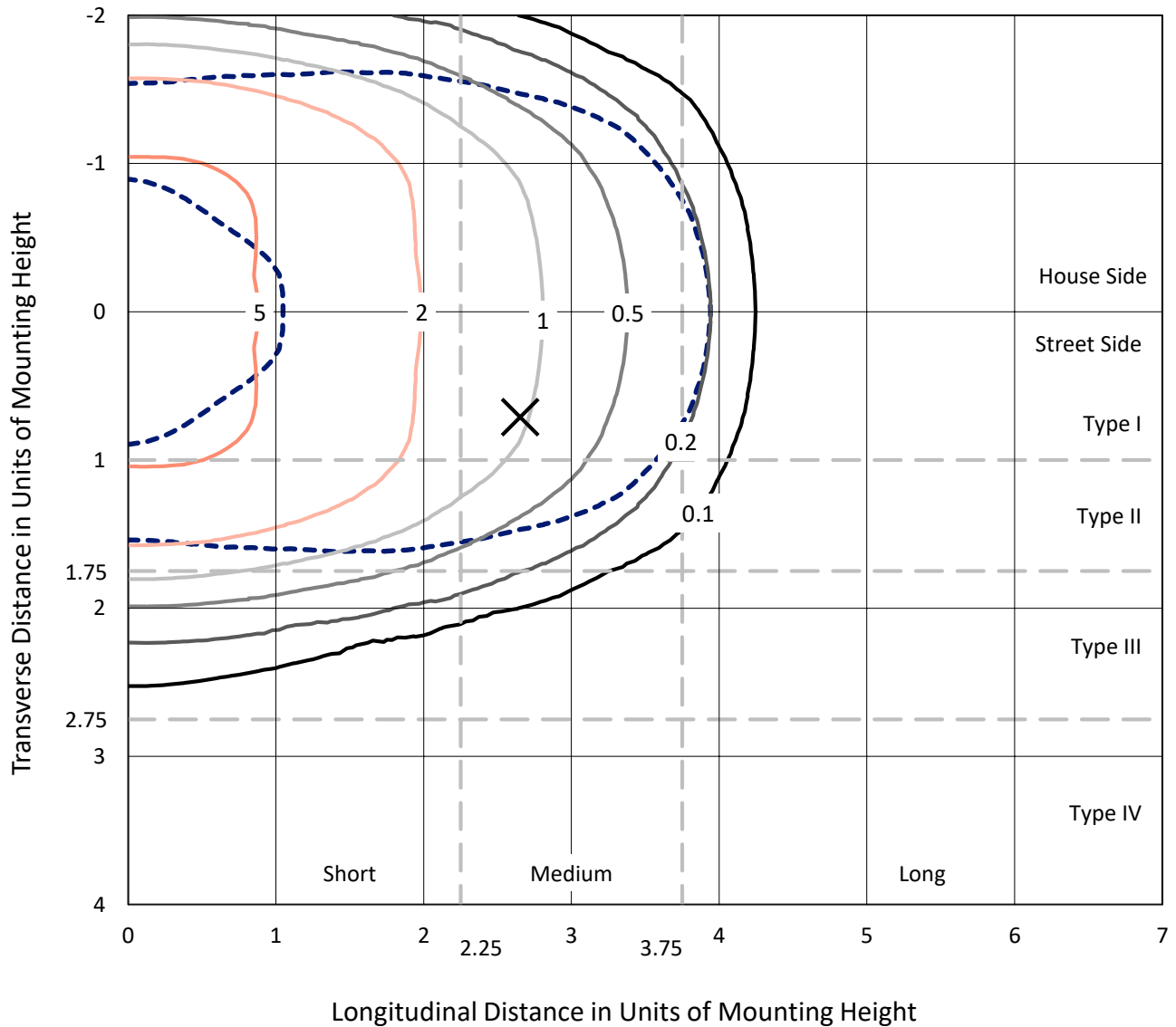
Lumens per Lamp: N/A  
Luminaire Lumens: 6141.2 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (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

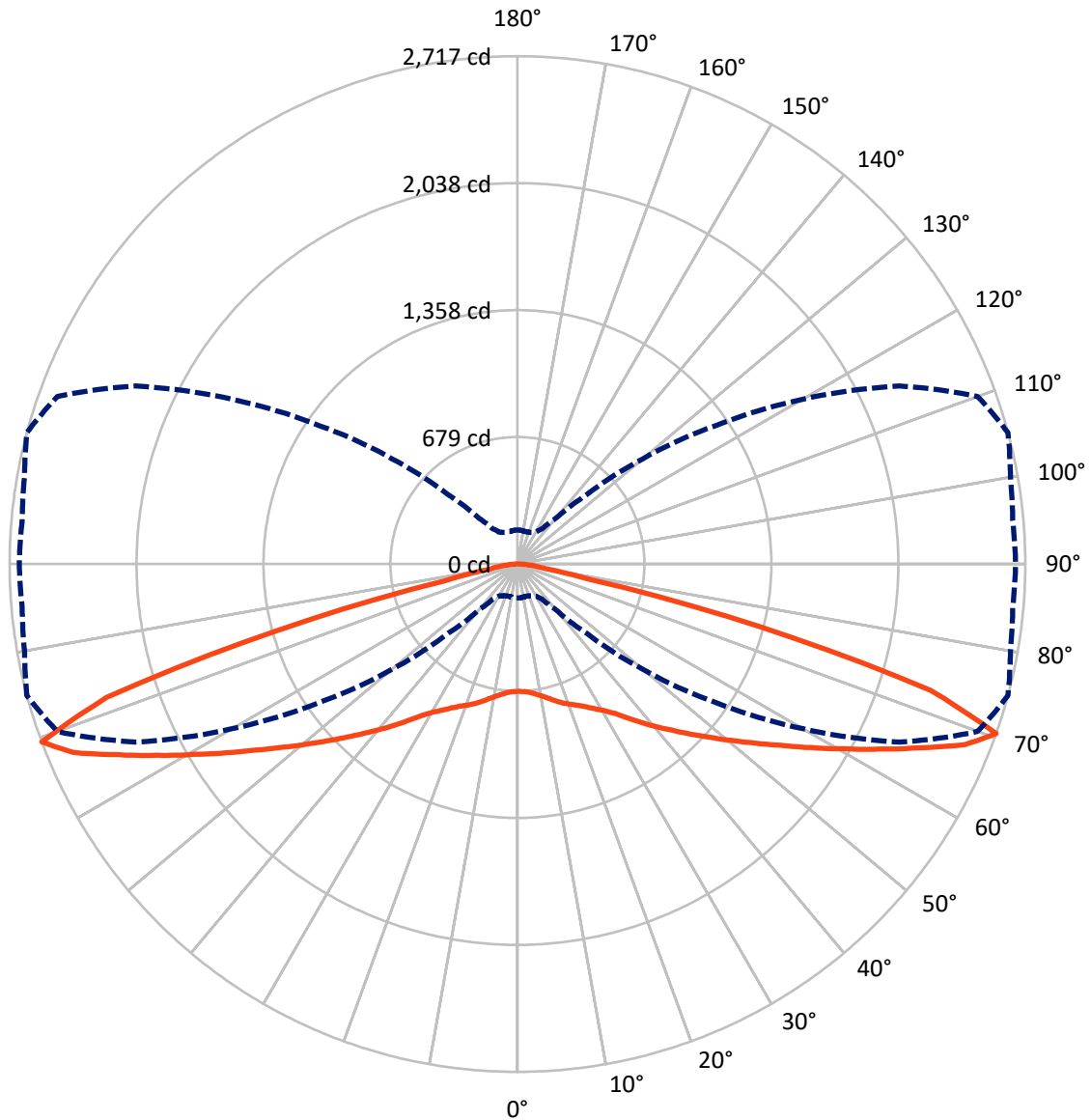
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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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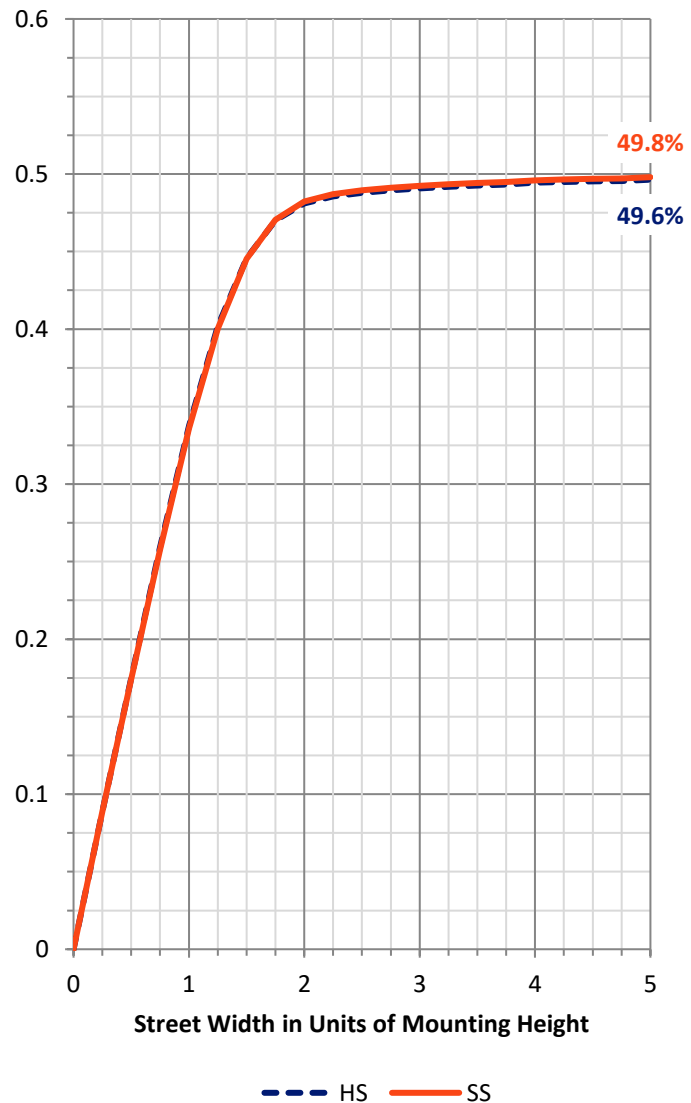
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3070.6	0.0	3070.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3070.6	0.0	3070.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6141.2	0.0	6141.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.3	1.1
10°-20°	203.0	3.3
20°-30°	382.1	6.2
30°-40°	676.6	11.0
40°-50°	1131.5	18.4
50°-60°	1576.7	25.7
60°-70°	1462.1	23.8
70°-80°	582.7	9.5
80°-90°	61.2	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°	6141.2	100.0
0°-180°	6141.2	100.0



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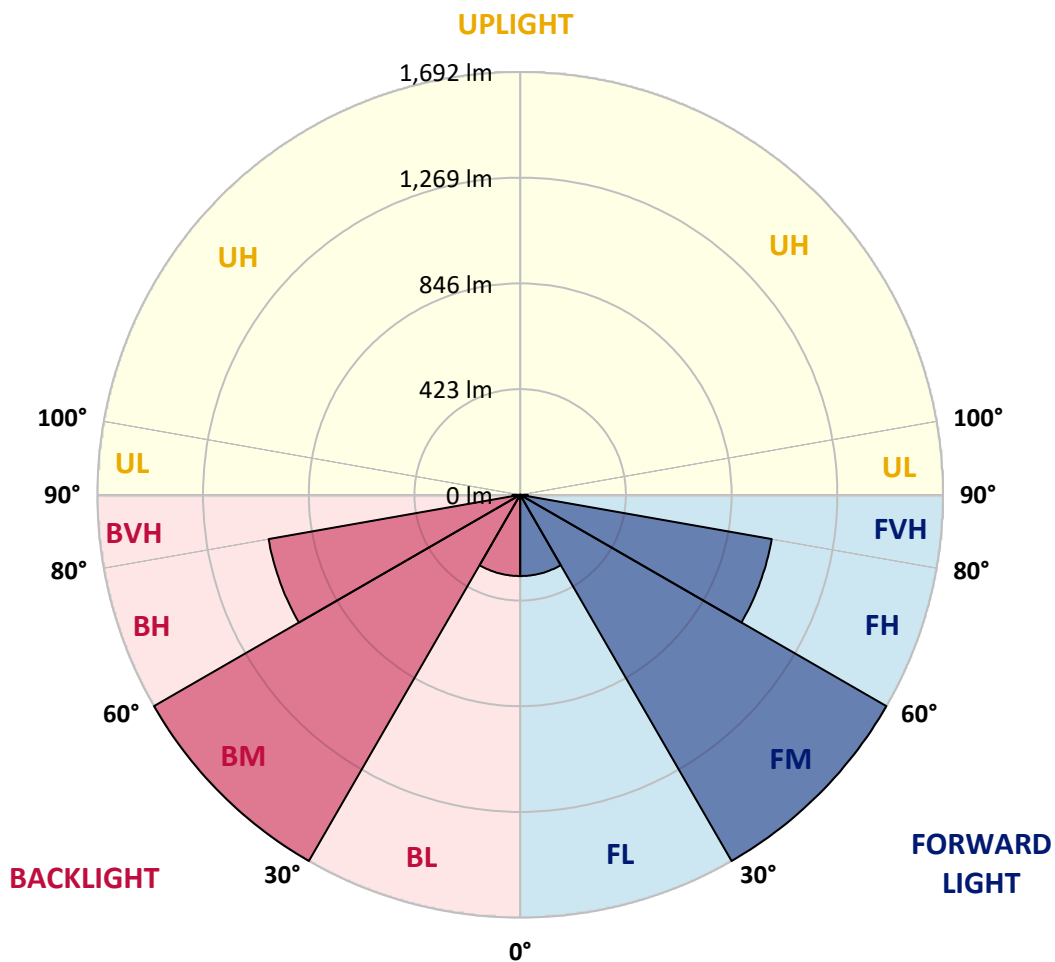
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.2	5.3			
FM	(30°-60°)	1692.4	27.6			
FH	(60°-80°)	1022.4	16.6			G1/1800
FVH	(80°-90°)	30.6	0.5			G1/100
BL	(0°-30°)	325.2	5.3	B1/500		
BM	(30°-60°)	1692.4	27.6	B2/2500		
BH	(60°-80°)	1022.4	16.6	B3/2500		G3/2500
BVH	(80°-90°)	30.6	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°	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2
2.5°	680.0	679.5	680.0	679.8	680.3	680.3	680.9	682.1	682.1	682.9	682.7
5°	673.4	673.1	673.9	674.8	675.7	677.4	679.2	681.8	683.8	685.3	686.7
7.5°	660.3	660.3	661.5	663.5	665.5	669.3	673.4	678.6	683.8	688.2	691.9
10°	649.6	650.1	651.6	655.1	658.6	664.4	669.9	677.4	684.7	691.9	697.7
12.5°	643.2	644.1	646.7	651.9	657.7	665.5	673.9	683.5	691.7	700.4	706.2
15°	645.2	645.8	649.6	656.0	663.5	673.4	684.7	696.0	705.6	714.9	722.7
17.5°	656.5	657.4	661.8	669.0	676.9	688.5	700.7	713.4	725.3	735.8	745.3
20°	676.9	677.7	683.2	691.1	700.4	712.3	724.5	737.8	751.2	762.2	772.9
22.5°	705.6	707.0	712.3	720.1	730.5	743.3	757.8	772.1	784.8	795.0	804.6
25°	743.3	746.5	751.4	760.2	771.2	782.8	798.5	813.0	825.2	834.7	841.7
27.5°	796.7	801.1	804.8	813.3	824.0	835.0	850.7	863.5	875.1	884.4	889.6
30°	867.5	871.9	875.7	883.8	893.7	904.1	918.9	930.2	937.5	944.7	944.5
32.5°	953.5	958.1	959.5	968.3	978.4	989.7	1003.1	1009.5	1015.3	1016.1	1010.9
35°	1049.5	1051.8	1057.7	1069.3	1080.9	1090.2	1102.9	1106.1	1106.1	1101.8	1090.2
37.5°	1154.9	1156.3	1164.5	1177.5	1189.4	1199.0	1207.7	1214.1	1210.9	1201.6	1182.2
40°	1270.4	1273.0	1284.6	1296.2	1309.6	1318.6	1327.9	1329.0	1325.8	1312.2	1285.8
42.5°	1380.7	1383.0	1394.6	1412.9	1430.3	1442.8	1451.5	1453.3	1443.1	1430.6	1397.8
45°	1475.6	1481.7	1496.8	1518.3	1543.5	1561.2	1573.1	1578.1	1569.1	1552.8	1514.8
47.5°	1550.8	1556.9	1578.4	1603.9	1635.2	1664.0	1683.7	1694.2	1691.8	1679.6	1638.1
50°	1605.9	1611.7	1634.9	1666.3	1702.9	1738.6	1772.2	1797.2	1805.9	1800.4	1762.4
52.5°	1612.3	1621.9	1649.2	1691.3	1738.9	1787.6	1835.5	1877.9	1906.6	1911.0	1882.8
55°	1523.2	1532.8	1570.5	1632.9	1703.7	1783.3	1859.9	1931.3	1987.9	2016.9	2002.1
57.5°	1313.1	1330.2	1370.0	1443.1	1547.3	1666.3	1788.5	1915.3	2030.6	2107.5	2122.3
60°	1006.3	1026.6	1066.7	1144.4	1260.5	1402.5	1565.6	1753.1	1956.5	2129.5	2232.9
62.5°	645.5	664.7	706.7	774.4	869.0	1022.8	1197.8	1420.5	1693.9	1967.0	2213.1
65°	331.8	342.2	364.3	405.2	478.9	593.8	750.9	972.9	1285.5	1622.5	1978.3
67.5°	210.1	212.2	217.1	222.9	241.8	281.5	354.7	493.1	750.3	1101.8	1518.3
70°	181.7	181.7	179.4	178.5	180.8	186.3	197.7	229.9	316.7	523.0	875.7
72.5°	166.3	164.6	160.5	157.3	156.7	156.7	159.1	164.0	177.9	213.0	342.8
75°	153.2	148.3	142.8	139.0	137.6	136.1	135.8	136.7	139.6	145.1	163.7
77.5°	137.3	130.9	124.5	120.7	119.0	117.0	115.2	113.2	111.7	113.5	121.6
80°	118.1	110.9	105.9	103.6	101.9	99.0	95.2	91.7	88.5	87.9	92.9
82.5°	95.2	86.8	87.1	87.9	84.8	80.7	76.6	72.9	67.3	64.4	67.3
85°	76.9	72.6	70.5	76.0	71.4	65.3	58.9	52.2	43.5	36.6	39.8
87.5°	29.9	29.9	44.7	68.8	61.8	50.5	43.2	36.9	22.9	17.7	18.0
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°	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2
2.5°	682.4	682.9	682.7	682.4	682.4	682.1	682.4	682.4
5°	687.6	689.0	689.0	689.6	689.6	689.9	690.2	689.9
7.5°	695.4	698.0	699.8	701.8	702.1	702.4	703.0	702.4
10°	703.3	708.5	712.3	716.0	717.8	718.4	718.9	718.9
12.5°	713.1	720.4	727.1	733.7	736.9	738.7	738.7	739.8
15°	729.4	736.6	744.5	753.5	759.0	761.9	762.8	762.8
17.5°	752.3	758.7	765.4	774.1	781.0	784.8	785.7	785.4
20°	779.0	785.1	788.9	794.4	800.5	804.8	806.0	806.0
22.5°	809.5	813.0	813.6	815.3	820.2	826.0	828.6	829.2
25°	843.2	844.0	841.7	841.7	844.9	850.4	853.0	853.3
27.5°	886.7	882.3	876.5	874.5	876.5	882.9	886.1	887.3
30°	941.0	930.5	917.2	909.9	908.8	917.2	923.0	923.8
32.5°	1003.1	988.0	970.3	955.5	951.7	956.9	963.9	963.6
35°	1076.8	1058.8	1037.3	1018.5	1009.8	1015.0	1024.9	1026.0
37.5°	1161.9	1138.3	1113.7	1089.9	1076.2	1077.7	1088.1	1091.6
40°	1256.8	1226.3	1195.2	1163.3	1143.9	1140.1	1152.9	1154.9
42.5°	1358.3	1319.2	1280.0	1240.5	1215.5	1209.7	1224.5	1223.7
45°	1466.6	1416.7	1370.8	1327.3	1297.7	1289.0	1301.2	1301.2
47.5°	1583.0	1521.5	1466.9	1417.6	1385.3	1372.9	1384.5	1385.3
50°	1706.4	1641.0	1576.9	1522.0	1483.4	1467.5	1482.6	1484.9
52.5°	1829.1	1765.6	1700.8	1638.1	1591.4	1572.0	1589.4	1596.9
55°	1953.6	1891.2	1829.4	1768.2	1712.7	1689.8	1708.4	1718.0
57.5°	2085.1	2027.4	1968.4	1906.6	1853.2	1817.5	1837.3	1850.0
60°	2239.2	2189.9	2128.7	2060.4	2006.5	1970.2	1981.5	1992.8
62.5°	2361.1	2380.3	2328.3	2249.4	2180.0	2133.6	2144.6	2156.5
65°	2302.2	2498.7	2544.9	2465.1	2369.0	2296.7	2292.1	2298.2
67.5°	1924.3	2306.0	2584.3	2660.4	2580.0	2479.6	2461.0	2470.0
70°	1287.2	1762.7	2253.8	2619.5	2716.7	2677.8	2659.5	2665.0
72.5°	618.2	1026.6	1529.0	2015.2	2311.2	2447.1	2490.6	2511.8
75°	226.1	407.5	736.9	1110.5	1340.6	1551.9	1689.8	1746.1
77.5°	136.4	164.6	235.4	354.4	401.4	449.3	430.7	440.0
80°	101.0	114.1	129.2	145.1	150.3	150.3	144.5	139.9
82.5°	70.8	79.2	86.5	95.2	97.5	93.2	76.6	61.0
85°	45.6	49.3	52.5	58.0	56.6	54.0	36.3	32.2
87.5°	20.9	23.8	25.0	27.6	26.4	25.3	18.0	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)