

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: P300538

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300538
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
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 6348.9 lumens
Efficiency: N/A
Efficacy: 107.6 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

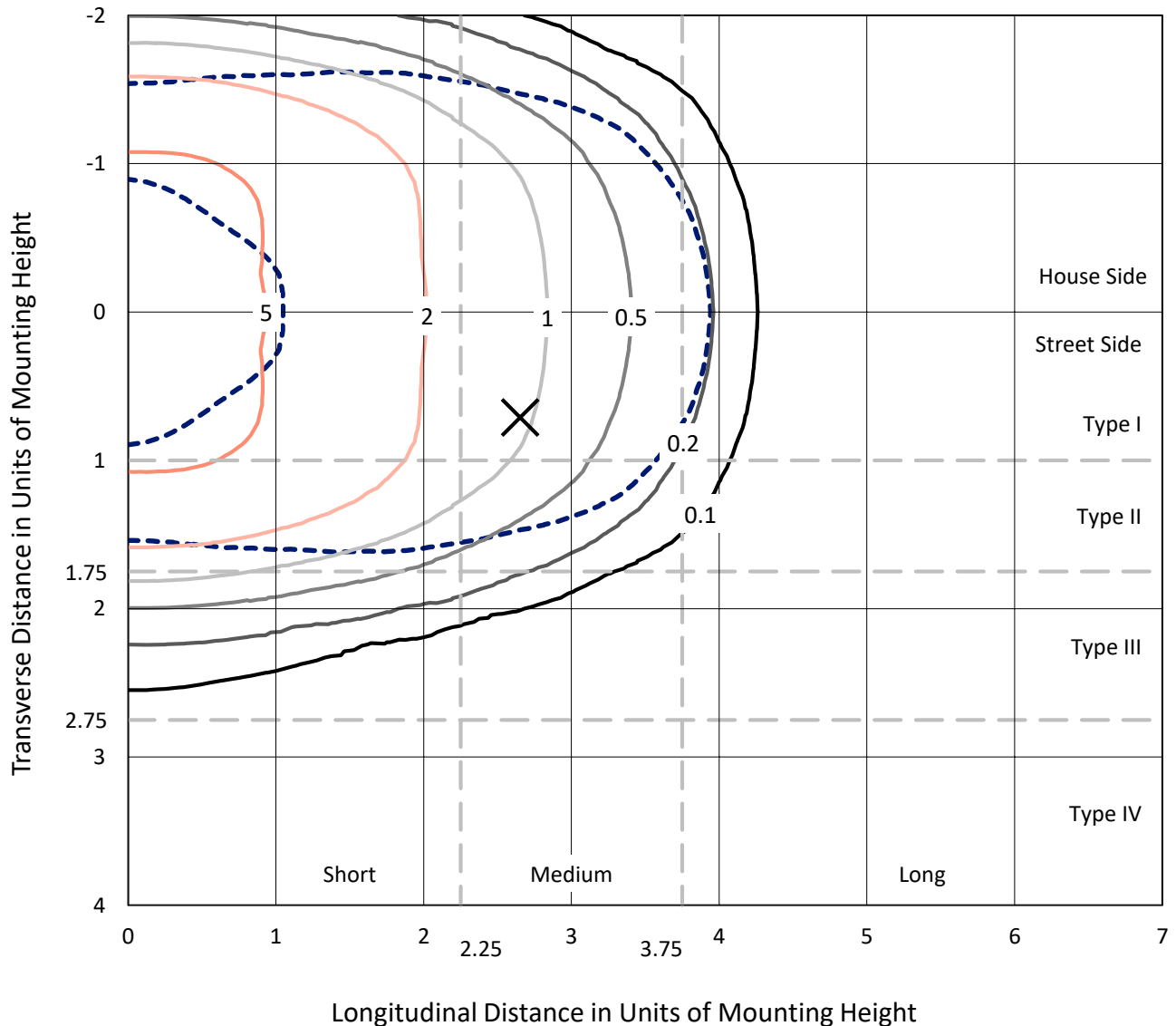


REPORT NUMBER: P300538

CATALOG NUMBER: GLNA-AF-01-LED-E1-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

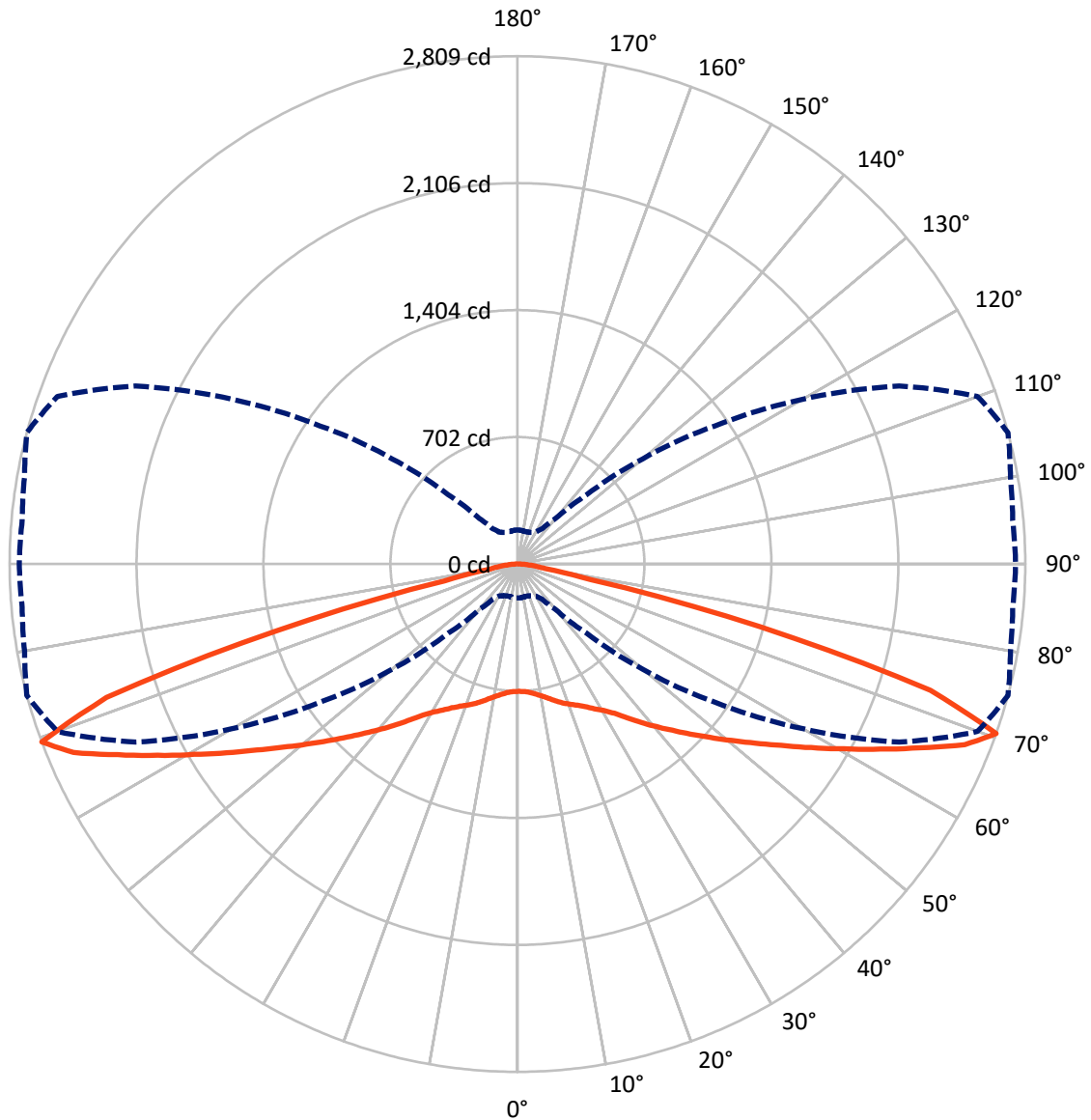


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P300538

CATALOG NUMBER: GLNA-AF-01-LED-E1-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P300538

CATALOG NUMBER: GLNA-AF-01-LED-E1-RW

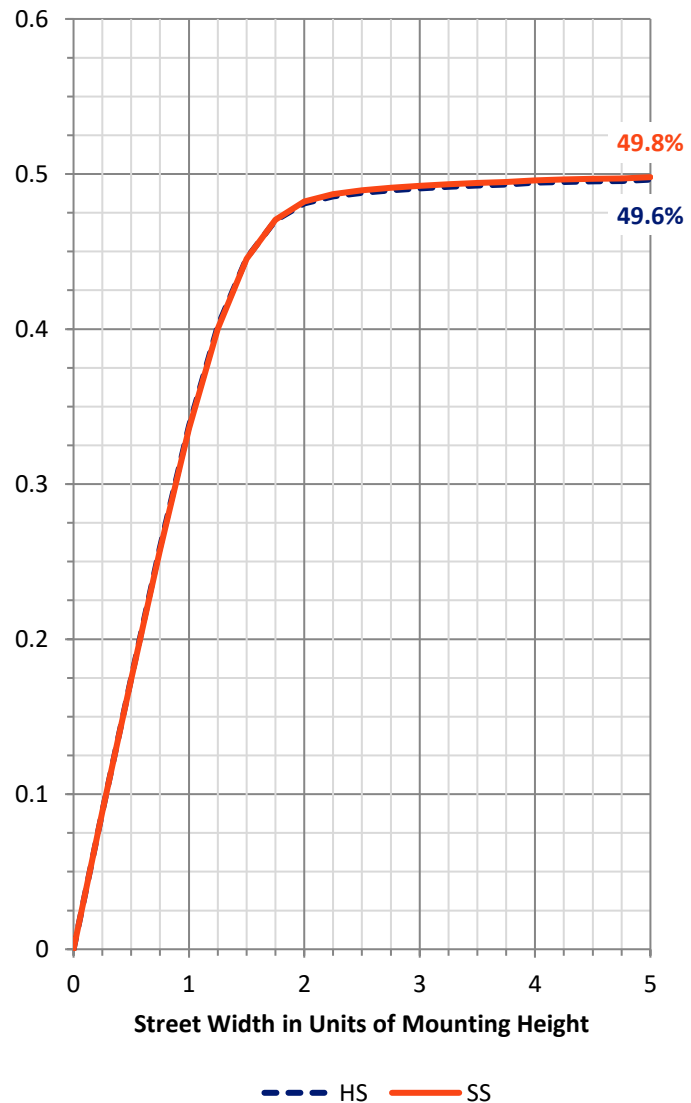
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3174.5	0.0	3174.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3174.5	0.0	3174.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6348.9	0.0	6348.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.1
10°-20°	209.9	3.3
20°-30°	395.0	6.2
30°-40°	699.5	11.0
40°-50°	1169.7	18.4
50°-60°	1630.0	25.7
60°-70°	1511.6	23.8
70°-80°	602.4	9.5
80°-90°	63.3	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°	6348.9	100.0
0°-180°	6348.9	100.0



REPORT NUMBER: P300538

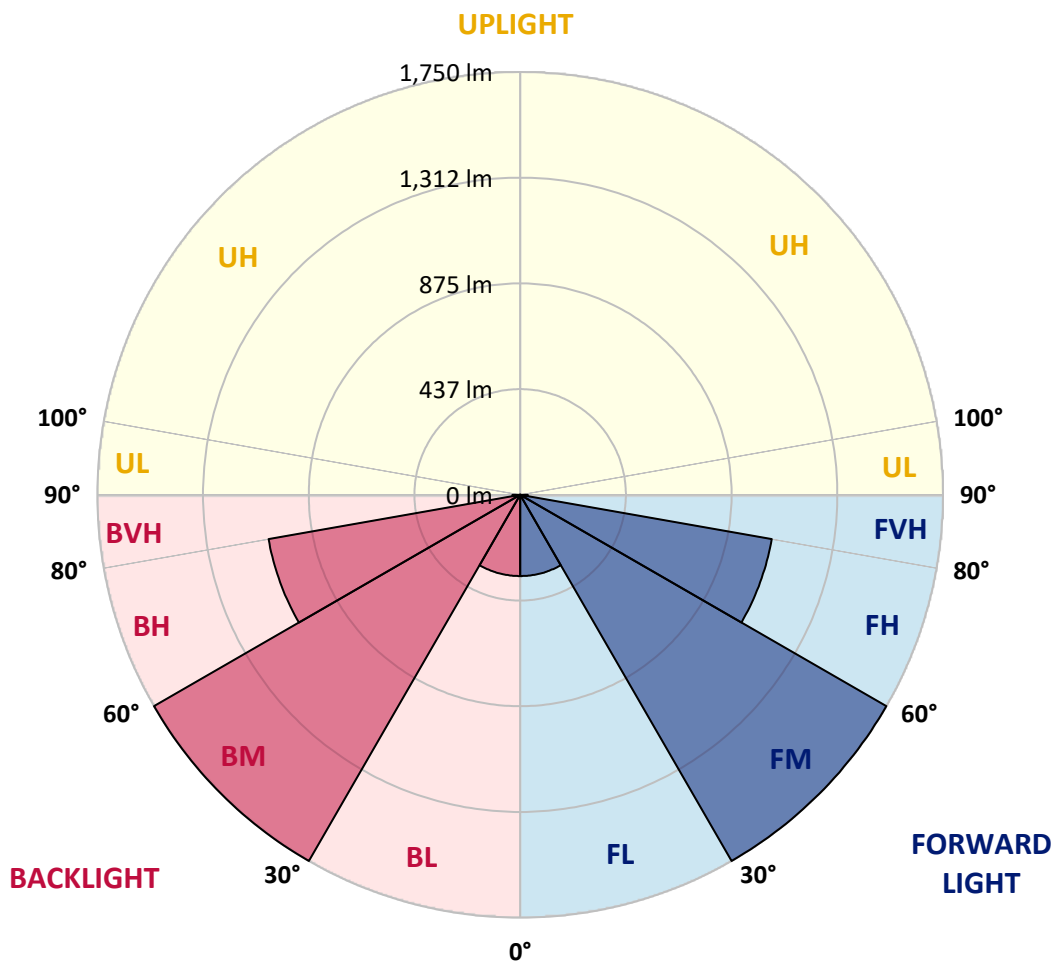
CATALOG NUMBER: GLNA-AF-01-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.2	5.3			
FM	(30°-60°)	1749.6	27.6			
FH	(60°-80°)	1057.0	16.6			G1/1800
FVH	(80°-90°)	31.7	0.5			G1/100
BL	(0°-30°)	336.2	5.3	B1/500		
BM	(30°-60°)	1749.6	27.6	B2/2500		
BH	(60°-80°)	1057.0	16.6	B3/2500		G3/2500
BVH	(80°-90°)	31.7	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





REPORT NUMBER: P300538

CATALOG NUMBER: GLNA-AF-01-LED-E1-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2
2.5°	703.0	702.4	703.0	702.7	703.3	703.3	703.9	705.1	705.1	706.0	705.7
5°	696.1	695.8	696.7	697.6	698.5	700.3	702.1	704.8	706.9	708.4	709.9
7.5°	682.6	682.6	683.8	685.9	688.0	691.9	696.1	701.5	706.9	711.4	715.4
10°	671.5	672.1	673.6	677.2	680.8	686.8	692.5	700.3	707.8	715.4	721.4
12.5°	664.9	665.8	668.5	673.9	679.9	688.0	696.7	706.6	715.1	724.1	730.1
15°	667.0	667.6	671.5	678.1	685.9	696.1	707.8	719.6	729.5	739.1	747.2
17.5°	678.7	679.6	684.1	691.6	699.7	711.8	724.4	737.6	749.9	760.7	770.6
20°	699.7	700.6	706.3	714.5	724.1	736.4	749.0	762.8	776.6	788.0	799.1
22.5°	729.5	731.0	736.4	744.5	755.3	768.5	783.5	798.2	811.4	821.9	831.8
25°	768.5	771.8	776.9	785.9	797.3	809.3	825.5	840.5	853.1	863.0	870.2
27.5°	823.7	828.2	832.1	840.8	851.9	863.3	879.5	892.7	904.7	914.3	919.7
30°	896.9	901.4	905.3	913.7	923.9	934.7	950.0	961.7	969.2	976.7	976.4
32.5°	985.7	990.5	992.0	1001.0	1011.5	1023.2	1037.0	1043.6	1049.6	1050.5	1045.1
35°	1085.0	1087.4	1093.4	1105.4	1117.4	1127.0	1140.2	1143.5	1143.5	1139.0	1127.0
37.5°	1194.0	1195.5	1203.9	1217.4	1229.7	1239.6	1248.6	1255.2	1251.9	1242.3	1222.2
40°	1313.4	1316.1	1328.1	1340.1	1353.9	1363.2	1372.8	1374.0	1370.7	1356.6	1329.3
42.5°	1427.4	1429.8	1441.8	1460.7	1478.7	1491.6	1500.6	1502.4	1491.9	1479.0	1445.1
45°	1525.5	1531.8	1547.4	1569.6	1595.7	1614.0	1626.3	1631.4	1622.1	1605.3	1566.0
47.5°	1603.2	1609.5	1631.7	1658.1	1690.6	1720.3	1740.7	1751.5	1749.1	1736.5	1693.6
50°	1660.2	1666.3	1690.3	1722.7	1760.5	1797.4	1832.2	1858.0	1867.0	1861.3	1822.0
52.5°	1666.9	1676.8	1705.0	1748.5	1797.7	1848.1	1897.6	1941.4	1971.1	1975.6	1946.5
55°	1574.7	1584.6	1623.6	1688.2	1761.4	1843.6	1922.8	1996.6	2055.1	2085.1	2069.8
57.5°	1357.5	1375.2	1416.3	1491.9	1599.6	1722.7	1849.0	1980.1	2099.2	2178.8	2194.1
60°	1040.3	1061.3	1102.7	1183.1	1303.2	1449.9	1618.5	1812.4	2022.7	2201.6	2308.4
62.5°	667.3	687.1	730.7	800.6	898.4	1057.4	1238.4	1468.5	1751.2	2033.5	2288.0
65°	343.0	353.8	376.6	418.9	495.1	613.9	776.3	1005.8	1329.0	1677.4	2045.2
67.5°	217.2	219.3	224.4	230.4	250.0	291.1	366.7	509.8	775.7	1139.0	1569.6
70°	187.8	187.8	185.4	184.5	186.9	192.6	204.3	237.7	327.4	540.7	905.3
72.5°	171.9	170.1	165.9	162.6	162.0	162.0	164.4	169.5	183.9	220.2	354.4
75°	158.4	153.3	147.6	143.7	142.2	140.7	140.4	141.3	144.3	150.0	169.2
77.5°	141.9	135.3	128.7	124.8	123.0	120.9	119.1	117.0	115.5	117.3	125.7
80°	122.1	114.6	109.5	107.1	105.3	102.3	98.4	94.8	91.5	90.9	96.0
82.5°	98.4	89.7	90.0	90.9	87.6	83.4	79.2	75.3	69.6	66.6	69.6
85°	79.5	75.0	72.9	78.6	73.8	67.5	60.9	54.0	45.0	37.8	41.1
87.5°	30.9	30.9	46.2	71.1	63.9	52.2	44.7	38.1	23.7	18.3	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P300538

CATALOG NUMBER: GLNA-AF-01-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2
2.5°	705.4	706.0	705.7	705.4	705.4	705.1	705.4	705.4
5°	710.8	712.4	712.4	713.0	713.0	713.3	713.6	713.3
7.5°	719.0	721.7	723.5	725.6	725.9	726.2	726.8	726.2
10°	727.1	732.5	736.4	740.3	742.1	742.7	743.3	743.3
12.5°	737.3	744.8	751.7	758.6	761.9	763.7	763.7	764.9
15°	754.1	761.6	769.7	779.0	784.7	787.7	788.6	788.6
17.5°	777.8	784.4	791.3	800.3	807.5	811.4	812.3	812.0
20°	805.4	811.7	815.6	821.3	827.6	832.1	833.3	833.3
22.5°	836.9	840.5	841.1	842.9	848.0	854.0	856.7	857.3
25°	871.7	872.6	870.2	870.2	873.5	879.2	881.9	882.2
27.5°	916.7	912.2	906.2	904.1	906.2	912.8	916.1	917.3
30°	972.8	962.0	948.2	940.7	939.5	948.2	954.2	955.1
32.5°	1037.0	1021.4	1003.1	987.8	983.9	989.3	996.5	996.2
35°	1113.2	1094.6	1072.4	1052.9	1043.9	1049.3	1059.5	1060.7
37.5°	1201.2	1176.8	1151.3	1126.7	1112.6	1114.1	1124.9	1128.5
40°	1299.3	1267.8	1235.7	1202.7	1182.5	1178.6	1191.9	1194.0
42.5°	1404.3	1363.8	1323.3	1282.5	1256.7	1250.7	1266.0	1265.1
45°	1516.2	1464.6	1417.2	1372.2	1341.6	1332.6	1345.2	1345.2
47.5°	1636.5	1572.9	1516.5	1465.5	1432.2	1419.3	1431.3	1432.2
50°	1764.1	1696.6	1630.2	1573.5	1533.6	1517.1	1532.7	1535.1
52.5°	1891.0	1825.3	1758.4	1693.6	1645.2	1625.1	1643.1	1650.9
55°	2019.7	1955.2	1891.3	1828.0	1770.7	1747.0	1766.2	1776.1
57.5°	2155.7	2095.9	2035.0	1971.1	1915.9	1879.0	1899.4	1912.6
60°	2315.0	2264.0	2200.7	2130.1	2074.3	2036.8	2048.5	2060.2
62.5°	2441.0	2460.8	2407.1	2325.5	2253.8	2205.8	2217.2	2229.5
65°	2380.1	2583.2	2631.0	2548.4	2449.1	2374.4	2369.6	2375.9
67.5°	1989.4	2384.0	2671.8	2750.4	2667.3	2563.4	2544.2	2553.5
70°	1330.8	1822.3	2330.0	2708.1	2808.6	2768.4	2749.5	2755.2
72.5°	639.1	1061.3	1580.7	2083.3	2389.4	2529.8	2574.8	2596.7
75°	233.7	421.3	761.9	1148.0	1386.0	1604.4	1747.0	1805.2
77.5°	141.0	170.1	243.4	366.4	415.0	464.5	445.3	454.9
80°	104.4	117.9	133.5	150.0	155.4	155.4	149.4	144.6
82.5°	73.2	81.9	89.4	98.4	100.8	96.3	79.2	63.0
85°	47.1	51.0	54.3	60.0	58.5	55.8	37.5	33.3
87.5°	21.6	24.6	25.8	28.5	27.3	26.1	18.6	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)