

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: P270022

Luminaire Tested: **GPC-AF-02-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270022
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: GPC-AF-02-LED-E1-RW-7027-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7268.9 lumens
Efficiency: N/A
Efficacy: 110.1 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): 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

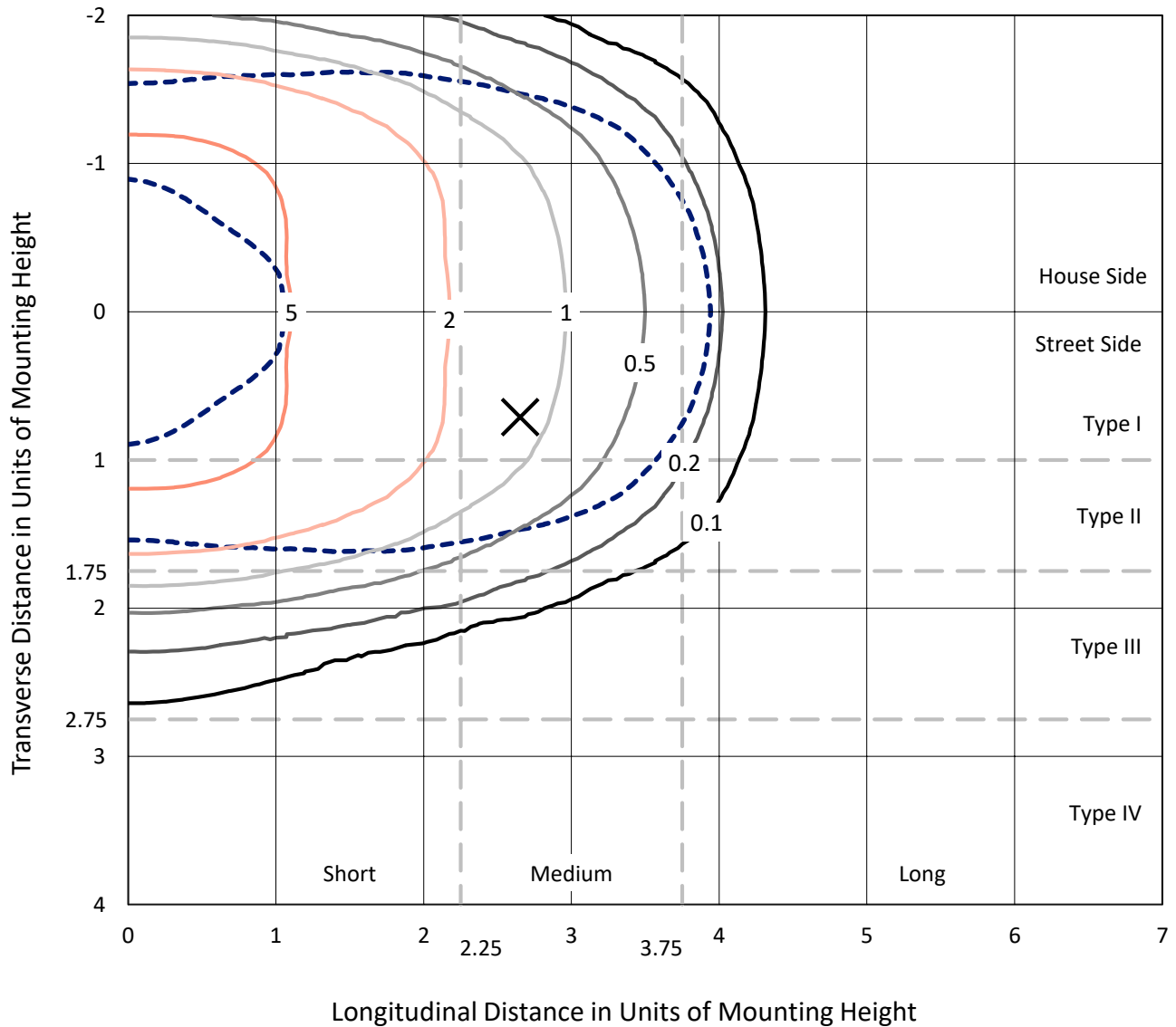


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Iso-Footcandle Lines of Horizontal Illumination

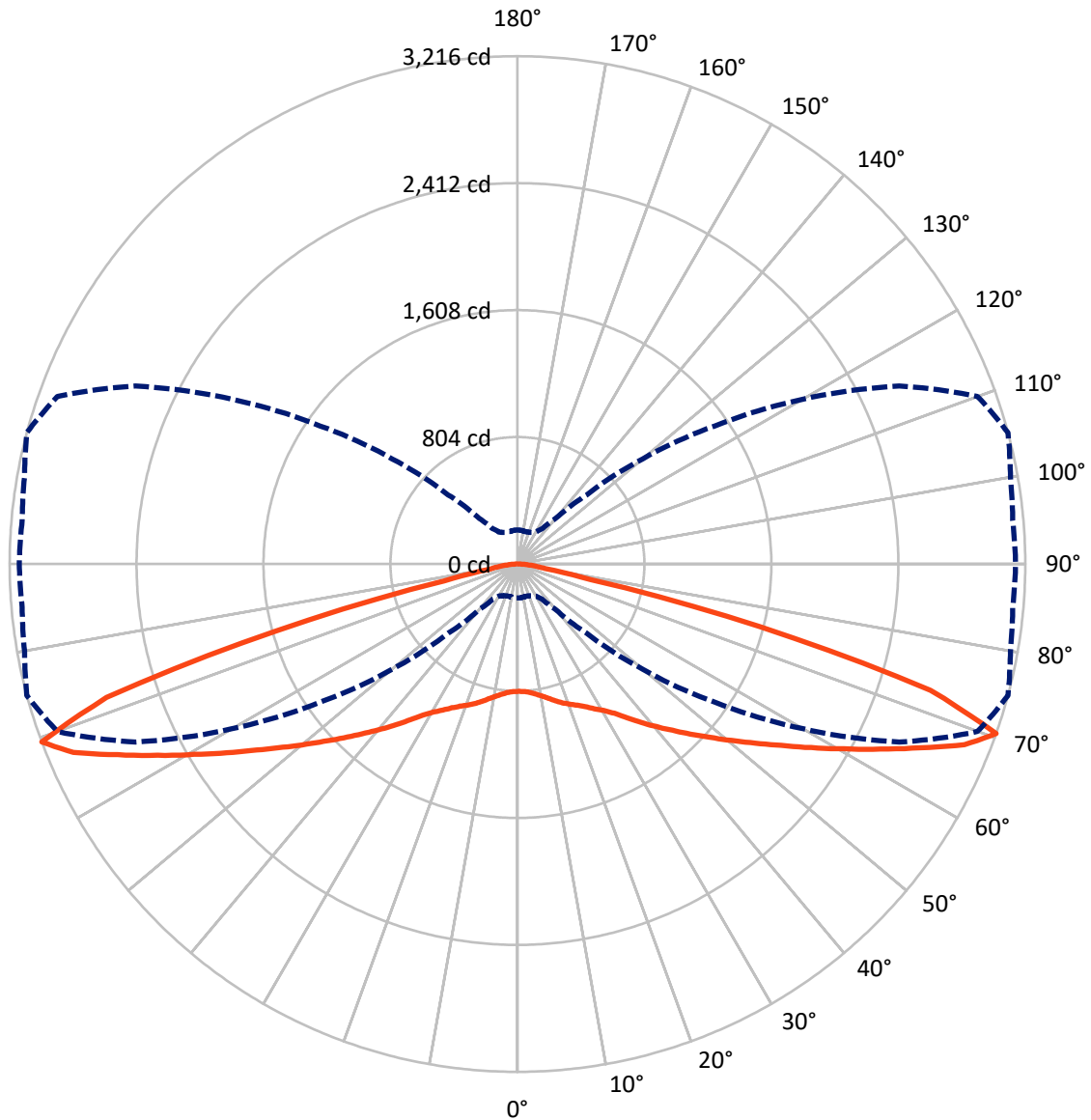
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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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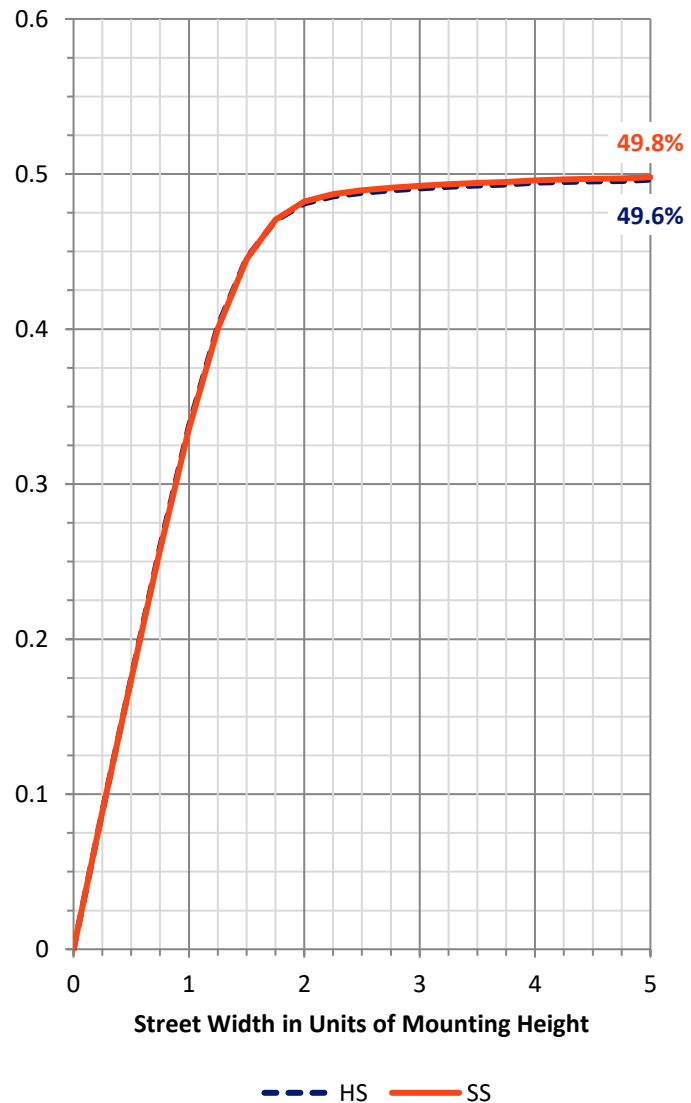
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3634.4	0.0	3634.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3634.4	0.0	3634.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7268.9	0.0	7268.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	1.1
10°-20°	240.3	3.3
20°-30°	452.2	6.2
30°-40°	800.8	11.0
40°-50°	1339.2	18.4
50°-60°	1866.2	25.7
60°-70°	1730.6	23.8
70°-80°	689.7	9.5
80°-90°	72.5	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°	7268.9	100.0
0°-180°	7268.9	100.0



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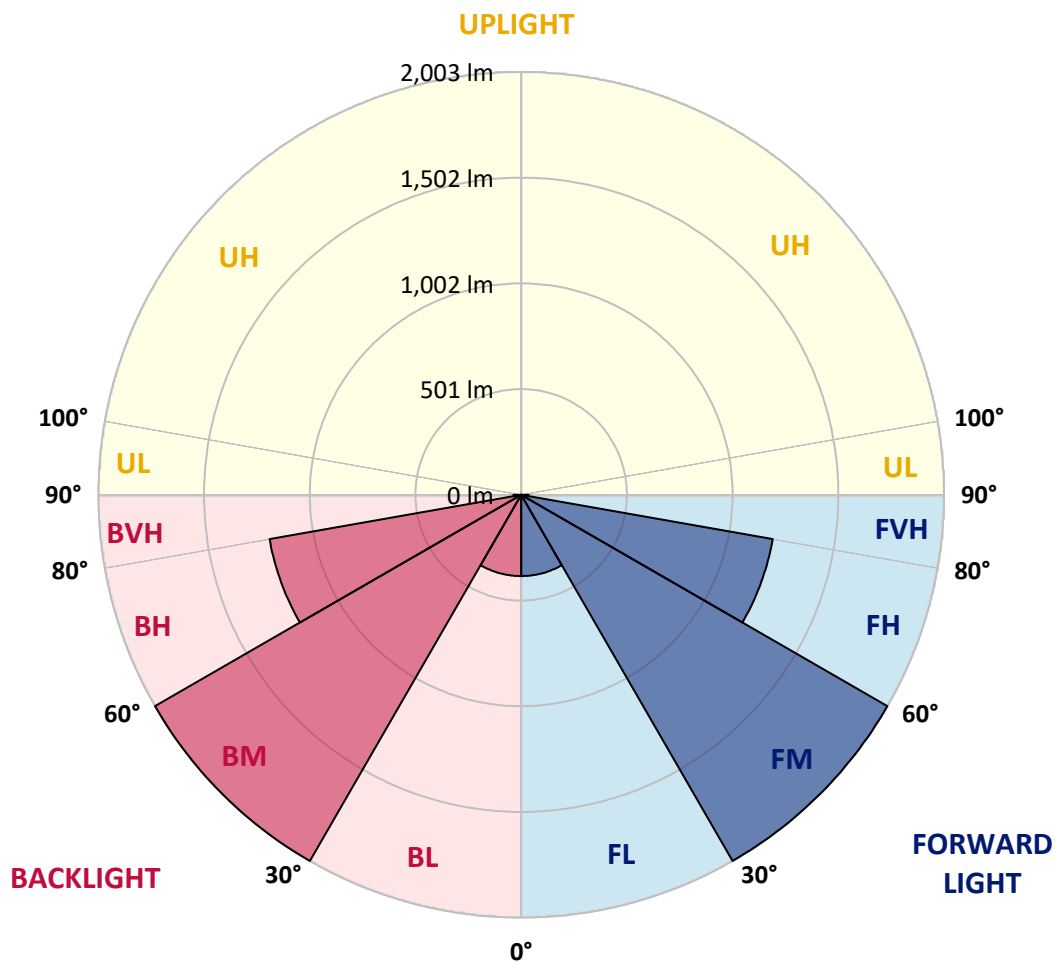
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.9	5.3			
FM	(30°-60°)	2003.1	27.6			
FH	(60°-80°)	1210.2	16.6			G1/1800
FVH	(80°-90°)	36.3	0.5			G1/100
BL	(0°-30°)	384.9	5.3	B1/500		
BM	(30°-60°)	2003.1	27.6	B2/2500		
BH	(60°-80°)	1210.2	16.6	B3/2500		G3/2500
BVH	(80°-90°)	36.3	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°	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3
2.5°	804.9	804.3	804.9	804.5	805.2	805.2	805.9	807.2	807.2	808.4	807.9
5°	796.9	796.6	797.7	798.8	799.8	801.7	803.9	806.9	809.4	811.1	812.7
7.5°	781.5	781.5	783.0	785.3	787.8	792.1	796.9	803.2	809.4	814.6	819.0
10°	768.8	769.5	771.3	775.3	779.5	786.3	792.8	801.7	810.5	819.0	825.8
12.5°	761.3	762.3	765.4	771.6	778.4	787.8	797.7	809.1	818.6	829.0	835.9
15°	763.6	764.4	768.8	776.3	785.3	796.9	810.5	823.7	835.2	846.2	855.5
17.5°	777.0	778.1	783.2	791.9	801.1	814.9	829.2	844.4	858.5	870.8	882.2
20°	801.1	802.1	808.7	817.9	829.0	843.1	857.5	873.3	889.1	902.2	914.8
22.5°	835.2	836.9	843.1	852.3	864.7	879.8	897.0	913.8	928.9	941.0	952.4
25°	879.8	883.7	889.4	899.7	912.8	926.5	945.0	962.3	976.6	988.0	996.3
27.5°	943.0	948.3	952.7	962.7	975.3	988.3	1006.9	1022.0	1035.7	1046.7	1053.0
30°	1026.9	1032.1	1036.5	1046.0	1057.8	1070.2	1087.7	1101.1	1109.6	1118.2	1117.9
32.5°	1128.5	1134.0	1135.7	1146.1	1158.0	1171.5	1187.3	1194.8	1201.8	1202.7	1196.5
35°	1242.3	1245.1	1251.9	1265.6	1279.4	1290.3	1305.4	1309.2	1309.2	1304.1	1290.3
37.5°	1367.0	1368.7	1378.3	1393.7	1407.9	1419.1	1429.5	1437.0	1433.2	1422.2	1399.2
40°	1503.7	1506.7	1520.6	1534.2	1550.0	1560.6	1571.7	1573.0	1569.2	1553.1	1521.9
42.5°	1634.1	1636.9	1650.6	1672.4	1692.9	1707.8	1718.1	1720.2	1708.0	1693.3	1654.5
45°	1746.6	1753.9	1771.6	1797.1	1827.0	1848.0	1861.9	1867.8	1857.2	1837.9	1792.9
47.5°	1835.5	1842.8	1868.1	1898.4	1935.5	1969.5	1992.9	2005.2	2002.5	1988.0	1938.9
50°	1900.9	1907.7	1935.2	1972.3	2015.5	2057.7	2097.6	2127.1	2137.4	2131.0	2086.0
52.5°	1908.4	1919.7	1951.9	2001.9	2058.1	2115.9	2172.6	2222.6	2256.7	2261.8	2228.5
55°	1802.9	1814.2	1859.0	1932.8	2016.5	2110.7	2201.3	2285.8	2352.9	2387.2	2369.6
57.5°	1554.2	1574.4	1621.5	1708.0	1831.5	1972.3	2116.9	2267.1	2403.3	2494.5	2511.9
60°	1191.1	1215.0	1262.5	1354.6	1491.9	1660.0	1853.1	2074.9	2315.8	2520.6	2642.9
62.5°	764.0	786.6	836.5	916.6	1028.6	1210.6	1417.7	1681.3	2004.8	2328.1	2619.5
65°	392.6	405.0	431.1	479.5	566.8	702.8	888.8	1151.5	1521.5	1920.3	2341.5
67.5°	248.7	251.2	256.9	263.8	286.2	333.2	419.8	583.7	888.1	1304.1	1797.1
70°	215.1	215.1	212.3	211.3	214.1	220.5	234.0	272.0	374.9	619.0	1036.5
72.5°	196.9	194.8	190.0	186.2	185.5	185.5	188.3	194.2	210.7	252.2	405.8
75°	181.4	175.6	169.1	164.6	162.9	161.2	160.7	161.9	165.3	171.8	193.8
77.5°	162.6	155.0	147.4	142.9	140.9	138.5	136.5	133.9	132.3	134.3	144.0
80°	139.9	131.2	125.5	122.7	120.6	117.1	112.6	108.5	104.8	104.2	110.0
82.5°	112.6	102.8	103.0	104.2	100.3	95.5	90.6	86.2	79.7	76.3	79.7
85°	91.1	85.9	83.5	90.0	84.5	77.3	69.8	61.9	51.6	43.3	47.2
87.5°	35.5	35.5	52.9	81.4	73.2	59.7	51.3	43.7	27.2	21.0	21.3
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°	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3
2.5°	807.7	808.4	807.9	807.7	807.7	807.2	807.7	807.7
5°	813.9	815.5	815.5	816.2	816.2	816.6	816.9	816.6
7.5°	823.0	826.3	828.2	830.7	831.0	831.3	832.0	831.3
10°	832.4	838.6	843.1	847.6	849.5	850.2	851.0	851.0
12.5°	844.0	852.8	860.5	868.5	872.3	874.3	874.3	875.7
15°	863.4	872.0	881.1	891.8	898.3	901.8	902.8	902.8
17.5°	890.5	898.0	905.9	916.2	924.4	928.9	929.9	929.7
20°	922.1	929.2	933.8	940.3	947.5	952.7	954.0	954.0
22.5°	958.1	962.3	963.0	965.0	970.9	977.7	980.8	981.5
25°	997.9	999.0	996.3	996.3	1000.1	1006.6	1009.7	1010.1
27.5°	1049.5	1044.4	1037.5	1035.0	1037.5	1045.1	1048.9	1050.2
30°	1113.8	1101.4	1085.6	1077.0	1075.6	1085.6	1092.5	1093.4
32.5°	1187.3	1169.5	1148.5	1131.0	1126.5	1132.7	1140.8	1140.6
35°	1274.5	1253.2	1227.9	1205.4	1195.1	1201.4	1213.0	1214.4
37.5°	1375.1	1347.4	1318.2	1290.0	1273.8	1275.6	1287.9	1292.0
40°	1487.6	1451.4	1414.7	1376.9	1353.8	1349.4	1364.5	1367.0
42.5°	1607.7	1561.3	1515.0	1468.3	1438.7	1431.9	1449.3	1448.3
45°	1736.0	1676.7	1622.5	1571.0	1535.9	1525.6	1540.1	1540.1
47.5°	1873.7	1800.8	1736.2	1677.9	1639.6	1624.9	1638.7	1639.6
50°	2019.7	1942.3	1866.5	1801.6	1755.8	1737.0	1754.7	1757.5
52.5°	2164.9	2089.7	2013.1	1938.9	1883.7	1860.6	1881.2	1890.2
55°	2312.3	2238.4	2165.4	2092.8	2027.3	2000.0	2022.1	2033.5
57.5°	2468.0	2399.6	2329.8	2256.7	2193.5	2151.3	2174.5	2189.7
60°	2650.4	2592.0	2519.4	2438.8	2374.8	2331.9	2345.4	2358.7
62.5°	2794.6	2817.4	2755.9	2662.4	2580.3	2525.3	2538.4	2552.5
65°	2725.0	2957.5	3012.1	2917.7	2804.0	2718.5	2712.9	2720.2
67.5°	2277.7	2729.4	3058.9	3148.9	3053.7	2934.9	2912.8	2923.5
70°	1523.5	2086.4	2667.5	3100.4	3215.6	3169.5	3147.8	3154.4
72.5°	731.7	1215.0	1809.7	2385.2	2735.6	2896.3	2947.9	2973.0
75°	267.6	482.3	872.3	1314.4	1586.8	1836.9	2000.0	2066.7
77.5°	161.4	194.8	278.7	419.5	475.2	531.7	509.8	520.7
80°	119.6	135.0	152.9	171.8	178.0	178.0	171.0	165.6
82.5°	83.8	93.9	102.3	112.6	115.4	110.3	90.6	72.1
85°	54.0	58.4	62.3	68.7	67.1	63.9	42.9	38.2
87.5°	24.8	28.1	29.6	32.7	31.4	30.0	21.3	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)