

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: P200071

Luminaire Tested: **GPC-AF-01-LED-E1-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-5NQ
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6708.5 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

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

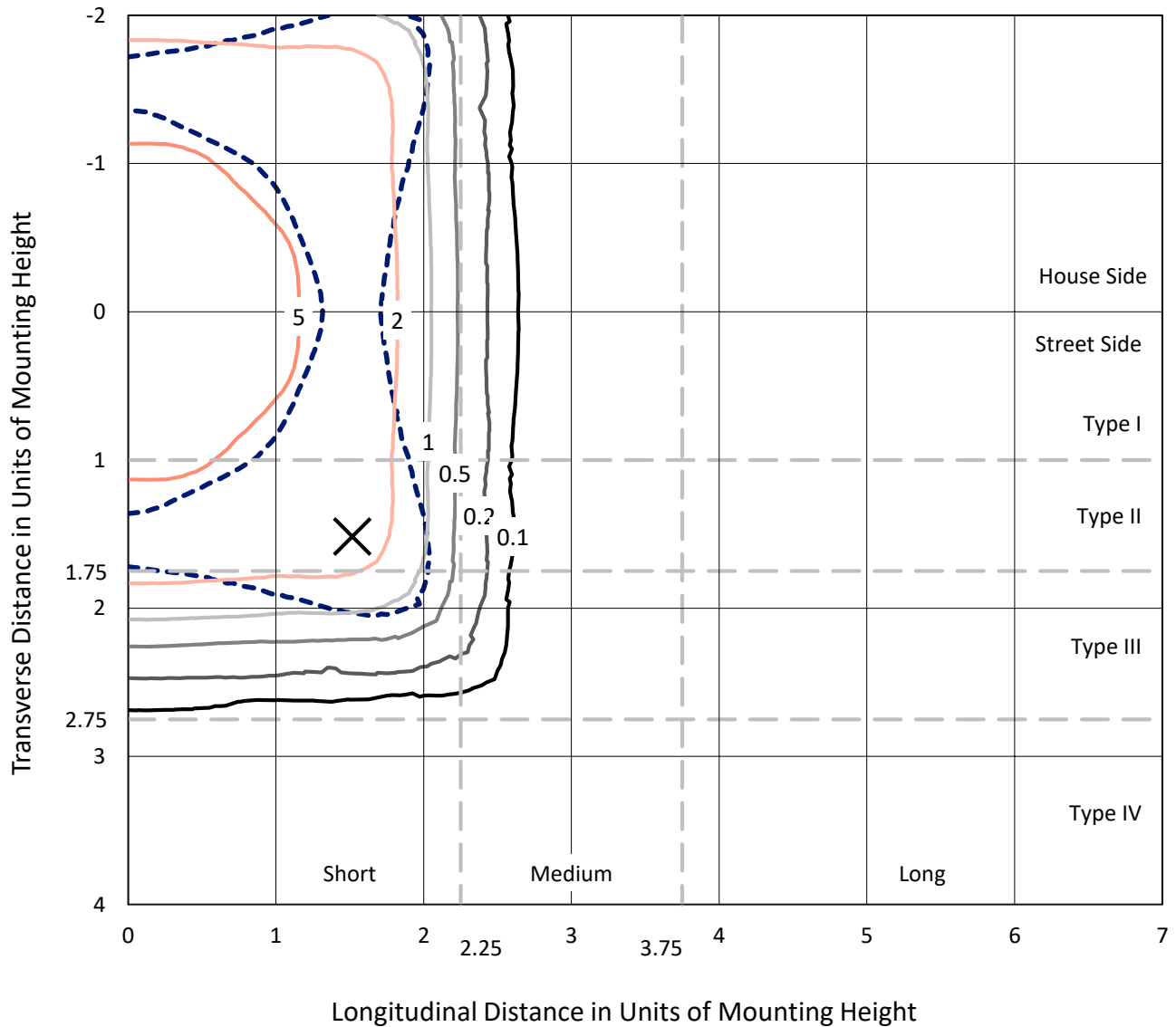


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Iso-Footcandle Lines of Horizontal Illumination

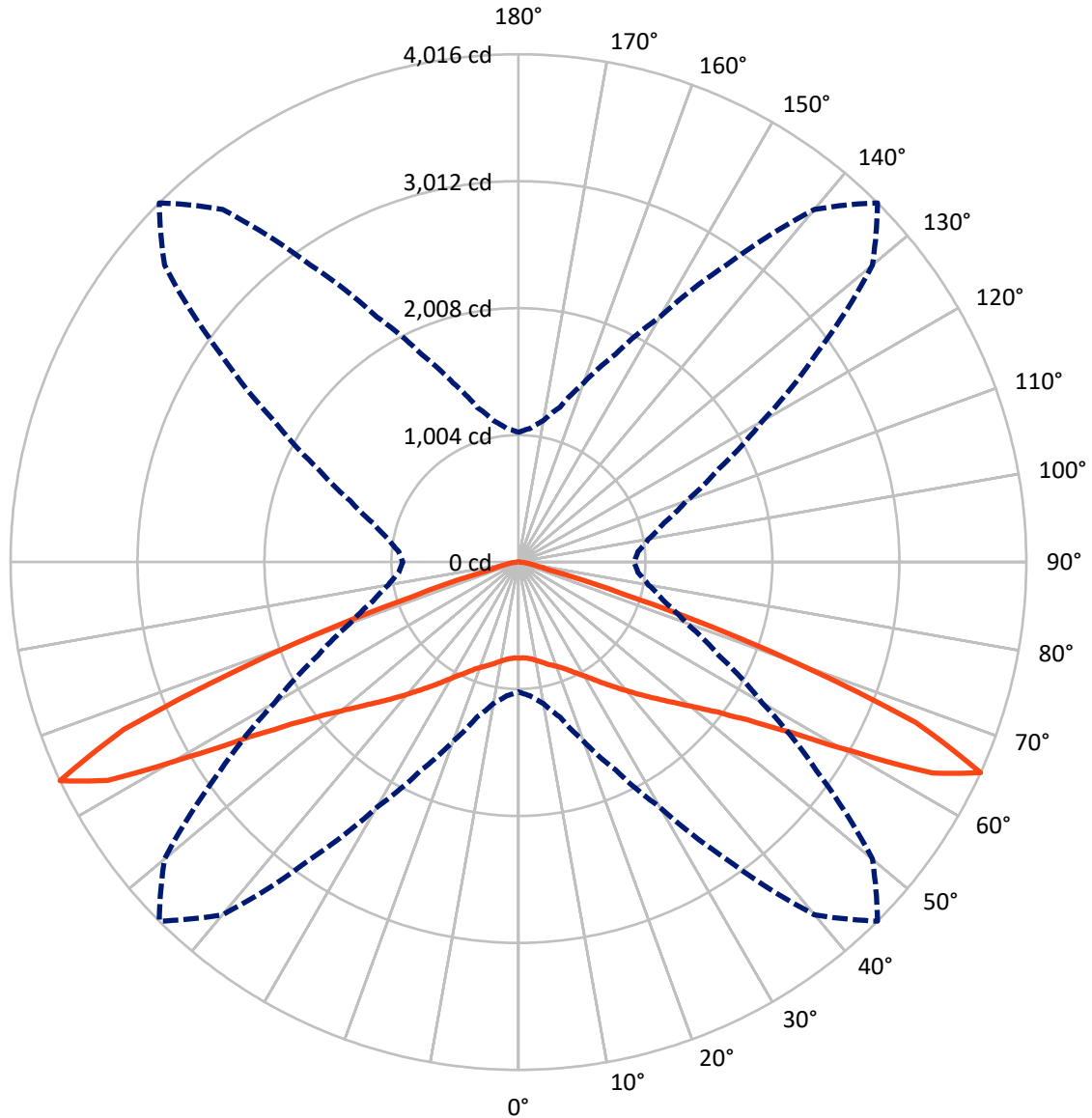
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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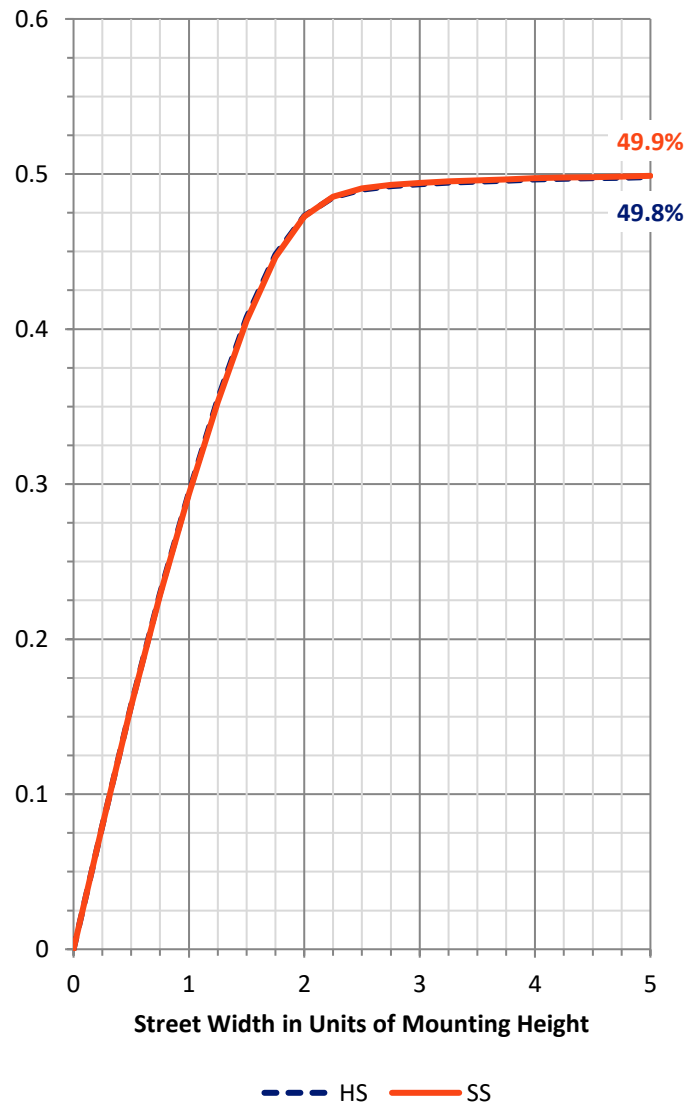
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3354.3	0.0	3354.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3354.3	0.0	3354.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6708.5	0.0	6708.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	1.1
10°-20°	237.3	3.5
20°-30°	443.7	6.6
30°-40°	750.4	11.2
40°-50°	1226.9	18.3
50°-60°	1951.0	29.1
60°-70°	1763.6	26.3
70°-80°	223.2	3.3
80°-90°	38.4	0.6
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°	6708.5	100.0
0°-180°	6708.5	100.0

Coefficient of Utilization



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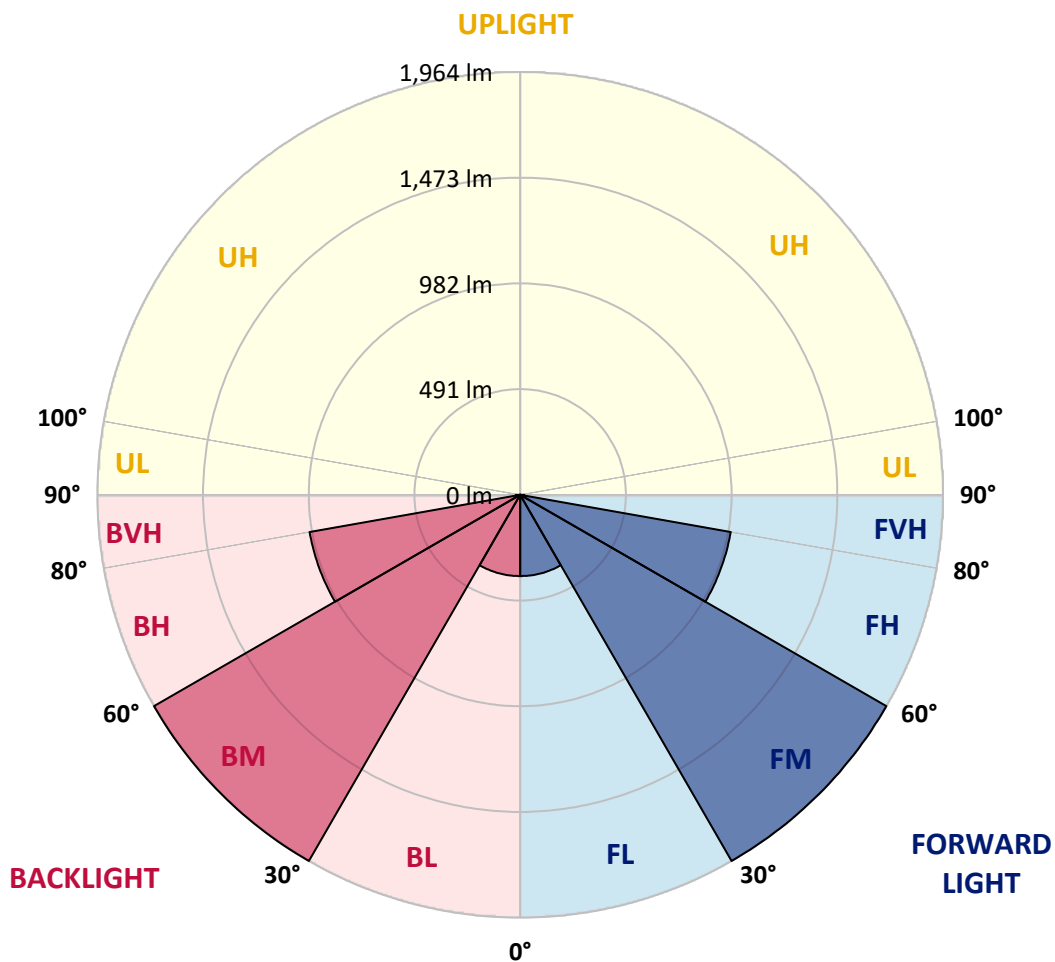
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.5	5.6			
FM	(30°-60°)	1964.2	29.3			
FH	(60°-80°)	993.4	14.8			G1/1800
FVH	(80°-90°)	19.2	0.3			G1/100
BL	(0°-30°)	377.5	5.6	B1/500		
BM	(30°-60°)	1964.2	29.3	B2/2500		
BH	(60°-80°)	993.4	14.8	B2/1000		G1/1800
BVH	(80°-90°)	19.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0
2.5°	759.7	760.4	761.0	760.4	761.0	760.1	759.3	760.4	759.3	758.4	759.0
5°	766.3	766.6	766.6	765.7	766.6	766.0	765.1	766.3	765.4	764.5	765.1
7.5°	777.3	778.6	777.6	776.6	777.3	776.6	776.0	776.3	776.0	775.1	775.4
10°	792.1	793.0	792.4	792.1	792.7	792.4	791.8	791.5	791.8	790.8	790.8
12.5°	810.0	809.7	809.4	809.7	810.6	810.6	810.3	810.6	811.2	811.5	810.9
15°	827.6	828.2	828.2	828.2	830.1	831.7	832.6	833.2	834.5	834.8	833.5
17.5°	849.6	849.6	849.3	849.6	851.4	854.0	854.9	856.1	857.4	858.4	856.8
20°	874.1	874.7	874.7	875.3	877.8	880.7	880.7	881.3	880.7	881.3	880.4
22.5°	903.9	905.8	905.8	906.1	908.6	912.1	911.1	912.1	910.5	911.8	910.5
25°	942.9	945.7	945.1	945.1	946.9	949.2	949.5	951.3	951.0	952.6	951.7
27.5°	986.8	991.2	992.5	992.2	993.5	995.6	996.3	998.5	997.3	998.5	997.9
30°	1039.6	1041.6	1044.0	1044.9	1046.6	1048.7	1048.7	1049.0	1047.5	1049.3	1050.4
32.5°	1094.4	1097.7	1100.3	1105.9	1108.8	1110.3	1110.0	1110.6	1109.1	1111.5	1113.5
35°	1166.6	1169.1	1173.1	1177.5	1181.3	1181.0	1180.1	1180.4	1180.4	1182.6	1184.5
37.5°	1253.6	1254.2	1259.6	1265.9	1267.7	1265.9	1260.2	1258.9	1256.1	1258.9	1262.1
40°	1345.7	1347.8	1358.6	1362.6	1363.6	1360.1	1351.9	1347.2	1341.0	1344.4	1348.8
42.5°	1442.2	1446.6	1456.3	1463.4	1466.6	1464.5	1453.1	1445.8	1437.8	1439.6	1444.0
45°	1549.0	1554.3	1568.1	1575.0	1581.0	1577.5	1566.5	1555.5	1542.6	1543.6	1550.5
47.5°	1668.3	1673.6	1691.6	1703.2	1706.4	1705.7	1693.5	1678.4	1660.8	1660.1	1666.1
50°	1802.1	1807.6	1829.9	1847.8	1856.9	1855.9	1841.4	1820.0	1798.8	1799.1	1806.5
52.5°	1932.9	1939.5	1962.7	1993.5	2011.4	2024.3	2015.5	1995.4	1969.3	1969.9	1976.9
55°	2055.4	2066.4	2093.1	2134.9	2168.1	2204.4	2214.7	2214.1	2198.3	2202.7	2209.7
57.5°	2114.7	2131.1	2172.2	2238.2	2306.1	2379.7	2441.9	2488.3	2508.2	2537.9	2531.1
60°	2002.3	2028.4	2089.0	2186.1	2320.3	2473.6	2637.9	2798.5	2935.5	3038.8	2979.4
62.5°	1639.4	1673.3	1746.9	1871.3	2074.2	2319.6	2634.1	3013.7	3427.1	3676.6	3498.5
65°	1025.8	1061.0	1135.8	1269.0	1506.5	1811.5	2238.2	2867.2	3639.9	4015.9	3653.4
67.5°	400.0	419.1	459.6	544.8	723.2	994.7	1422.9	2136.7	3060.8	3390.4	3003.9
70°	200.5	202.3	209.9	225.6	263.9	342.8	521.5	990.6	1755.4	2120.2	1692.2
72.5°	144.8	145.2	148.9	155.8	168.1	185.7	219.6	303.2	570.9	872.5	535.1
75°	110.9	112.1	114.4	118.2	124.7	133.5	145.8	174.7	216.5	251.0	211.1
77.5°	85.4	88.0	89.5	93.0	97.1	103.0	106.5	117.5	136.7	143.9	141.7
80°	65.1	67.2	70.7	73.6	76.3	79.2	77.9	83.0	93.0	98.9	95.9
82.5°	41.4	44.0	54.0	56.6	57.8	59.7	57.5	57.8	62.2	66.0	62.2
85°	26.7	28.2	34.3	37.3	37.7	39.0	38.1	35.8	35.8	32.6	36.7
87.5°	12.3	12.6	15.3	18.2	18.8	17.0	16.7	16.1	12.9	12.3	13.2
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°	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0
2.5°	758.7	759.3	759.7	760.7	761.0	761.0	761.3	761.9
5°	764.8	765.7	766.0	767.2	767.5	767.2	767.8	768.1
7.5°	775.4	776.9	777.6	778.9	778.0	779.2	779.5	779.5
10°	791.2	792.7	793.0	794.2	793.6	794.2	794.2	793.6
12.5°	811.8	812.1	811.2	812.1	810.9	811.5	810.6	810.0
15°	834.8	833.8	831.7	831.7	829.7	830.1	829.7	829.4
17.5°	857.1	855.2	853.7	853.0	851.4	851.1	850.2	850.2
20°	881.6	880.7	879.7	878.5	876.9	875.3	875.0	875.6
22.5°	911.1	910.8	910.8	910.2	908.0	906.4	905.5	905.5
25°	950.7	947.9	947.9	947.6	946.6	945.7	943.8	944.8
27.5°	995.3	993.8	995.0	994.7	993.8	993.8	992.5	992.5
30°	1050.4	1049.6	1051.6	1050.0	1046.9	1046.6	1045.3	1043.7
32.5°	1113.8	1113.2	1115.9	1114.1	1109.1	1106.2	1103.8	1102.4
35°	1184.5	1184.8	1188.3	1187.0	1181.3	1179.5	1175.1	1174.4
37.5°	1261.8	1266.8	1272.8	1274.0	1269.3	1268.0	1263.3	1260.8
40°	1352.5	1359.2	1368.3	1370.4	1365.4	1364.5	1357.9	1354.5
42.5°	1449.3	1460.7	1471.9	1473.9	1468.9	1463.7	1457.5	1454.9
45°	1557.4	1570.9	1585.7	1589.5	1581.9	1576.0	1567.8	1567.8
47.5°	1678.7	1695.6	1712.3	1722.6	1715.8	1709.5	1699.7	1693.5
50°	1822.0	1845.2	1866.9	1877.5	1866.6	1854.6	1837.6	1832.0
52.5°	2001.7	2026.8	2045.7	2040.0	2023.1	2006.4	1987.9	1980.3
55°	2231.1	2239.5	2239.5	2218.2	2184.2	2156.3	2127.0	2117.3
57.5°	2517.9	2485.2	2434.9	2371.2	2291.0	2221.3	2174.2	2151.9
60°	2855.0	2697.9	2520.3	2346.0	2202.7	2084.6	2014.6	1982.5
62.5°	3079.6	2668.7	2313.0	2033.1	1827.0	1684.7	1587.9	1550.2
65°	2878.3	2225.7	1749.3	1414.4	1189.8	1044.9	949.2	914.0
67.5°	2108.2	1394.7	931.6	667.7	489.2	390.3	351.0	334.6
70°	946.3	491.1	301.0	235.0	202.6	186.0	178.8	176.3
72.5°	285.3	206.4	174.1	157.1	144.2	136.1	130.1	129.4
75°	172.2	143.3	127.3	117.2	109.0	102.4	99.3	98.3
77.5°	120.3	105.3	97.7	90.5	84.2	79.2	76.3	74.2
80°	84.5	77.3	73.9	69.8	65.7	61.0	56.9	54.9
82.5°	56.6	54.9	54.9	52.5	49.0	44.6	36.4	34.6
85°	36.4	36.1	36.7	35.8	33.3	28.5	23.5	22.3
87.5°	17.0	17.3	19.1	18.8	18.2	15.0	12.0	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)