

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: P199922

Luminaire Tested: **GWC-AF-02-LED-E1-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-5WQ-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13882.5 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 129
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

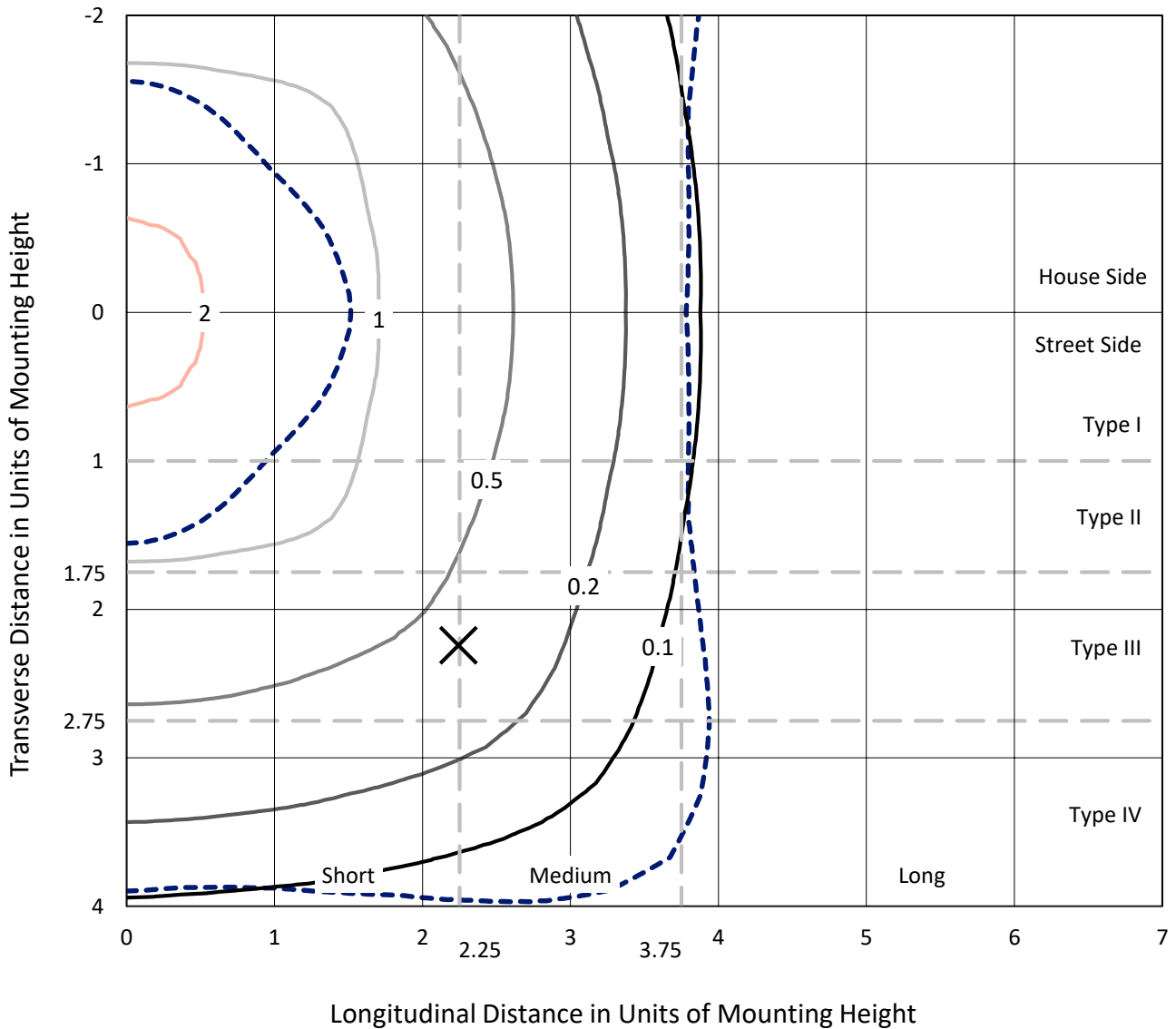


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

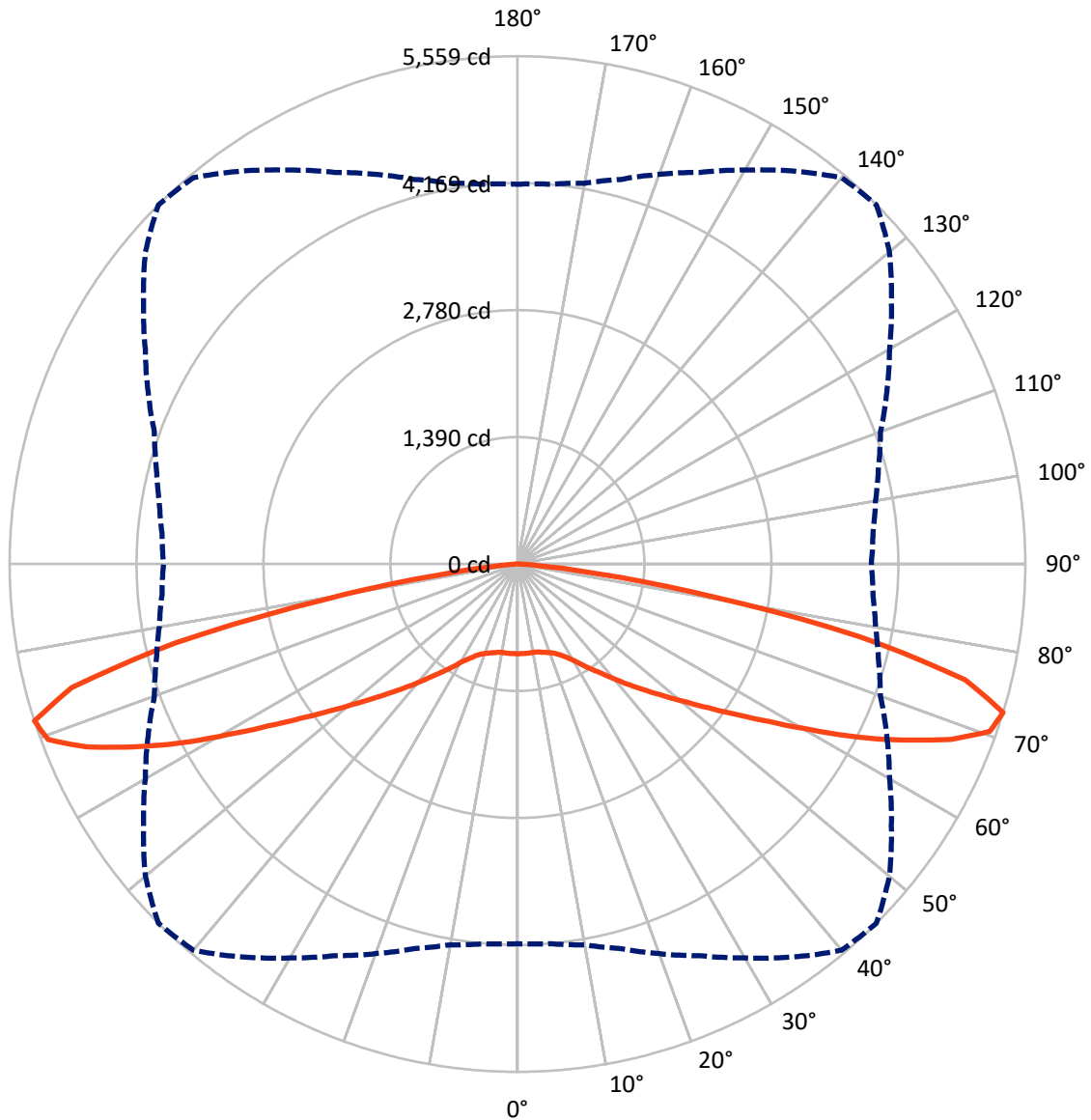


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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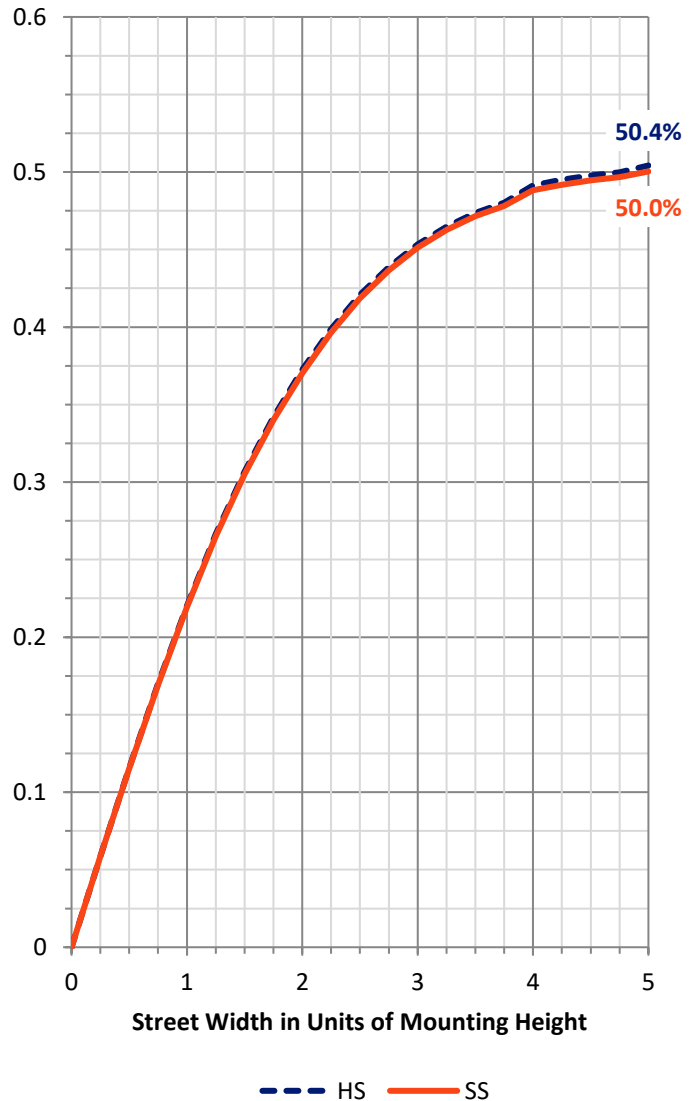
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6941.2	0.0	6941.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6941.2	0.0	6941.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13882.5	0.0	13882.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	0.7
10°-20°	285.1	2.1
20°-30°	521.0	3.8
30°-40°	898.3	6.5
40°-50°	1535.6	11.1
50°-60°	2489.1	17.9
60°-70°	4129.3	29.7
70°-80°	3636.9	26.2
80°-90°	293.2	2.1
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°	13882.5	100.0
0°-180°	13882.5	100.0



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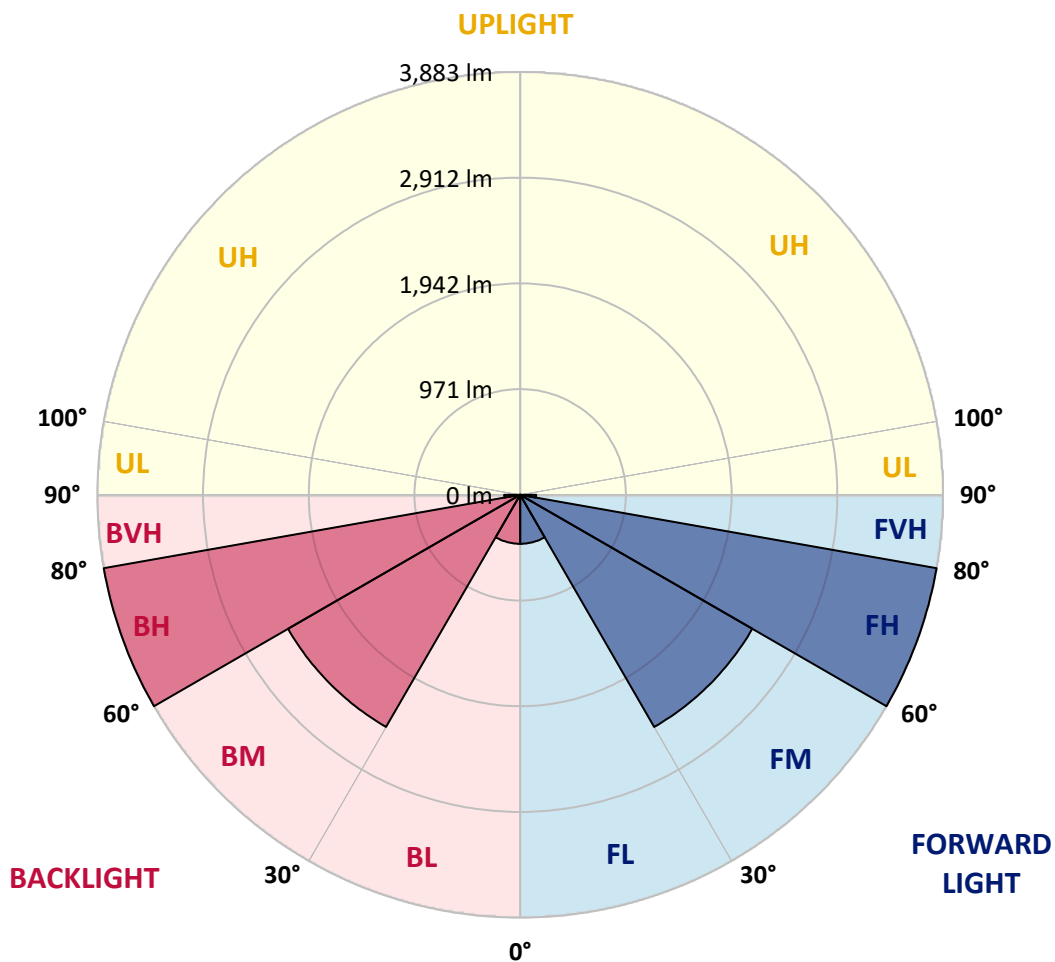
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.0	3.2			
FM (30°-60°)	2461.5	17.7			
FH (60°-80°)	3883.1	28.0			G2/5000
FVH (80°-90°)	146.6	1.1			G2/225
BL (0°-30°)	450.0	3.2	B1/500		
BM (30°-60°)	2461.5	17.7	B2/2500		
BH (60°-80°)	3883.1	28.0	B4/5000		G2/5000
BVH (80°-90°)	146.6	1.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2
2.5°	983.2	983.8	984.3	983.8	983.8	983.2	982.5	983.2	982.5	981.1	981.8
5°	986.3	987.6	987.6	986.3	986.9	986.3	985.0	985.6	984.3	982.5	982.5
7.5°	990.1	990.8	990.8	989.5	990.1	988.8	987.6	986.9	985.6	983.2	981.1
10°	995.8	996.5	995.8	994.6	994.6	992.6	989.5	988.1	985.6	981.8	979.9
12.5°	1002.2	1002.8	1002.2	1001.0	1000.3	997.1	994.6	992.6	990.8	987.6	984.3
15°	1011.0	1012.4	1011.0	1008.6	1006.6	1004.1	1002.8	1003.4	1004.1	1001.6	998.4
17.5°	1027.7	1028.3	1026.4	1020.7	1018.1	1015.6	1015.6	1016.8	1018.8	1017.5	1014.3
20°	1058.1	1056.3	1051.8	1044.8	1041.7	1037.2	1036.6	1037.2	1037.2	1036.6	1034.0
22.5°	1096.4	1095.1	1089.5	1080.5	1076.1	1073.5	1069.6	1066.5	1065.9	1063.9	1061.5
25°	1142.3	1141.6	1134.6	1127.0	1123.8	1120.7	1117.4	1113.1	1109.2	1104.7	1102.2
27.5°	1200.9	1198.3	1188.0	1184.3	1179.9	1178.0	1173.5	1168.4	1165.2	1159.5	1156.3
30°	1265.1	1265.1	1256.9	1255.6	1255.6	1251.1	1246.1	1237.2	1231.5	1225.7	1223.8
32.5°	1329.4	1330.1	1321.8	1324.3	1326.3	1329.4	1330.8	1327.6	1323.7	1323.1	1319.3
35°	1422.4	1420.0	1411.6	1413.5	1412.8	1412.2	1412.2	1419.3	1420.5	1421.8	1414.2
37.5°	1537.8	1537.8	1529.4	1529.4	1525.6	1521.8	1516.6	1521.1	1528.1	1530.0	1524.9
40°	1669.5	1674.0	1663.8	1663.2	1664.3	1652.3	1646.5	1653.5	1658.0	1665.6	1659.9
42.5°	1824.8	1821.7	1811.5	1810.2	1803.3	1799.4	1794.2	1800.0	1807.0	1812.1	1814.0
45°	1973.9	1971.2	1959.8	1959.8	1952.8	1949.6	1952.1	1961.7	1964.9	1971.9	1978.9
47.5°	2120.9	2117.8	2110.2	2113.3	2113.9	2119.6	2128.0	2136.8	2145.8	2155.2	2158.5
50°	2271.2	2271.8	2263.6	2271.2	2280.7	2296.6	2318.9	2333.6	2352.1	2364.2	2367.9
52.5°	2408.1	2410.6	2419.5	2437.3	2456.4	2487.7	2525.8	2561.5	2592.0	2612.5	2611.2
55°	2572.4	2576.2	2597.8	2628.3	2659.6	2706.7	2763.3	2826.4	2877.4	2906.7	2888.2
57.5°	2782.5	2790.7	2814.9	2856.4	2902.8	2963.9	3041.6	3136.5	3215.4	3255.0	3225.0
60°	3071.0	3075.9	3105.2	3151.1	3207.2	3282.9	3386.7	3514.1	3625.4	3677.6	3643.4
62.5°	3451.1	3460.6	3484.2	3530.6	3588.0	3673.9	3800.6	3959.8	4098.6	4171.2	4093.5
65°	3905.0	3935.5	3955.3	4002.3	4055.9	4146.9	4279.3	4450.0	4599.0	4646.8	4556.9
67.5°	4354.5	4381.3	4415.6	4469.8	4523.9	4626.4	4749.3	4914.8	5078.5	5121.7	4982.3
70°	4551.3	4566.6	4620.0	4693.9	4797.7	4918.7	5060.7	5246.5	5449.1	5484.7	5307.7
72.5°	4157.1	4172.4	4232.2	4357.7	4538.5	4730.8	4978.5	5251.6	5519.1	5559.2	5315.4
75°	3144.2	3119.3	3207.8	3373.9	3617.8	3886.0	4232.2	4623.9	5010.3	5060.7	4769.7
77.5°	1624.9	1621.7	1688.6	1894.9	2185.8	2490.9	2872.2	3314.8	3693.0	3845.8	3609.0
80°	457.8	462.9	494.7	597.2	767.2	987.6	1285.6	1700.1	2009.5	2167.3	2035.0
82.5°	179.5	193.6	205.6	224.7	247.0	279.4	373.1	555.2	744.9	890.1	729.1
85°	64.4	68.8	97.5	115.3	117.1	123.6	140.7	164.3	198.0	236.2	194.2
87.5°	24.1	26.8	31.2	51.6	51.0	46.4	56.7	59.2	44.6	40.8	50.3
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°	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2
2.5°	980.6	981.1	981.1	981.8	982.5	982.5	983.8	983.8
5°	981.1	981.1	979.9	980.6	979.9	979.9	980.6	980.6
7.5°	979.9	979.3	978.0	977.4	976.1	976.1	976.1	976.1
10°	978.0	977.4	976.1	975.4	974.8	974.8	974.8	974.8
12.5°	983.2	981.1	979.9	979.3	979.3	979.3	979.3	979.3
15°	996.5	992.0	988.8	988.8	989.5	990.8	990.8	992.0
17.5°	1013.1	1007.9	1004.7	1002.2	1003.4	1005.4	1006.6	1007.9
20°	1032.7	1030.2	1025.7	1023.2	1023.2	1025.7	1027.0	1027.7
22.5°	1060.2	1058.1	1056.3	1053.1	1053.1	1054.5	1057.0	1057.0
25°	1100.9	1099.5	1098.4	1095.8	1095.1	1095.1	1096.4	1097.7
27.5°	1151.8	1152.4	1151.1	1150.5	1148.7	1148.0	1150.0	1149.3
30°	1220.0	1223.1	1226.3	1223.8	1220.7	1218.7	1216.8	1214.2
32.5°	1312.3	1308.5	1305.8	1301.5	1295.7	1290.7	1286.8	1282.3
35°	1399.5	1393.2	1390.6	1394.3	1393.8	1390.6	1386.2	1382.3
37.5°	1506.4	1505.1	1506.4	1513.5	1512.2	1515.4	1506.4	1505.8
40°	1641.5	1642.7	1651.7	1659.9	1664.3	1668.8	1663.8	1658.7
42.5°	1798.1	1797.5	1800.6	1812.1	1819.7	1824.8	1814.0	1812.7
45°	1963.6	1959.2	1961.7	1971.2	1978.9	1984.7	1972.5	1972.5
47.5°	2145.8	2138.1	2129.8	2140.6	2145.1	2148.9	2139.4	2136.2
50°	2348.8	2332.9	2315.1	2319.6	2319.6	2318.3	2306.3	2305.6
52.5°	2581.9	2552.7	2520.2	2508.0	2501.1	2493.4	2472.4	2462.1
55°	2849.9	2806.0	2755.1	2723.9	2707.3	2686.3	2651.2	2641.8
57.5°	3163.3	3094.4	3006.6	2968.3	2931.4	2897.1	2858.2	2847.4
60°	3534.4	3433.2	3316.7	3246.0	3205.8	3172.8	3132.7	3130.8
62.5°	3948.3	3788.4	3656.7	3593.0	3563.7	3534.4	3496.2	3501.3
65°	4369.2	4202.3	4078.8	4027.3	3999.9	3975.7	3937.4	3943.1
67.5°	4784.4	4630.9	4495.3	4442.4	4411.8	4381.3	4346.9	4352.7
70°	5082.3	4891.9	4739.1	4622.0	4548.7	4466.0	4412.4	4399.1
72.5°	4997.0	4703.5	4460.8	4228.5	4092.2	3981.4	3906.2	3873.8
75°	4324.6	3923.5	3611.4	3326.2	3165.8	3035.2	2940.3	2881.1
77.5°	3211.5	2760.8	2392.1	2063.6	1803.9	1629.4	1506.4	1426.9
80°	1758.0	1337.2	977.4	687.0	504.9	419.5	370.6	347.0
82.5°	547.6	353.4	260.4	224.7	208.8	200.0	185.3	161.7
85°	174.5	152.9	142.0	135.6	129.3	112.6	77.7	70.7
87.5°	67.5	69.4	68.8	64.9	66.2	47.7	38.2	33.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)