

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: P270203

Luminaire Tested: **GWC-AF-02-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270203
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: GWC-AF-02-LED-E1-RW-7027-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8912.8 lumens
Efficiency: N/A
Efficacy: 103.6 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): 86
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

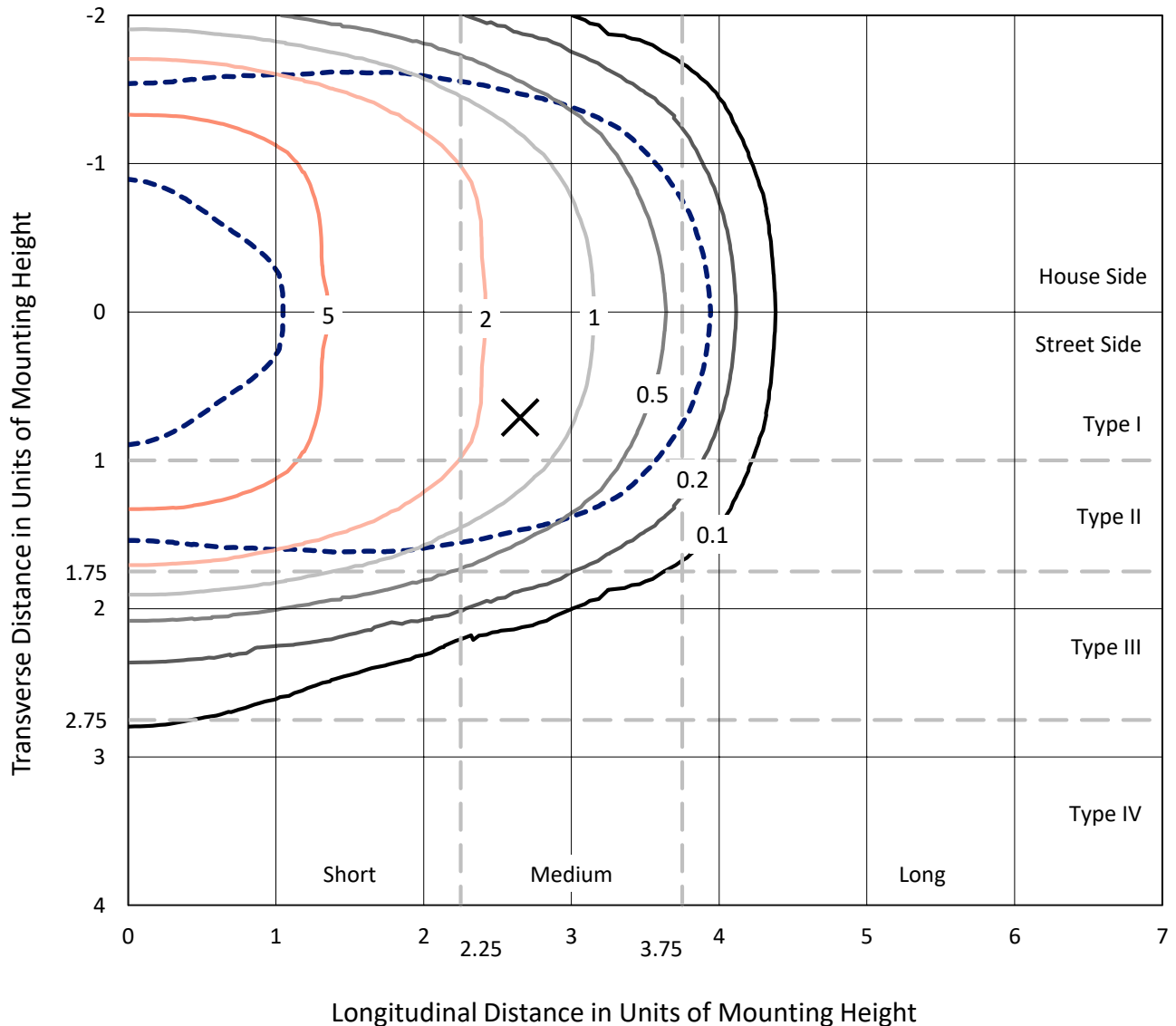


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Iso-Footcandle Lines of Horizontal Illumination

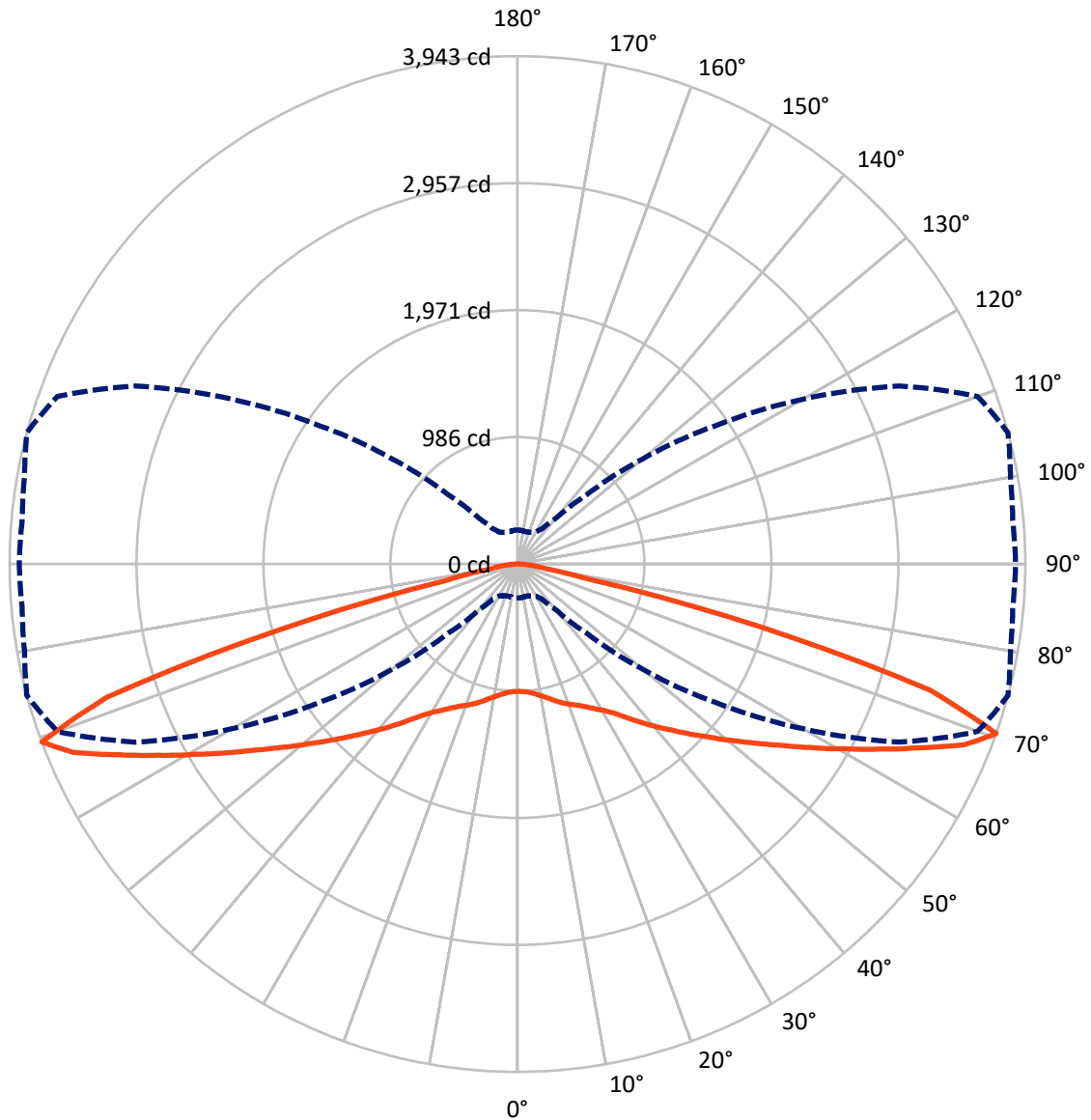
× Max cd
 - - - 1/2 Max cd



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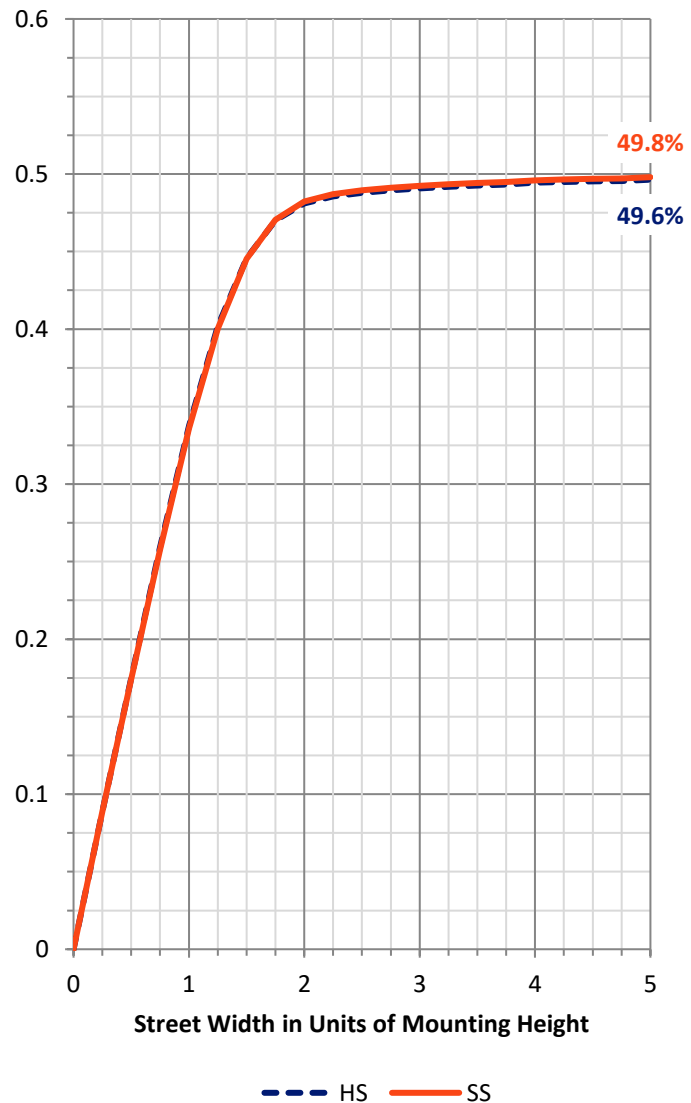
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4456.4	0.0	4456.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4456.4	0.0	4456.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	8912.8	0.0	8912.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.1
10°-20°	294.6	3.3
20°-30°	554.5	6.2
30°-40°	981.9	11.0
40°-50°	1642.1	18.4
50°-60°	2288.3	25.7
60°-70°	2122.0	23.8
70°-80°	845.7	9.5
80°-90°	88.9	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°	8912.8	100.0
0°-180°	8912.8	100.0



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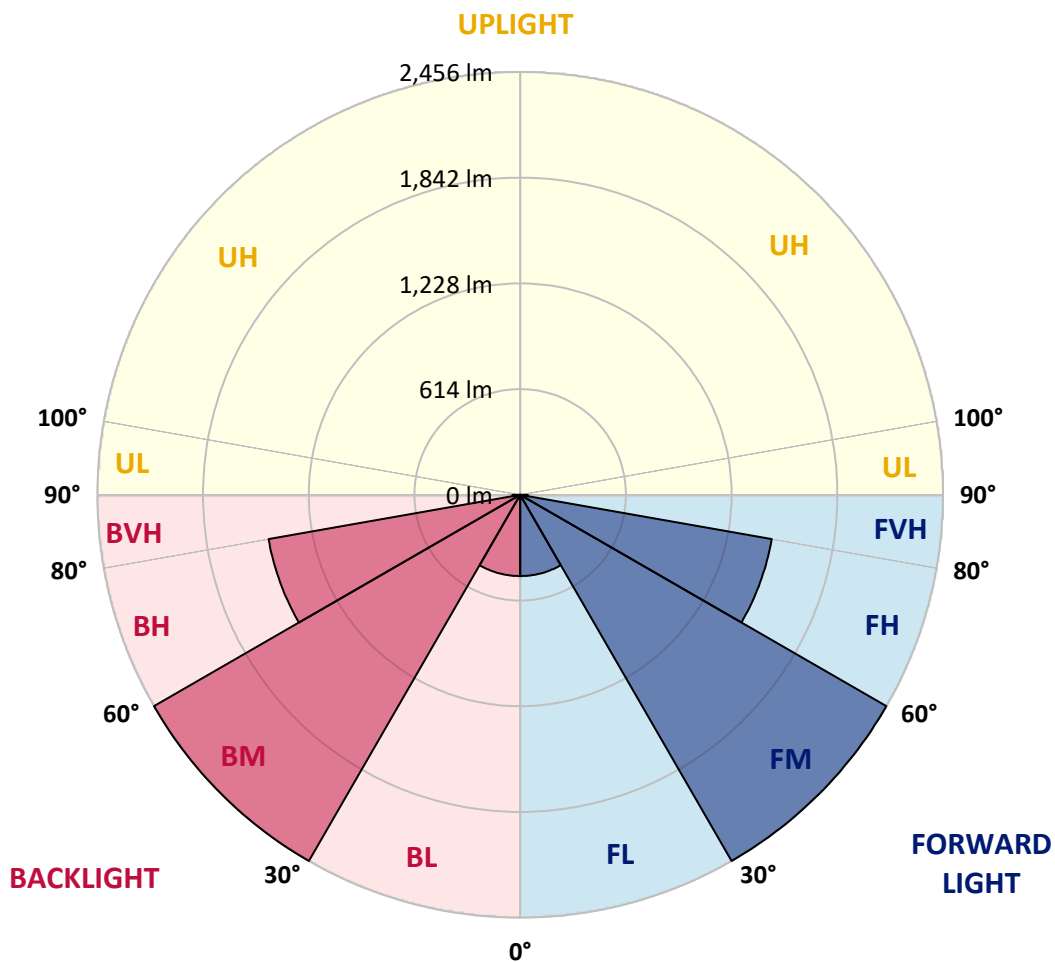
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.0	5.3			
FM	(30°-60°)	2456.2	27.6			
FH	(60°-80°)	1483.8	16.6			G1/1800
FVH	(80°-90°)	44.4	0.5			G1/100
BL	(0°-30°)	472.0	5.3	B1/500		
BM	(30°-60°)	2456.2	27.6	B2/2500		
BH	(60°-80°)	1483.8	16.6	B3/2500		G3/2500
BVH	(80°-90°)	44.4	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°	988.7	988.7	988.7	988.7	988.7	988.7	988.7	988.7	988.7	988.7	988.7
2.5°	987.0	986.1	987.0	986.5	987.3	987.3	988.2	989.9	989.9	991.2	990.7
5°	977.3	976.8	978.2	979.4	980.6	983.1	985.7	989.6	992.4	994.6	996.6
7.5°	958.3	958.3	960.0	963.0	965.9	971.3	977.3	984.8	992.4	998.7	1004.2
10°	942.7	943.6	945.6	950.8	955.7	964.2	972.2	983.1	993.6	1004.2	1012.7
12.5°	933.5	934.7	938.5	946.0	954.4	965.9	978.2	992.0	1003.8	1016.4	1024.8
15°	936.5	937.2	942.7	952.1	963.0	977.3	993.6	1010.1	1024.0	1037.5	1049.0
17.5°	952.8	954.1	960.4	971.0	982.3	999.2	1016.8	1035.3	1052.6	1067.8	1081.6
20°	982.3	983.6	991.5	1003.0	1016.4	1033.7	1051.3	1070.8	1090.2	1106.2	1121.8
22.5°	1024.0	1026.1	1033.7	1045.1	1060.3	1078.8	1099.9	1120.5	1139.1	1153.8	1167.6
25°	1078.8	1083.4	1090.6	1103.2	1119.2	1136.0	1158.9	1179.8	1197.6	1211.5	1221.5
27.5°	1156.3	1162.5	1168.1	1180.4	1196.0	1212.0	1234.6	1253.1	1270.1	1283.5	1291.0
30°	1259.1	1265.4	1270.8	1282.7	1297.1	1312.2	1333.7	1350.1	1360.7	1371.2	1370.8
32.5°	1383.7	1390.4	1392.6	1405.3	1420.0	1436.4	1455.9	1465.0	1473.5	1474.7	1467.1
35°	1523.2	1526.6	1534.9	1551.8	1568.7	1582.2	1600.7	1605.4	1605.4	1599.1	1582.2
37.5°	1676.1	1678.3	1690.0	1708.9	1726.3	1740.1	1752.8	1762.0	1757.4	1743.9	1715.8
40°	1843.7	1847.5	1864.4	1881.2	1900.6	1913.7	1927.1	1928.8	1924.2	1904.3	1866.0
42.5°	2003.8	2007.3	2024.1	2050.7	2075.9	2093.9	2106.5	2109.1	2094.4	2076.3	2028.6
45°	2141.6	2150.5	2172.3	2203.5	2240.2	2265.9	2283.1	2290.3	2277.3	2253.6	2198.4
47.5°	2250.7	2259.4	2290.7	2327.8	2373.2	2415.0	2443.6	2458.8	2455.3	2437.7	2377.5
50°	2330.7	2339.1	2372.9	2418.2	2471.3	2523.2	2572.0	2608.3	2621.0	2612.9	2557.7
52.5°	2339.9	2353.9	2393.4	2454.6	2523.6	2594.3	2664.0	2725.4	2767.0	2773.3	2732.6
55°	2210.6	2224.6	2279.3	2369.9	2472.7	2588.0	2699.2	2802.9	2885.0	2927.1	2905.7
57.5°	1905.7	1930.5	1988.2	2094.4	2245.7	2418.2	2595.7	2779.7	2947.0	3058.5	3080.1
60°	1460.5	1489.8	1548.0	1661.0	1829.4	2035.4	2272.2	2544.3	2839.5	3090.6	3240.5
62.5°	936.8	964.6	1025.8	1123.9	1261.2	1484.4	1738.4	2061.5	2458.3	2854.8	3211.9
65°	481.5	496.7	528.7	588.0	695.1	861.8	1089.7	1412.0	1865.7	2354.6	2871.2
67.5°	305.0	307.8	315.0	323.5	350.9	408.5	514.8	715.7	1088.8	1599.1	2203.5
70°	263.7	263.7	260.2	259.0	262.5	270.4	286.9	333.6	459.6	759.1	1270.8
72.5°	241.4	238.8	232.9	228.3	227.5	227.5	230.9	238.1	258.3	309.1	497.5
75°	222.4	215.2	207.2	201.8	199.7	197.5	197.2	198.3	202.6	210.7	237.6
77.5°	199.2	190.0	180.6	175.2	172.7	169.8	167.3	164.3	162.1	164.7	176.4
80°	171.4	160.8	153.8	150.3	147.9	143.6	138.2	133.0	128.5	127.6	134.7
82.5°	138.2	125.9	126.4	127.6	123.0	117.0	111.2	105.7	97.7	93.6	97.7
85°	111.6	105.3	102.3	110.3	103.7	94.9	85.5	75.8	63.2	53.1	57.8
87.5°	43.4	43.4	64.9	99.8	89.7	73.3	62.7	53.4	33.2	25.7	26.1
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°	988.7	988.7	988.7	988.7	988.7	988.7	988.7	988.7
2.5°	990.3	991.2	990.7	990.3	990.3	989.9	990.3	990.3
5°	997.8	1000.1	1000.1	1000.8	1000.8	1001.3	1001.7	1001.3
7.5°	1009.2	1013.1	1015.7	1018.6	1018.9	1019.3	1020.3	1019.3
10°	1020.7	1028.2	1033.7	1039.2	1041.8	1042.6	1043.4	1043.4
12.5°	1034.9	1045.4	1055.1	1064.9	1069.5	1072.0	1072.0	1073.7
15°	1058.6	1069.2	1080.5	1093.5	1101.5	1105.8	1107.0	1107.0
17.5°	1091.8	1101.1	1110.8	1123.4	1133.5	1139.1	1140.3	1139.9
20°	1130.5	1139.4	1144.9	1153.0	1161.8	1168.1	1169.8	1169.8
22.5°	1174.9	1179.8	1180.7	1183.2	1190.4	1198.9	1202.7	1203.5
25°	1223.8	1225.0	1221.5	1221.5	1226.2	1234.2	1238.0	1238.5
27.5°	1286.9	1280.5	1272.1	1269.1	1272.1	1281.4	1286.1	1287.7
30°	1365.7	1350.5	1331.1	1320.6	1318.9	1331.1	1339.6	1340.8
32.5°	1455.9	1433.9	1408.3	1386.8	1381.2	1388.8	1398.9	1398.5
35°	1562.8	1536.7	1505.5	1478.2	1465.5	1473.1	1487.4	1489.1
37.5°	1686.2	1652.2	1616.3	1581.7	1562.0	1564.0	1579.2	1584.3
40°	1824.0	1779.7	1734.6	1688.4	1660.1	1654.6	1673.2	1676.1
42.5°	1971.4	1914.5	1857.7	1800.4	1764.1	1755.6	1777.1	1775.9
45°	2128.5	2056.0	1989.4	1926.3	1883.3	1870.7	1888.3	1888.3
47.5°	2297.4	2208.2	2129.0	2057.3	2010.5	1992.4	2009.2	2010.5
50°	2476.4	2381.6	2288.6	2208.9	2153.0	2129.8	2151.7	2155.0
52.5°	2654.6	2562.3	2468.5	2377.5	2309.6	2281.4	2306.7	2317.6
55°	2835.3	2744.9	2655.0	2566.2	2485.7	2452.5	2479.4	2493.2
57.5°	3026.2	2942.3	2856.8	2767.0	2689.5	2637.8	2666.3	2684.9
60°	3249.9	3178.3	3089.4	2990.4	2911.9	2859.3	2875.7	2892.3
62.5°	3426.8	3454.5	3379.2	3264.6	3163.9	3096.5	3112.4	3129.8
65°	3341.2	3626.4	3693.4	3577.6	3438.2	3333.3	3326.6	3335.3
67.5°	2792.8	3346.7	3750.8	3861.1	3744.3	3598.6	3571.7	3584.7
70°	1868.1	2558.2	3270.9	3801.6	3942.8	3886.3	3859.7	3867.8
72.5°	897.2	1489.8	2219.1	2924.6	3354.4	3551.4	3614.6	3645.4
75°	328.2	591.4	1069.5	1611.6	1945.6	2252.3	2452.5	2534.2
77.5°	197.9	238.8	341.6	514.3	582.6	652.1	625.1	638.5
80°	146.7	165.6	187.4	210.7	218.2	218.2	209.8	203.0
82.5°	102.8	115.1	125.6	138.2	141.6	135.3	111.2	88.5
85°	66.1	71.7	76.3	84.3	82.1	78.3	52.6	46.7
87.5°	30.4	34.6	36.2	40.1	38.4	36.7	26.1	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)