

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: P270191

Luminaire Tested: **GWC-AF-02-LED-E1-5MQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7027-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9161.1 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

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

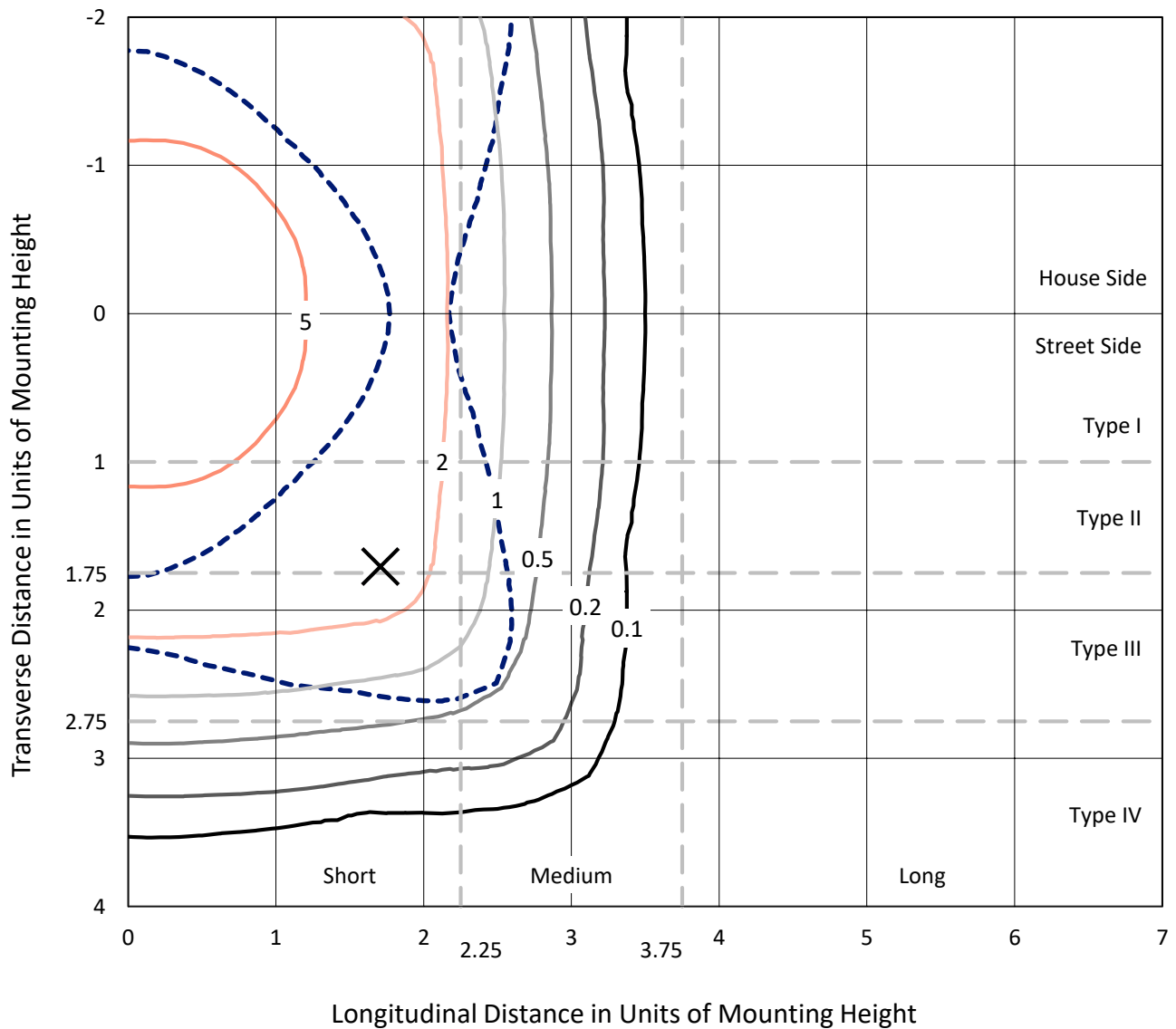


REPORT NUMBER: P270191

CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7027-800

Iso-Footcandle Lines of Horizontal Illumination

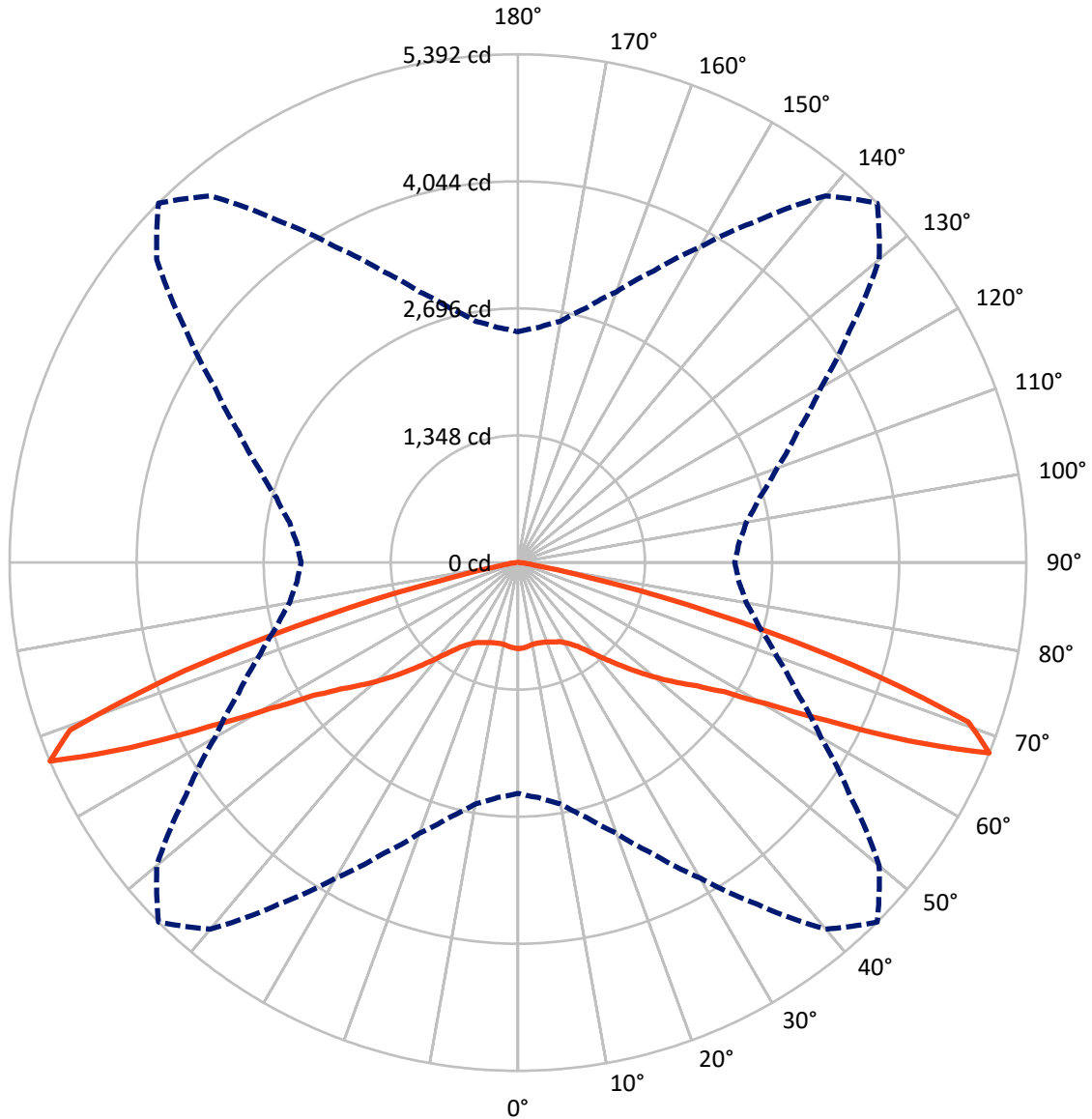
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P270191
CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P270191

CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7027-800

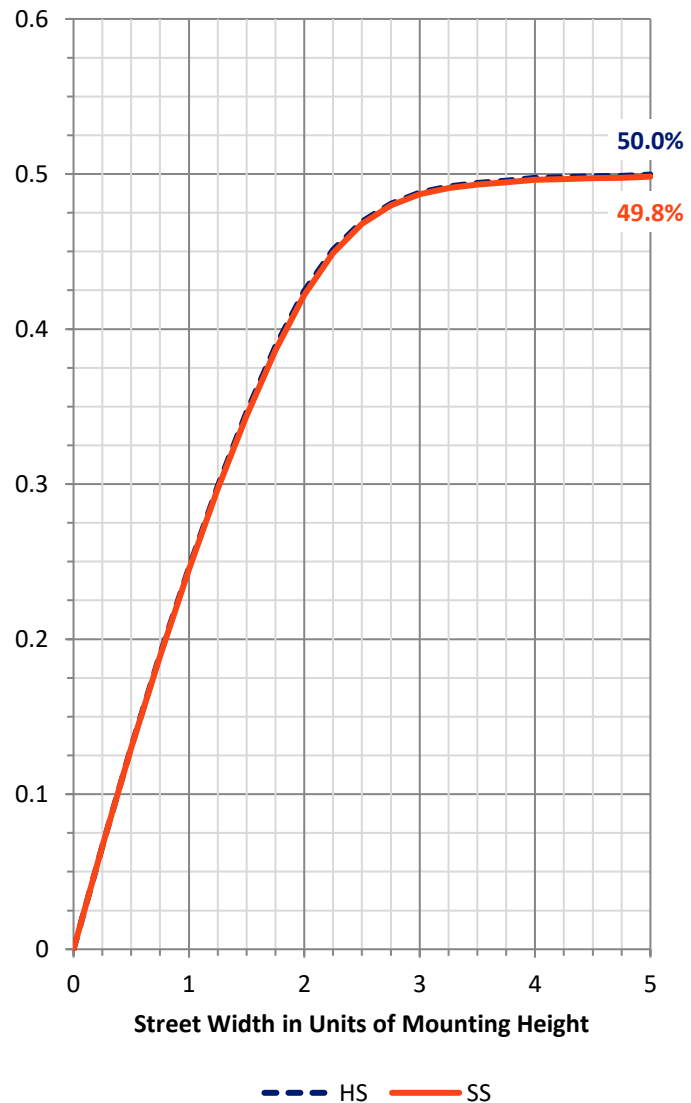
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4580.6	0.0	4580.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4580.6	0.0	4580.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9161.1	0.0	9161.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	0.9
10°-20°	248.0	2.7
20°-30°	421.5	4.6
30°-40°	689.1	7.5
40°-50°	1230.1	13.4
50°-60°	2073.9	22.6
60°-70°	3218.4	35.1
70°-80°	1130.8	12.3
80°-90°	63.9	0.7
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°	9161.1	100.0
0°-180°	9161.1	100.0



REPORT NUMBER: P270191

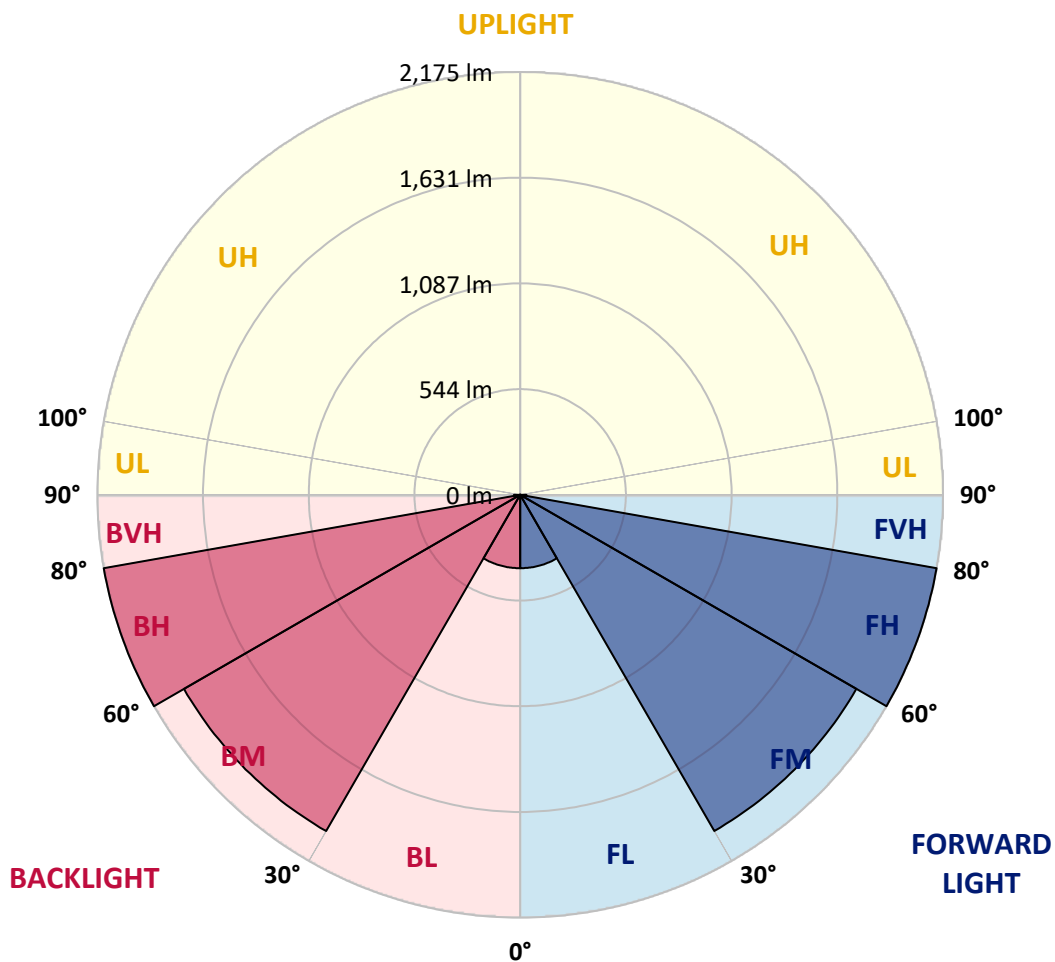
CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.5	4.1			
FM	(30°-60°)	1996.5	21.8			
FH	(60°-80°)	2174.6	23.7			G2/5000
FVH	(80°-90°)	31.9	0.3			G1/100
BL	(0°-30°)	377.5	4.1	B1/500		
BM	(30°-60°)	1996.5	21.8	B2/2500		
BH	(60°-80°)	2174.6	23.7	B3/2500		G2/5000
BVH	(80°-90°)	31.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P270191

CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9
2.5°	909.5	910.4	910.4	910.4	910.1	910.1	909.2	910.1	909.5	908.4	908.7
5°	902.0	902.8	902.8	902.3	903.7	903.2	902.0	902.8	902.3	901.5	902.0
7.5°	891.1	892.2	892.2	891.8	893.2	892.7	891.8	892.2	892.2	891.1	891.1
10°	878.8	879.7	879.7	879.3	881.3	881.3	880.9	882.1	882.7	881.3	880.5
12.5°	867.5	868.8	868.8	870.4	872.6	873.3	875.5	877.1	878.8	878.5	876.7
15°	860.7	861.6	863.2	865.3	868.8	871.6	874.9	878.8	882.1	883.0	880.5
17.5°	856.5	857.7	860.2	863.2	867.9	873.0	878.0	883.0	887.6	889.3	886.4
20°	855.2	856.1	858.6	863.7	870.0	877.6	884.7	890.6	897.0	899.1	897.0
22.5°	857.7	859.5	862.5	868.3	876.7	886.4	894.8	902.8	910.8	914.7	911.7
25°	869.1	870.7	874.6	882.1	891.5	901.5	911.3	920.6	927.7	931.5	929.3
27.5°	890.2	892.2	897.0	904.6	914.7	925.6	936.2	943.7	949.6	950.9	948.3
30°	921.8	926.4	931.9	940.3	952.2	961.4	972.0	978.7	985.8	985.8	983.7
32.5°	971.1	975.6	981.6	989.7	998.8	1008.9	1018.3	1024.2	1031.8	1032.2	1027.1
35°	1044.8	1047.0	1051.9	1057.0	1065.5	1074.4	1082.3	1086.1	1092.3	1092.9	1088.1
37.5°	1142.1	1142.6	1145.9	1147.7	1155.2	1164.9	1172.5	1175.1	1180.9	1180.1	1175.4
40°	1255.4	1257.5	1258.9	1261.4	1269.3	1278.6	1286.6	1287.9	1294.2	1293.0	1287.0
42.5°	1386.4	1387.3	1394.4	1398.3	1405.8	1410.5	1420.6	1421.8	1429.5	1426.1	1419.3
45°	1533.4	1541.1	1547.8	1555.4	1563.4	1568.9	1577.0	1575.2	1580.3	1575.2	1571.5
47.5°	1688.2	1693.7	1708.8	1720.6	1733.5	1738.3	1749.7	1744.6	1749.7	1742.5	1741.3
50°	1858.4	1868.0	1881.1	1894.5	1908.4	1916.1	1930.7	1924.4	1931.3	1924.4	1920.7
52.5°	2025.9	2028.6	2057.2	2077.1	2096.4	2105.2	2114.0	2111.0	2111.6	2111.0	2107.3
55°	2185.2	2191.1	2219.8	2246.8	2280.4	2305.3	2320.5	2318.9	2315.0	2311.2	2305.0
57.5°	2364.7	2370.6	2403.4	2436.7	2475.1	2510.6	2541.2	2572.8	2585.1	2588.5	2574.5
60°	2607.4	2607.1	2650.8	2691.2	2745.9	2798.7	2866.0	2934.8	3013.5	3050.1	3001.7
62.5°	2854.3	2864.3	2927.5	2999.3	3112.1	3222.1	3346.4	3468.5	3593.2	3694.8	3586.9
65°	2824.8	2863.5	2957.5	3119.8	3328.2	3576.0	3843.8	4127.4	4383.5	4559.6	4362.1
67.5°	2448.2	2503.3	2598.9	2796.2	3056.9	3414.2	3864.1	4425.0	5076.6	5391.7	5001.3
70°	1774.5	1836.9	1937.1	2129.6	2388.0	2727.4	3216.2	3889.4	4752.3	5069.9	4639.7
72.5°	883.0	916.7	978.7	1101.2	1296.8	1572.3	2015.4	2662.5	3426.0	3717.5	3324.4
75°	299.9	315.6	326.1	366.1	428.0	536.3	756.6	1164.1	1775.8	2128.9	1750.4
77.5°	173.2	173.6	180.6	187.8	198.4	210.3	239.7	314.6	544.4	773.1	563.2
80°	112.1	111.6	117.6	123.0	130.2	136.1	137.8	145.7	168.2	199.2	178.3
82.5°	58.1	65.2	78.3	85.5	99.1	101.5	98.2	95.2	100.7	104.6	107.0
85°	32.0	27.8	41.7	53.9	59.8	60.6	60.6	57.3	59.4	58.1	63.2
87.5°	14.7	13.5	16.3	26.5	28.2	24.1	25.3	22.3	16.0	15.6	17.6
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: P270191

CATALOG NUMBER: GWC-AF-02-LED-E1-5MQ-7027-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9
2.5°	908.7	909.2	909.2	910.4	910.8	911.7	912.5	912.9
5°	901.5	902.8	902.0	903.2	903.2	904.1	904.1	904.6
7.5°	891.1	892.2	892.2	892.2	891.8	893.2	893.2	893.2
10°	880.1	880.9	880.5	879.7	878.8	880.1	879.7	879.3
12.5°	876.7	874.6	873.0	872.1	870.4	870.7	869.6	869.6
15°	878.8	874.9	872.1	870.7	869.1	868.3	867.5	867.9
17.5°	884.3	879.7	875.8	873.8	871.6	870.4	868.8	869.1
20°	894.1	888.6	883.0	878.8	874.9	873.0	871.6	871.3
22.5°	908.4	900.3	892.2	886.0	880.9	878.0	876.7	875.8
25°	924.7	915.9	906.6	899.5	894.4	890.6	888.1	888.1
27.5°	945.3	938.2	929.7	921.4	916.7	912.9	911.3	910.4
30°	980.0	973.3	966.4	958.4	952.6	948.8	945.8	943.3
32.5°	1024.2	1018.7	1013.2	1007.3	1001.8	996.8	992.2	990.0
35°	1086.5	1082.3	1078.5	1071.8	1069.7	1066.6	1064.2	1062.1
37.5°	1172.5	1170.9	1170.9	1163.7	1162.0	1160.7	1158.2	1158.5
40°	1285.4	1287.0	1284.9	1282.4	1281.2	1277.7	1277.7	1280.8
42.5°	1419.0	1420.2	1424.8	1420.6	1425.3	1420.9	1418.6	1420.6
45°	1574.0	1578.6	1587.8	1583.6	1586.5	1579.4	1570.5	1571.0
47.5°	1747.9	1752.1	1755.9	1753.0	1753.4	1741.6	1729.9	1726.9
50°	1928.8	1930.4	1932.4	1928.3	1929.1	1916.1	1902.6	1903.0
52.5°	2107.3	2115.2	2123.8	2112.4	2109.8	2095.0	2076.2	2068.5
55°	2311.7	2323.0	2313.3	2293.6	2273.7	2253.9	2229.1	2224.8
57.5°	2563.7	2544.2	2513.8	2476.4	2449.0	2421.2	2395.9	2385.4
60°	2914.1	2841.2	2786.5	2730.8	2695.9	2661.8	2628.5	2623.4
62.5°	3409.5	3283.6	3174.5	3059.4	2965.6	2892.3	2833.7	2817.3
65°	4030.5	3732.6	3474.5	3233.4	3024.1	2866.0	2766.6	2722.9
67.5°	4297.6	3709.6	3266.7	2924.6	2650.8	2459.5	2352.1	2298.7
70°	3776.5	3076.2	2594.8	2252.2	2002.9	1798.9	1701.6	1644.3
72.5°	2598.1	1956.9	1547.4	1263.0	1063.8	893.2	825.7	820.7
75°	1166.5	772.6	532.5	410.3	345.5	300.5	286.5	276.0
77.5°	326.5	241.5	215.2	201.4	187.8	172.4	166.5	167.7
80°	158.8	149.9	144.1	135.3	123.0	110.0	104.1	106.5
82.5°	105.3	104.1	107.8	101.5	83.8	71.1	59.8	54.7
85°	64.0	64.9	66.1	66.6	56.5	39.5	26.9	30.4
87.5°	25.3	29.0	31.6	32.9	30.7	19.0	15.2	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)