

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: P199920

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199920
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
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12655.5 lumens
Efficiency: N/A
Efficacy: 112.0 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

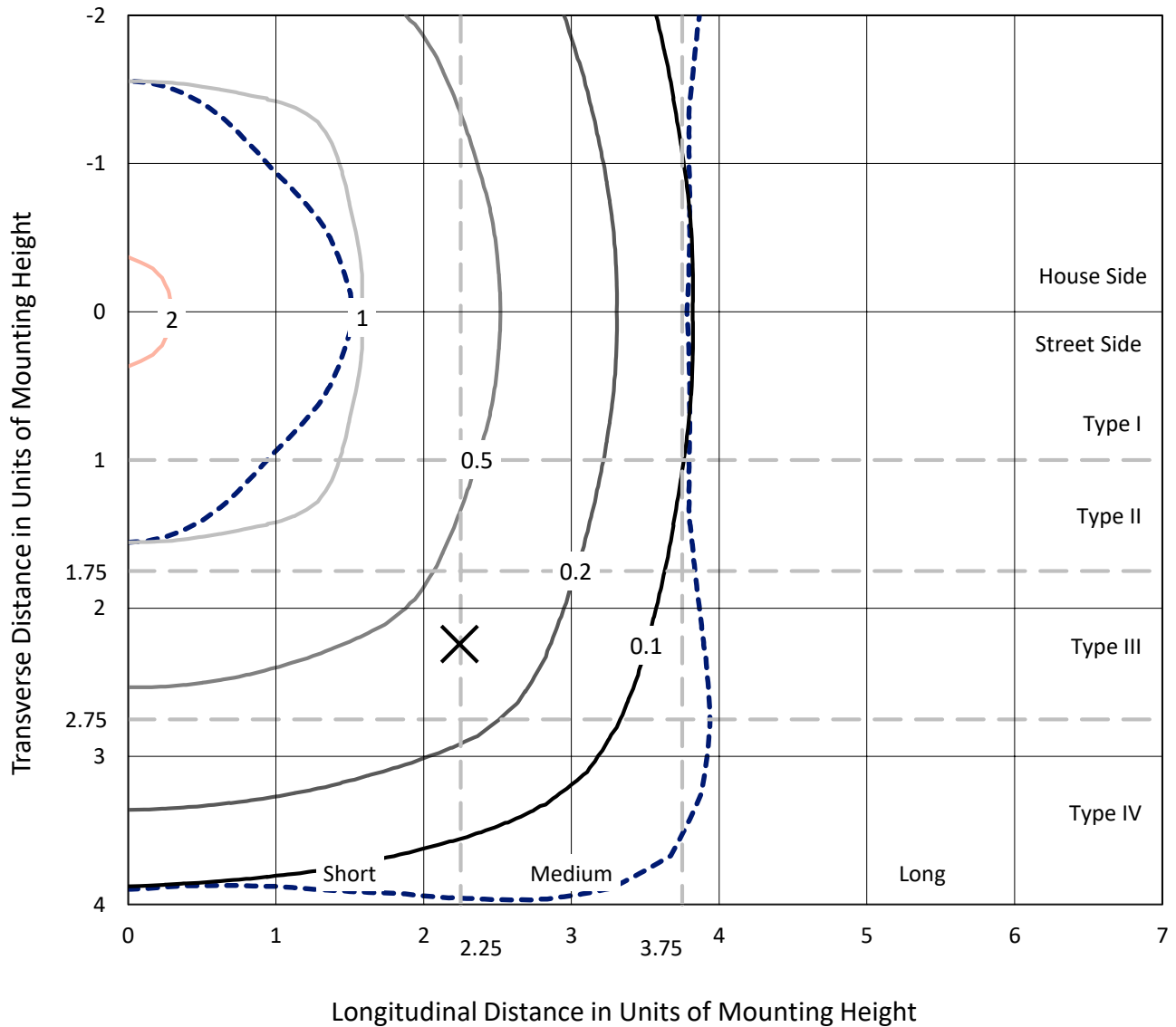
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P199920
 CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7030

Iso-Footcandle Lines of Horizontal Illumination

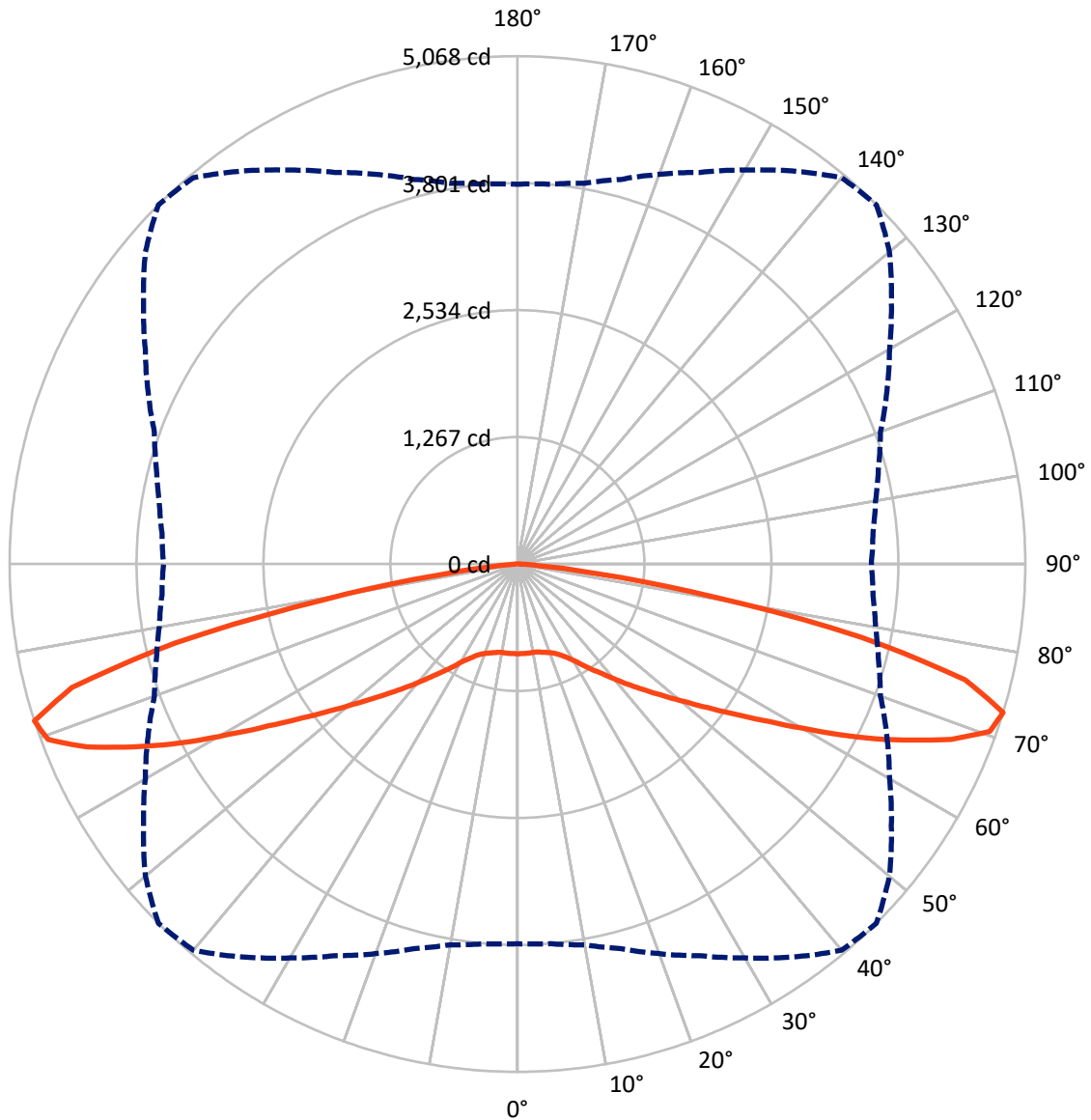
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P199920
CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P199920

CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6327.8	0.0	6327.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6327.8	0.0	6327.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	12655.5	0.0	12655.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	0.7
10°-20°	259.9	2.1
20°-30°	475.0	3.8
30°-40°	818.9	6.5
40°-50°	1399.9	11.1
50°-60°	2269.1	17.9
60°-70°	3764.3	29.7
70°-80°	3315.5	26.2
80°-90°	267.3	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°	12655.5	100.0
0°-180°	12655.5	100.0



REPORT NUMBER: P199920

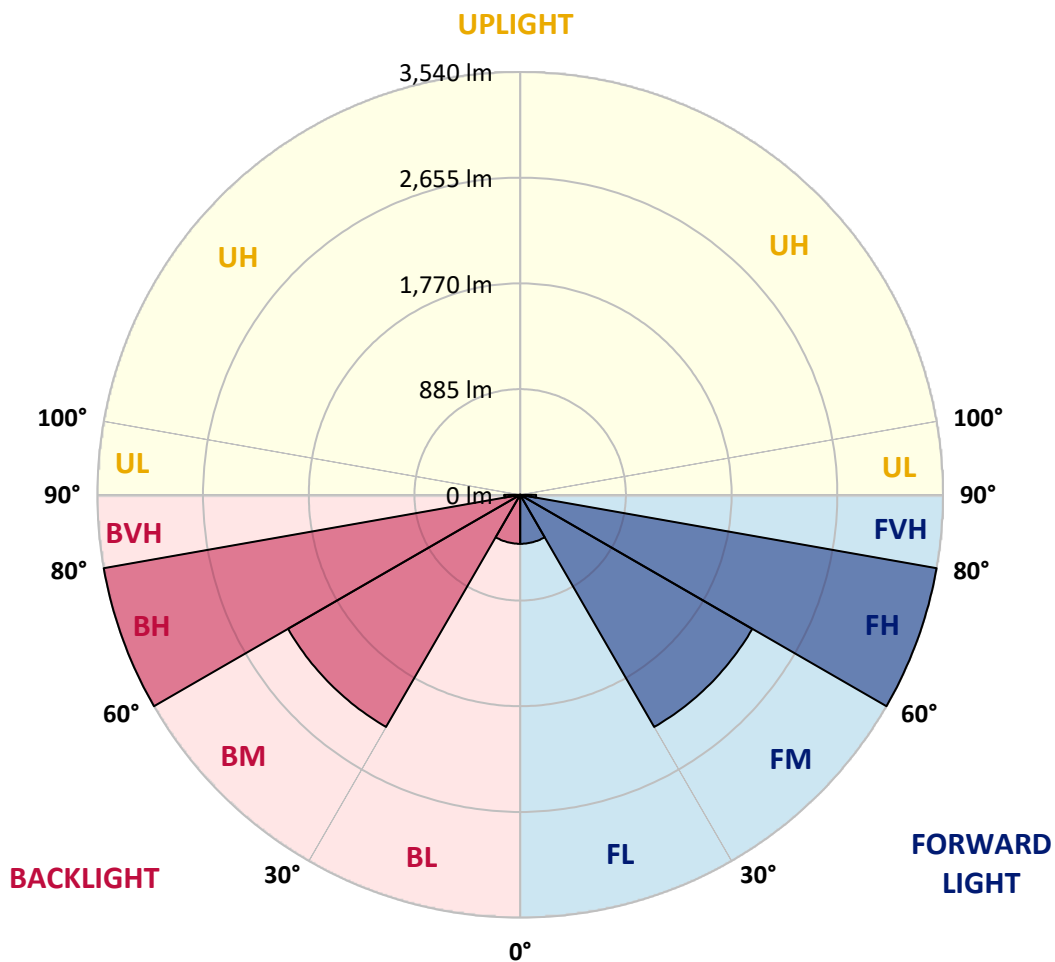
CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	410.2	3.2			
FM	(30°-60°)	2244.0	17.7			
FH	(60°-80°)	3539.9	28.0			G2/5000
FVH	(80°-90°)	133.7	1.1			G2/225
BL	(0°-30°)	410.2	3.2	B1/500		
BM	(30°-60°)	2244.0	17.7	B2/2500		
BH	(60°-80°)	3539.9	28.0	B4/5000		G2/5000
BVH	(80°-90°)	133.7	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





REPORT NUMBER: P199920

CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3
2.5°	896.3	896.8	897.3	896.8	896.8	896.3	895.6	896.3	895.6	894.5	895.1
5°	899.1	900.3	900.3	899.1	899.6	899.1	898.0	898.5	897.3	895.6	895.6
7.5°	902.6	903.1	903.1	902.1	902.6	901.4	900.3	899.6	898.5	896.3	894.5
10°	907.8	908.4	907.8	906.7	906.7	904.8	902.1	900.9	898.5	895.1	893.3
12.5°	913.6	914.2	913.6	912.5	911.9	908.9	906.7	904.8	903.1	900.3	897.3
15°	921.7	922.9	921.7	919.4	917.7	915.4	914.2	914.8	915.4	913.1	910.1
17.5°	936.8	937.5	935.7	930.5	928.1	925.9	925.9	926.9	928.7	927.5	924.7
20°	964.6	963.0	958.9	952.5	949.6	945.5	945.0	945.5	945.5	945.0	942.7
22.5°	999.5	998.4	993.1	985.0	980.9	978.6	975.1	972.3	971.7	969.9	967.6
25°	1041.4	1040.7	1034.3	1027.4	1024.6	1021.6	1018.8	1014.6	1011.0	1007.1	1004.7
27.5°	1094.7	1092.4	1083.1	1079.6	1075.5	1073.8	1069.7	1065.2	1062.2	1057.0	1054.2
30°	1153.3	1153.3	1145.8	1144.6	1144.6	1140.5	1136.0	1127.8	1122.5	1117.4	1115.6
32.5°	1212.0	1212.6	1205.0	1207.4	1209.1	1212.0	1213.1	1210.3	1206.8	1206.1	1202.7
35°	1296.7	1294.4	1286.8	1288.6	1288.0	1287.4	1287.4	1293.8	1294.9	1296.2	1289.1
37.5°	1401.8	1401.8	1394.2	1394.2	1390.8	1387.3	1382.5	1386.7	1393.0	1394.8	1390.3
40°	1521.9	1526.1	1516.7	1516.1	1517.3	1506.2	1501.0	1507.4	1511.5	1518.4	1513.2
42.5°	1663.6	1660.6	1651.4	1650.3	1643.8	1640.3	1635.7	1641.0	1647.3	1651.9	1653.6
45°	1799.4	1797.1	1786.6	1786.6	1780.3	1777.3	1779.7	1788.3	1791.3	1797.7	1804.0
47.5°	1933.5	1930.6	1923.6	1926.5	1927.2	1932.2	1939.9	1948.0	1956.1	1964.8	1967.8
50°	2070.5	2071.0	2063.5	2070.5	2079.2	2093.6	2113.9	2127.3	2144.2	2155.1	2158.6
52.5°	2195.2	2197.5	2205.7	2221.9	2239.4	2267.7	2302.6	2335.1	2363.0	2381.6	2380.4
55°	2345.0	2348.5	2368.2	2396.0	2424.5	2467.5	2519.1	2576.6	2623.0	2649.7	2632.9
57.5°	2536.6	2544.1	2566.2	2603.8	2646.3	2702.0	2772.8	2859.4	2931.2	2967.3	2939.9
60°	2799.4	2804.1	2830.8	2872.7	2923.7	2992.7	3087.3	3203.5	3305.1	3352.6	3321.3
62.5°	3146.0	3154.8	3176.1	3218.6	3270.7	3349.2	3464.7	3609.8	3736.3	3802.4	3731.6
65°	3559.8	3587.7	3605.8	3648.7	3697.5	3780.5	3901.2	4056.7	4192.5	4236.1	4154.2
67.5°	3969.6	3994.1	4025.3	4074.8	4124.1	4217.5	4329.5	4480.5	4629.7	4669.0	4542.0
70°	4149.0	4163.0	4211.7	4279.0	4373.6	4483.9	4613.4	4782.9	4967.5	4999.9	4838.5
72.5°	3789.7	3803.7	3858.2	3972.5	4137.4	4312.7	4538.5	4787.5	5031.3	5067.9	4845.5
75°	2866.2	2843.6	2924.4	3075.7	3298.1	3542.4	3858.2	4215.2	4567.5	4613.4	4348.1
77.5°	1481.3	1478.4	1539.4	1727.4	1992.7	2270.7	2618.4	3021.8	3366.6	3505.9	3289.9
80°	417.4	422.0	451.0	544.4	699.5	900.3	1172.0	1549.8	1831.8	1975.9	1855.1
82.5°	163.7	176.5	187.5	204.9	225.2	254.8	340.2	506.2	679.1	811.5	664.7
85°	58.7	62.8	88.8	105.1	106.8	112.6	128.3	149.8	180.5	215.3	177.0
87.5°	22.1	24.4	28.4	47.0	46.4	42.4	51.7	54.0	40.7	37.1	45.9
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: P199920

CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3
2.5°	893.8	894.5	894.5	895.1	895.6	895.6	896.8	896.8
5°	894.5	894.5	893.3	893.8	893.3	893.3	893.8	893.8
7.5°	893.3	892.7	891.5	891.0	889.8	889.8	889.8	889.8
10°	891.5	891.0	889.8	889.3	888.8	888.8	888.8	888.8
12.5°	896.3	894.5	893.3	892.7	892.7	892.7	892.7	892.7
15°	908.4	904.3	901.4	901.4	902.1	903.1	903.1	904.3
17.5°	923.5	918.9	915.9	913.6	914.8	916.5	917.7	918.9
20°	941.5	939.2	935.1	932.7	932.7	935.1	936.3	936.8
22.5°	966.4	964.6	963.0	960.1	960.1	961.3	963.5	963.5
25°	1003.5	1002.5	1001.3	998.9	998.4	998.4	999.5	1000.7
27.5°	1050.0	1050.6	1049.4	1048.9	1047.1	1046.6	1048.3	1047.7
30°	1112.1	1115.0	1117.9	1115.6	1112.7	1110.9	1109.2	1106.9
32.5°	1196.3	1192.8	1190.5	1186.4	1181.2	1176.6	1173.1	1169.0
35°	1275.8	1270.0	1267.7	1271.1	1270.5	1267.7	1263.6	1260.2
37.5°	1373.3	1372.2	1373.3	1379.7	1378.6	1381.5	1373.3	1372.8
40°	1496.5	1497.5	1505.7	1513.2	1517.3	1521.3	1516.7	1512.0
42.5°	1639.2	1638.6	1641.5	1651.9	1658.9	1663.6	1653.6	1652.5
45°	1790.1	1786.1	1788.3	1797.1	1804.0	1809.3	1798.2	1798.2
47.5°	1956.1	1949.1	1941.5	1951.5	1955.5	1959.0	1950.3	1947.4
50°	2141.3	2126.7	2110.5	2114.6	2114.6	2113.4	2102.3	2101.8
52.5°	2353.7	2327.0	2297.4	2286.4	2280.0	2273.0	2253.9	2244.6
55°	2598.0	2558.0	2511.6	2483.1	2468.0	2448.9	2417.0	2408.3
57.5°	2883.7	2821.0	2740.9	2706.1	2672.4	2641.1	2605.7	2595.8
60°	3222.0	3129.7	3023.5	2959.1	2922.5	2892.3	2855.8	2854.1
62.5°	3599.3	3453.6	3333.5	3275.5	3248.8	3222.0	3187.2	3191.9
65°	3983.0	3830.9	3718.3	3671.3	3646.3	3624.3	3589.5	3594.7
67.5°	4361.4	4221.6	4098.0	4049.8	4022.0	3994.1	3962.8	3968.0
70°	4633.1	4459.5	4320.2	4213.5	4146.7	4071.2	4022.5	4010.3
72.5°	4555.3	4287.8	4066.6	3854.7	3730.5	3629.5	3561.0	3531.4
75°	3942.4	3576.7	3292.3	3032.3	2886.0	2767.0	2680.4	2626.5
77.5°	2927.7	2516.8	2180.7	1881.2	1644.4	1485.4	1373.3	1300.7
80°	1602.7	1218.9	891.0	626.3	460.3	382.5	337.8	316.3
82.5°	499.2	322.1	237.4	204.9	190.4	182.3	169.0	147.4
85°	159.1	139.3	129.5	123.7	117.8	102.7	70.8	64.5
87.5°	61.5	63.3	62.8	59.2	60.4	43.4	34.9	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)