

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: P270197

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270197
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-7027
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 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: 11368.5 lumens
Efficiency: N/A
Efficacy: 100.6 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): 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

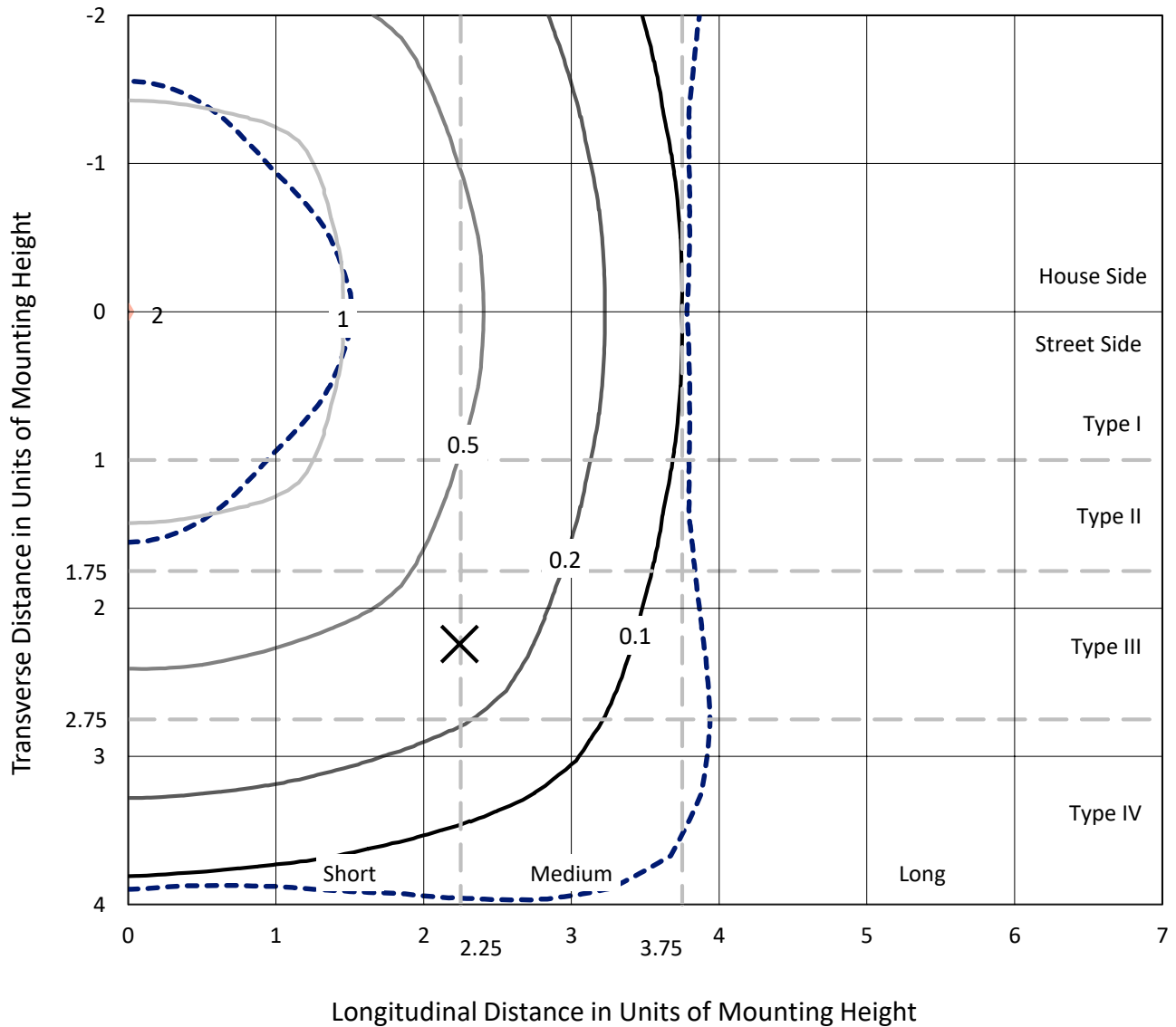


REPORT NUMBER: P270197

CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

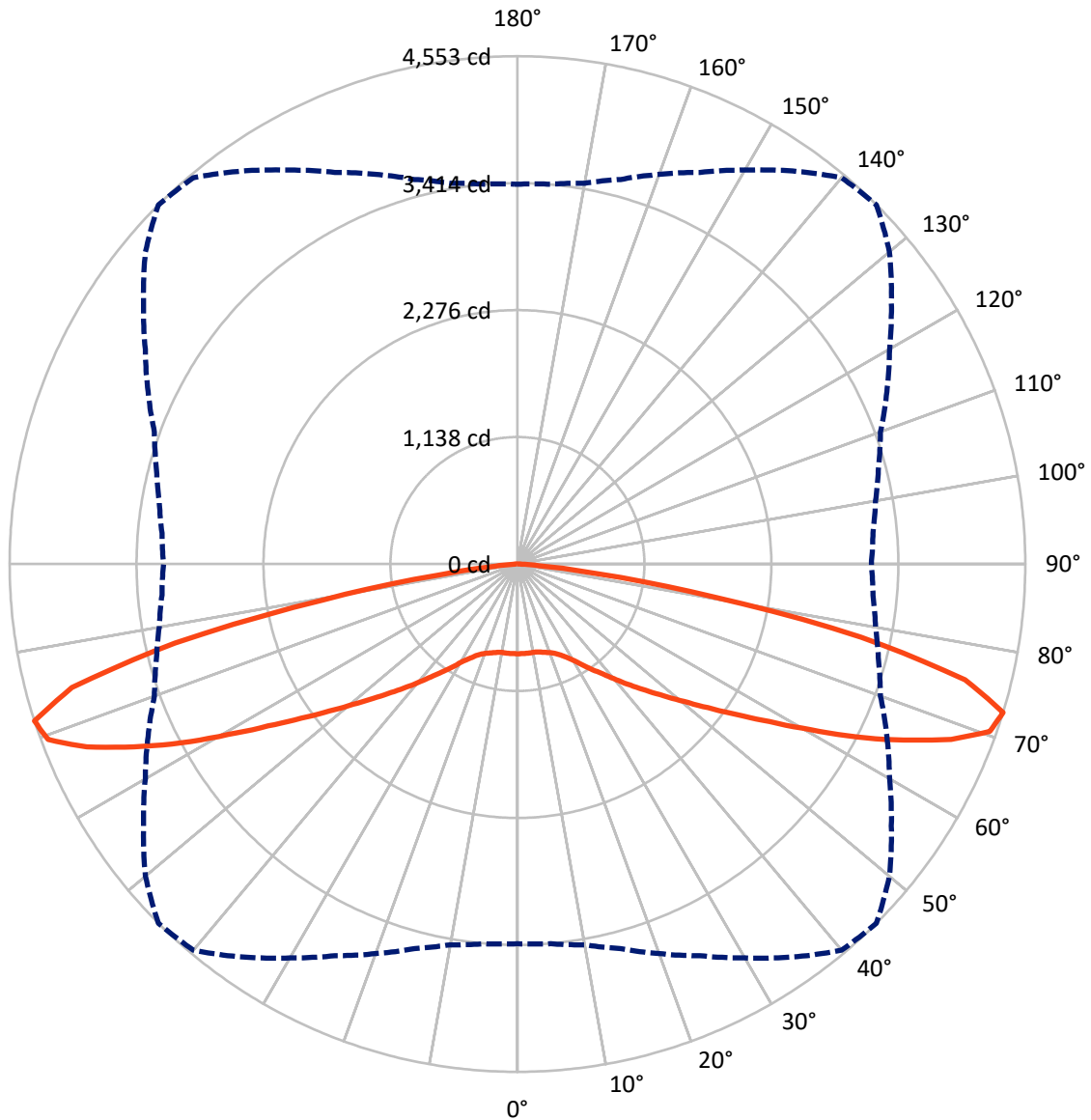


Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P270197

CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P270197

CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5684.2	0.0	5684.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5684.2	0.0	5684.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	11368.5	0.0	11368.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	0.7
10°-20°	233.5	2.1
20°-30°	426.7	3.8
30°-40°	735.6	6.5
40°-50°	1257.6	11.1
50°-60°	2038.3	17.9
60°-70°	3381.5	29.7
70°-80°	2978.3	26.2
80°-90°	240.1	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°	11368.5	100.0
0°-180°	11368.5	100.0



REPORT NUMBER: P270197

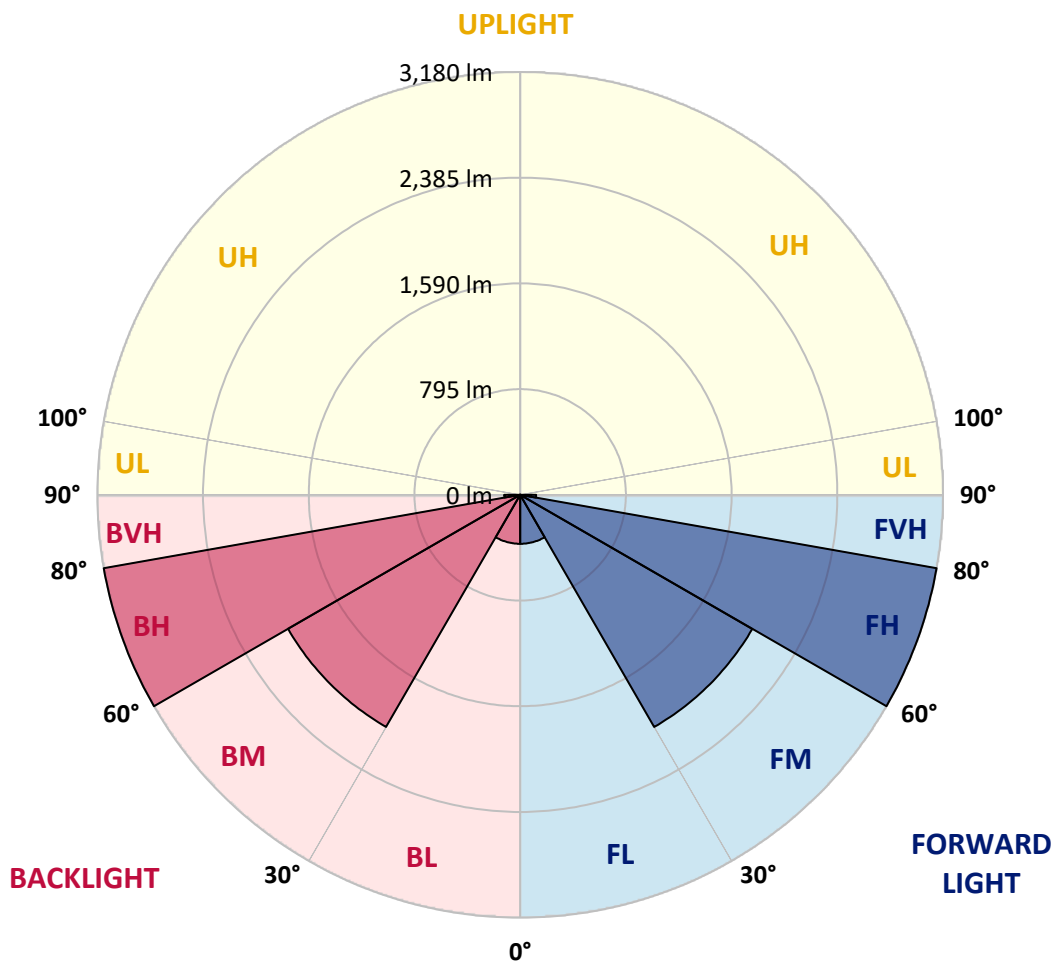
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	368.5	3.2			
FM	(30°-60°)	2015.8	17.7			
FH	(60°-80°)	3179.9	28.0			G2/5000
FVH	(80°-90°)	120.1	1.1			G2/225
BL	(0°-30°)	368.5	3.2	B1/500		
BM	(30°-60°)	2015.8	17.7	B2/2500		
BH	(60°-80°)	3179.9	28.0	B4/5000		G2/5000
BVH	(80°-90°)	120.1	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: P270197

CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2
2.5°	805.2	805.6	806.0	805.6	805.6	805.2	804.5	805.2	804.5	803.5	804.1
5°	807.7	808.7	808.7	807.7	808.1	807.7	806.7	807.1	806.0	804.5	804.5
7.5°	810.8	811.3	811.3	810.4	810.8	809.7	808.7	808.1	807.1	805.2	803.5
10°	815.5	816.0	815.5	814.5	814.5	812.8	810.4	809.3	807.1	804.1	802.5
12.5°	820.7	821.2	820.7	819.7	819.2	816.5	814.5	812.8	811.3	808.7	806.0
15°	828.0	829.0	828.0	825.9	824.4	822.3	821.2	821.8	822.3	820.2	817.5
17.5°	841.5	842.2	840.5	835.9	833.7	831.7	831.7	832.6	834.3	833.2	830.7
20°	866.5	865.1	861.4	855.6	853.0	849.3	848.9	849.3	849.3	848.9	846.8
22.5°	897.9	896.9	892.1	884.8	881.1	879.1	875.9	873.4	872.9	871.3	869.2
25°	935.5	934.9	929.1	922.9	920.4	917.7	915.2	911.4	908.2	904.7	902.5
27.5°	983.4	981.3	973.0	969.8	966.1	964.6	960.9	956.9	954.2	949.5	947.0
30°	1036.0	1036.0	1029.3	1028.2	1028.2	1024.5	1020.5	1013.1	1008.3	1003.8	1002.1
32.5°	1088.7	1089.3	1082.5	1084.6	1086.1	1088.7	1089.7	1087.2	1084.1	1083.4	1080.4
35°	1164.8	1162.8	1155.9	1157.6	1157.0	1156.5	1156.5	1162.2	1163.2	1164.4	1158.0
37.5°	1259.2	1259.2	1252.4	1252.4	1249.4	1246.2	1241.9	1245.7	1251.3	1253.0	1248.9
40°	1367.1	1370.9	1362.5	1361.9	1363.0	1353.0	1348.4	1354.1	1357.8	1364.0	1359.3
42.5°	1494.4	1491.7	1483.5	1482.5	1476.6	1473.5	1469.4	1474.1	1479.8	1483.9	1485.4
45°	1616.4	1614.3	1604.9	1604.9	1599.3	1596.6	1598.7	1606.4	1609.1	1614.9	1620.5
47.5°	1736.9	1734.3	1728.0	1730.6	1731.2	1735.7	1742.6	1749.9	1757.2	1765.0	1767.7
50°	1859.9	1860.4	1853.7	1859.9	1867.8	1880.7	1898.9	1911.0	1926.1	1935.9	1939.1
52.5°	1972.0	1974.0	1981.4	1995.9	2011.7	2037.1	2068.4	2097.6	2122.7	2139.4	2138.3
55°	2106.5	2109.7	2127.4	2152.3	2177.9	2216.6	2262.9	2314.6	2356.3	2380.2	2365.1
57.5°	2278.6	2285.4	2305.2	2339.0	2377.2	2427.2	2490.8	2568.6	2633.1	2665.5	2640.9
60°	2514.7	2518.9	2542.9	2580.6	2626.4	2688.4	2773.3	2877.7	2969.0	3011.7	2983.5
62.5°	2826.1	2834.0	2853.1	2891.3	2938.1	3008.6	3112.4	3242.7	3356.3	3415.7	3352.1
65°	3197.8	3222.8	3239.1	3277.6	3321.5	3396.0	3504.5	3644.2	3766.1	3805.3	3731.7
67.5°	3565.9	3587.9	3615.9	3660.4	3704.7	3788.6	3889.2	4024.9	4158.9	4194.2	4080.1
70°	3727.1	3739.6	3783.4	3843.8	3928.8	4027.9	4144.2	4296.5	4462.3	4491.4	4346.4
72.5°	3404.3	3416.9	3465.8	3568.5	3716.6	3874.1	4077.0	4300.6	4519.6	4552.5	4352.7
75°	2574.7	2554.4	2627.0	2762.9	2962.7	3182.2	3465.8	3786.5	4103.0	4144.2	3905.9
77.5°	1330.7	1328.1	1382.9	1551.7	1790.1	2039.8	2352.1	2714.5	3024.2	3149.4	2955.3
80°	375.0	379.1	405.1	489.0	628.4	808.7	1052.8	1392.2	1645.5	1775.0	1666.4
82.5°	147.1	158.6	168.4	184.1	202.3	228.9	305.6	454.7	610.0	729.0	597.1
85°	52.7	56.4	79.8	94.4	95.9	101.1	115.3	134.6	162.1	193.4	159.0
87.5°	19.9	21.9	25.5	42.2	41.7	38.1	46.4	48.5	36.6	33.3	41.2
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: P270197

CATALOG NUMBER: GWC-AF-02-LED-E1-5WQ-7027

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2
2.5°	802.9	803.5	803.5	804.1	804.5	804.5	805.6	805.6
5°	803.5	803.5	802.5	802.9	802.5	802.5	802.9	802.9
7.5°	802.5	801.9	800.8	800.4	799.3	799.3	799.3	799.3
10°	800.8	800.4	799.3	798.9	798.4	798.4	798.4	798.4
12.5°	805.2	803.5	802.5	801.9	801.9	801.9	801.9	801.9
15°	816.0	812.3	809.7	809.7	810.4	811.3	811.3	812.3
17.5°	829.6	825.5	822.8	820.7	821.8	823.3	824.4	825.5
20°	845.8	843.7	840.0	837.8	837.8	840.0	841.1	841.5
22.5°	868.1	866.5	865.1	862.5	862.5	863.5	865.5	865.5
25°	901.4	900.6	899.5	897.3	896.9	896.9	897.9	898.9
27.5°	943.2	943.8	942.7	942.2	940.6	940.2	941.7	941.2
30°	999.0	1001.6	1004.2	1002.1	999.5	997.9	996.4	994.3
32.5°	1074.6	1071.5	1069.4	1065.7	1061.1	1056.9	1053.8	1050.1
35°	1146.1	1140.8	1138.8	1141.8	1141.3	1138.8	1135.1	1132.0
37.5°	1233.6	1232.7	1233.6	1239.4	1238.4	1241.0	1233.6	1233.2
40°	1344.3	1345.2	1352.6	1359.3	1363.0	1366.6	1362.5	1358.2
42.5°	1472.5	1472.0	1474.6	1483.9	1490.2	1494.4	1485.4	1484.4
45°	1608.1	1604.5	1606.4	1614.3	1620.5	1625.3	1615.3	1615.3
47.5°	1757.2	1750.9	1744.1	1753.0	1756.6	1759.8	1752.0	1749.4
50°	1923.5	1910.4	1895.9	1899.6	1899.6	1898.5	1888.5	1888.1
52.5°	2114.3	2090.4	2063.8	2053.9	2048.1	2041.8	2024.7	2016.3
55°	2333.8	2297.9	2256.2	2230.6	2217.0	2199.9	2171.2	2163.4
57.5°	2590.4	2534.1	2462.2	2430.9	2400.6	2372.5	2340.7	2331.8
60°	2894.3	2811.4	2716.0	2658.2	2625.3	2598.2	2565.4	2563.9
62.5°	3233.3	3102.4	2994.5	2942.4	2918.4	2894.3	2863.1	2867.3
65°	3577.9	3441.3	3340.2	3297.9	3275.5	3255.7	3224.5	3229.1
67.5°	3917.9	3792.3	3681.3	3638.0	3613.0	3587.9	3559.8	3564.5
70°	4161.9	4006.0	3880.9	3785.0	3725.0	3657.2	3613.4	3602.5
72.5°	4092.0	3851.8	3653.0	3462.7	3351.1	3260.4	3198.9	3172.3
75°	3541.5	3213.0	2957.5	2723.9	2592.5	2485.6	2407.8	2359.4
77.5°	2630.0	2260.9	1958.9	1689.9	1477.2	1334.3	1233.6	1168.4
80°	1439.7	1094.9	800.4	562.6	413.5	343.6	303.4	284.1
82.5°	448.4	289.3	213.3	184.1	171.0	163.8	151.8	132.4
85°	142.9	125.1	116.3	111.1	105.8	92.3	63.6	57.9
87.5°	55.2	56.9	56.4	53.2	54.3	39.0	31.4	27.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)