

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: P200100

Luminaire Tested: **GWC-AF-02-LED-E1-RW-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200100  
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-600  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8558 lumens  
Efficiency: N/A  
Efficacy: 129.7 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

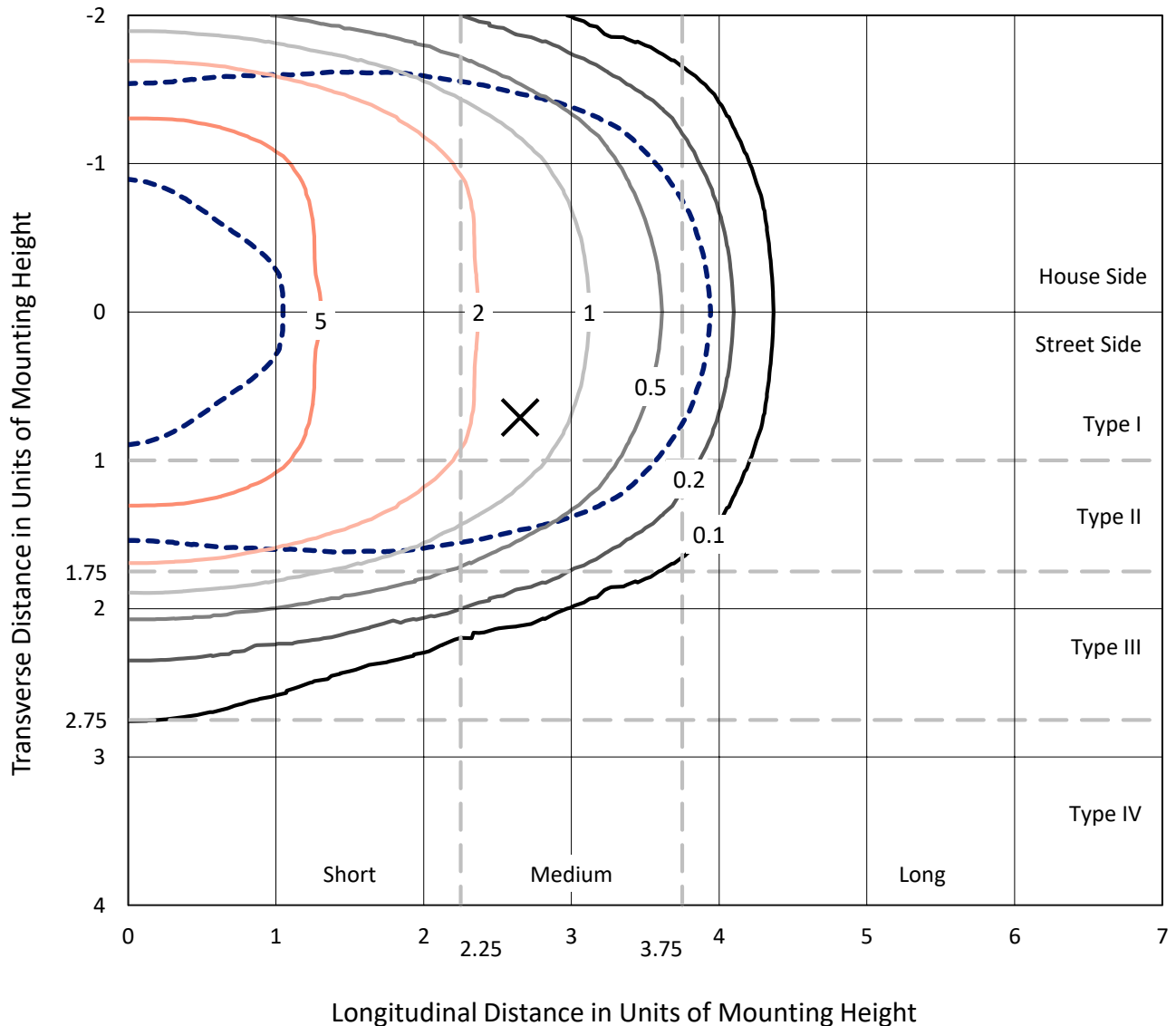
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

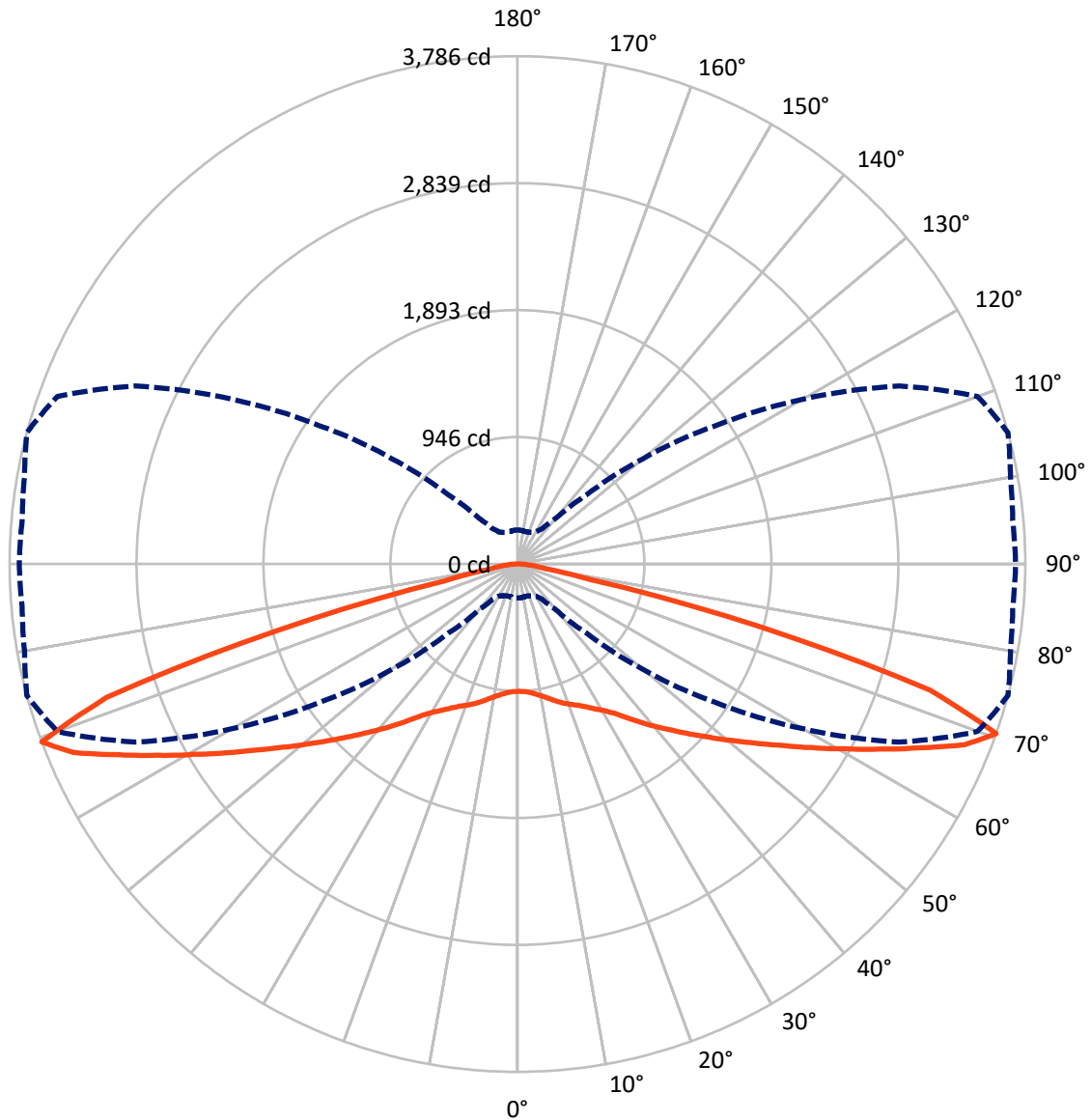
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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
<b>House Side</b>	Lumens	4279.0	0.0	4279.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4279.0	0.0	4279.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8558.0	0.0	8558.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.0	1.1
10°-20°	282.9	3.3
20°-30°	532.4	6.2
30°-40°	942.8	11.0
40°-50°	1576.7	18.4
50°-60°	2197.2	25.7
60°-70°	2037.5	23.8
70°-80°	812.0	9.5
80°-90°	85.4	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°	8558.0	100.0
0°-180°	8558.0	100.0



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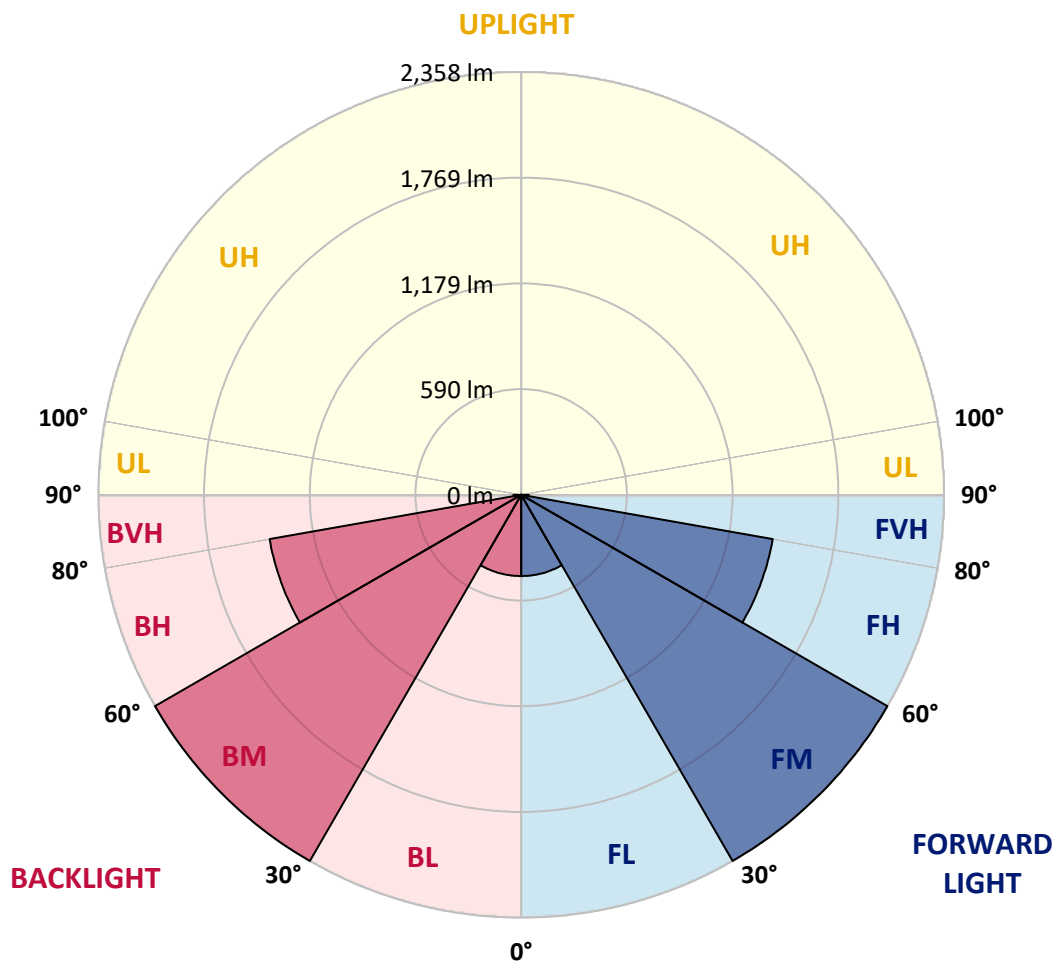
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.2	5.3			
FM	(30°-60°)	2358.4	27.6			
FH	(60°-80°)	1424.8	16.6			G1/1800
FVH	(80°-90°)	42.7	0.5			G1/100
BL	(0°-30°)	453.2	5.3	B1/500		
BM	(30°-60°)	2358.4	27.6	B2/2500		
BH	(60°-80°)	1424.8	16.6	B3/2500		G3/2500
BVH	(80°-90°)	42.7	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°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3
2.5°	947.7	946.8	947.7	947.3	948.1	948.1	948.9	950.5	950.5	951.8	951.3
5°	938.4	937.9	939.2	940.4	941.6	944.0	946.4	950.1	952.9	954.9	957.0
7.5°	920.1	920.1	921.8	924.6	927.4	932.7	938.4	945.6	952.9	959.0	964.2
10°	905.2	906.0	908.1	912.9	917.7	925.9	933.5	944.0	954.1	964.2	972.3
12.5°	896.3	897.5	901.1	908.4	916.6	927.4	939.2	952.5	963.8	976.0	984.1
15°	899.2	899.9	905.2	914.1	924.6	938.4	954.1	969.9	983.3	996.1	1007.1
17.5°	914.9	916.2	922.2	932.3	943.3	959.4	976.4	994.2	1010.8	1025.3	1038.7
20°	943.3	944.4	952.2	963.0	976.0	992.6	1009.6	1028.2	1046.8	1062.1	1077.1
22.5°	983.3	985.3	992.6	1003.5	1018.0	1035.8	1056.1	1075.8	1093.6	1107.9	1121.2
25°	1035.8	1040.2	1047.2	1059.3	1074.7	1090.9	1112.7	1132.9	1149.9	1163.2	1172.9
27.5°	1110.3	1116.3	1121.6	1133.3	1148.3	1163.6	1185.5	1203.3	1219.5	1232.5	1239.7
30°	1208.9	1215.1	1220.3	1231.6	1245.3	1259.9	1280.5	1296.3	1306.4	1316.5	1316.1
32.5°	1328.7	1335.2	1337.2	1349.3	1363.5	1379.2	1397.9	1406.8	1414.8	1416.1	1408.7
35°	1462.5	1465.8	1473.9	1490.0	1506.2	1519.2	1537.0	1541.4	1541.4	1535.3	1519.2
37.5°	1609.4	1611.4	1622.7	1640.9	1657.5	1670.9	1683.0	1691.9	1687.5	1674.5	1647.4
40°	1770.3	1774.0	1790.2	1806.3	1824.9	1837.5	1850.4	1852.1	1847.6	1828.6	1791.8
42.5°	1924.1	1927.2	1943.5	1969.0	1993.2	2010.6	2022.8	2025.1	2011.0	1993.6	1947.9
45°	2056.3	2064.8	2085.8	2115.8	2151.0	2175.6	2192.2	2199.0	2186.6	2163.8	2110.9
47.5°	2161.1	2169.6	2199.4	2235.0	2278.7	2318.8	2346.3	2360.9	2357.6	2340.6	2282.8
50°	2237.9	2246.0	2278.3	2322.0	2373.0	2422.8	2469.7	2504.5	2516.6	2508.9	2455.9
52.5°	2246.8	2260.1	2298.2	2356.8	2423.2	2491.1	2557.9	2616.9	2656.9	2663.0	2623.8
55°	2122.6	2136.0	2188.6	2275.6	2374.2	2485.1	2591.9	2691.3	2770.2	2810.7	2790.0
57.5°	1829.9	1853.7	1909.0	2011.0	2156.2	2322.0	2492.3	2669.1	2829.7	2936.8	2957.5
60°	1402.3	1430.6	1486.4	1594.8	1756.6	1954.3	2181.6	2443.0	2726.5	2967.6	3111.5
62.5°	899.6	926.2	984.9	1079.1	1211.0	1425.4	1669.3	1979.4	2360.5	2741.1	3084.1
65°	462.3	476.9	507.6	564.7	667.4	827.6	1046.4	1355.8	1791.4	2260.9	2756.9
67.5°	292.9	295.6	302.6	310.7	337.0	392.3	494.3	687.2	1045.6	1535.3	2115.8
70°	253.2	253.2	250.0	248.8	252.0	259.6	275.5	320.4	441.3	728.9	1220.3
72.5°	231.8	229.3	223.7	219.2	218.4	218.4	221.7	228.5	248.0	296.9	477.7
75°	213.6	206.6	199.0	193.7	191.7	189.7	189.2	190.5	194.6	202.2	228.1
77.5°	191.3	182.4	173.5	168.3	165.8	163.0	160.6	157.7	155.7	158.1	169.5
80°	164.6	154.5	147.6	144.4	142.0	137.9	132.7	127.8	123.4	122.5	129.4
82.5°	132.7	120.9	121.3	122.5	118.2	112.4	106.8	101.5	93.8	89.8	93.8
85°	107.2	101.1	98.3	106.0	99.5	91.0	82.1	72.8	60.7	50.9	55.4
87.5°	41.6	41.6	62.3	95.9	86.1	70.4	60.3	51.4	31.9	24.7	25.1
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°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3
2.5°	950.9	951.8	951.3	950.9	950.9	950.5	950.9	950.9
5°	958.2	960.2	960.2	961.1	961.1	961.4	961.8	961.4
7.5°	969.1	972.7	975.2	978.0	978.5	978.8	979.6	978.8
10°	980.0	987.4	992.6	997.8	1000.2	1001.1	1001.9	1001.9
12.5°	993.8	1003.9	1013.2	1022.5	1026.9	1029.4	1029.4	1031.0
15°	1016.4	1026.5	1037.5	1050.0	1057.6	1061.7	1062.9	1062.9
17.5°	1048.4	1057.3	1066.5	1078.7	1088.4	1093.6	1094.9	1094.5
20°	1085.6	1094.0	1099.4	1107.0	1115.5	1121.6	1123.2	1123.2
22.5°	1128.0	1132.9	1133.7	1136.2	1143.0	1151.1	1154.7	1155.5
25°	1175.0	1176.2	1172.9	1172.9	1177.4	1185.1	1188.8	1189.2
27.5°	1235.6	1229.6	1221.5	1218.6	1221.5	1230.4	1234.8	1236.4
30°	1311.3	1296.7	1278.1	1268.0	1266.4	1278.1	1286.2	1287.4
32.5°	1397.9	1376.8	1352.1	1331.5	1326.3	1333.5	1343.2	1342.8
35°	1500.6	1475.5	1445.5	1419.2	1407.2	1414.4	1428.1	1429.8
37.5°	1619.1	1586.3	1551.9	1518.8	1499.7	1501.8	1516.3	1521.2
40°	1751.3	1708.8	1665.6	1621.1	1594.0	1588.7	1606.5	1609.4
42.5°	1892.9	1838.3	1783.7	1728.7	1693.9	1685.8	1706.5	1705.3
45°	2043.8	1974.2	1910.3	1849.6	1808.4	1796.2	1813.2	1813.2
47.5°	2206.0	2120.2	2044.2	1975.4	1930.5	1913.1	1929.3	1930.5
50°	2377.8	2286.8	2197.5	2121.0	2067.2	2045.0	2066.1	2069.2
52.5°	2549.0	2460.4	2370.2	2282.8	2217.7	2190.5	2214.9	2225.3
55°	2722.5	2635.5	2549.4	2464.0	2386.7	2354.8	2380.7	2394.0
57.5°	2905.7	2825.2	2743.0	2656.9	2582.5	2532.7	2560.2	2578.0
60°	3120.4	3051.7	2966.4	2871.3	2796.0	2745.5	2761.3	2777.1
62.5°	3290.3	3317.0	3244.6	3134.6	3038.0	2973.2	2988.6	3005.2
65°	3208.2	3482.0	3546.4	3435.2	3301.3	3200.5	3194.1	3202.6
67.5°	2681.6	3213.5	3601.4	3707.4	3595.3	3455.3	3429.4	3442.0
70°	1793.8	2456.3	3140.7	3650.3	3785.8	3731.6	3706.2	3713.8
72.5°	861.5	1430.6	2130.7	2808.2	3220.8	3410.0	3470.8	3500.2
75°	315.1	567.8	1026.9	1547.5	1868.2	2162.7	2354.8	2433.3
77.5°	190.1	229.3	328.1	493.9	559.3	626.1	600.3	613.2
80°	140.8	159.0	179.9	202.2	209.5	209.5	201.4	195.0
82.5°	98.7	110.4	120.5	132.7	136.0	129.8	106.8	84.9
85°	63.5	68.7	73.2	80.9	78.9	75.2	50.5	44.9
87.5°	29.2	33.1	34.8	38.5	36.8	35.2	25.1	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)