

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: P199908

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7030-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8166.1 lumens
Efficiency: N/A
Efficacy: 123.7 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 - G1

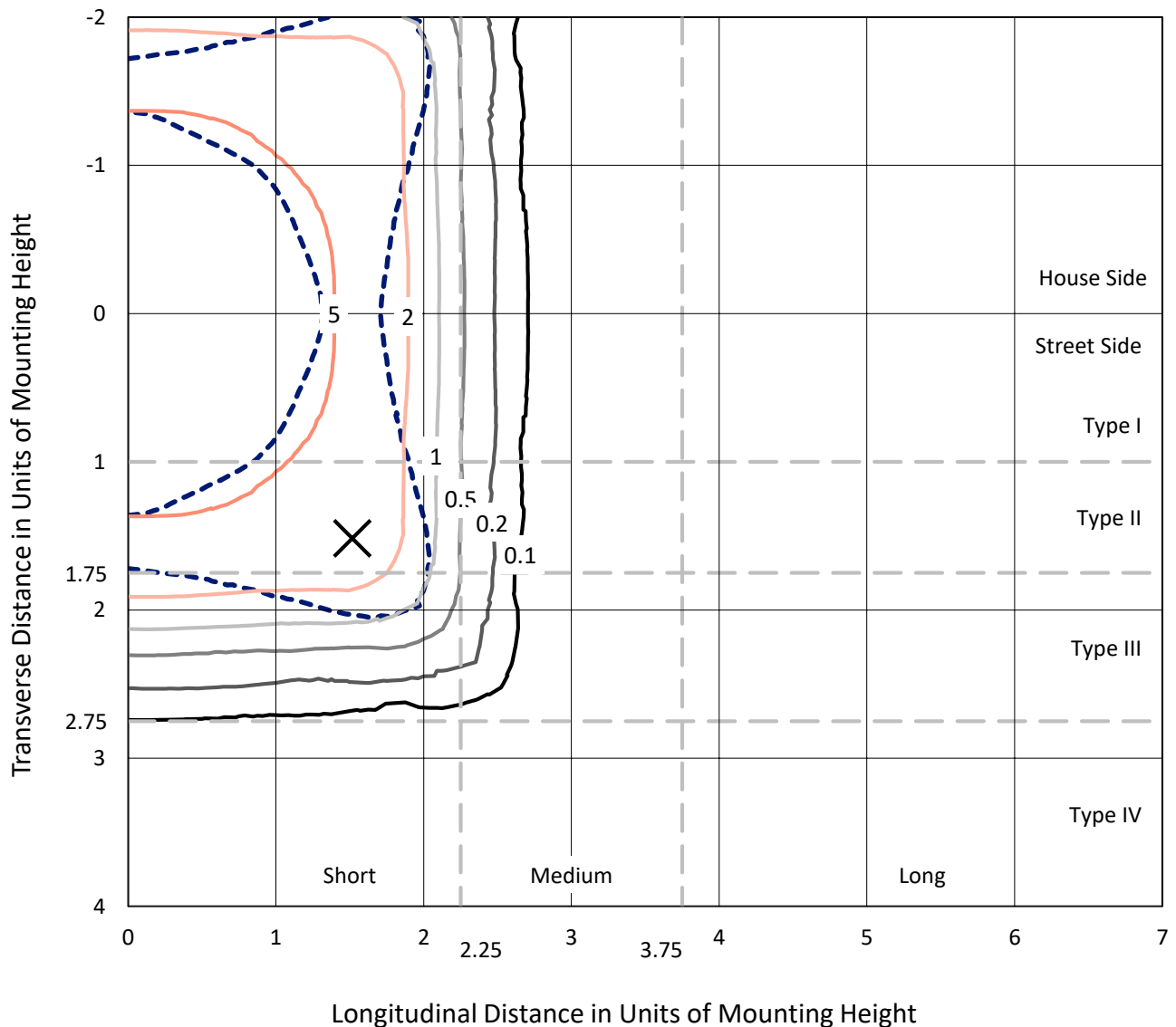
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

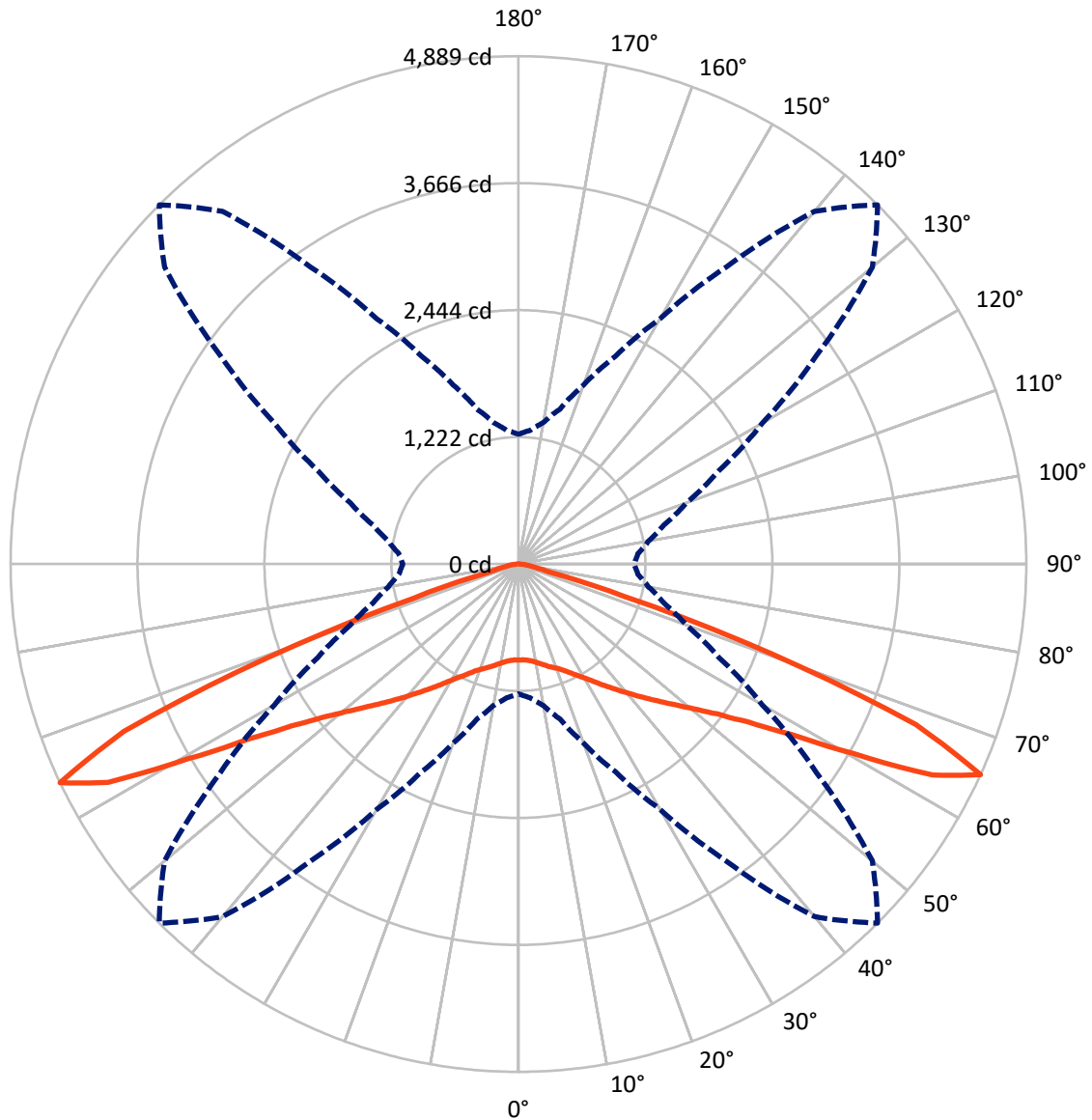
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4083.0	0.0	4083.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4083.0	0.0	4083.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8166.1	0.0	8166.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	1.1
10°-20°	288.8	3.5
20°-30°	540.1	6.6
30°-40°	913.4	11.2
40°-50°	1493.5	18.3
50°-60°	2374.9	29.1
60°-70°	2146.8	26.3
70°-80°	271.7	3.3
80°-90°	46.7	0.6
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°	8166.1	100.0
0°-180°	8166.1	100.0



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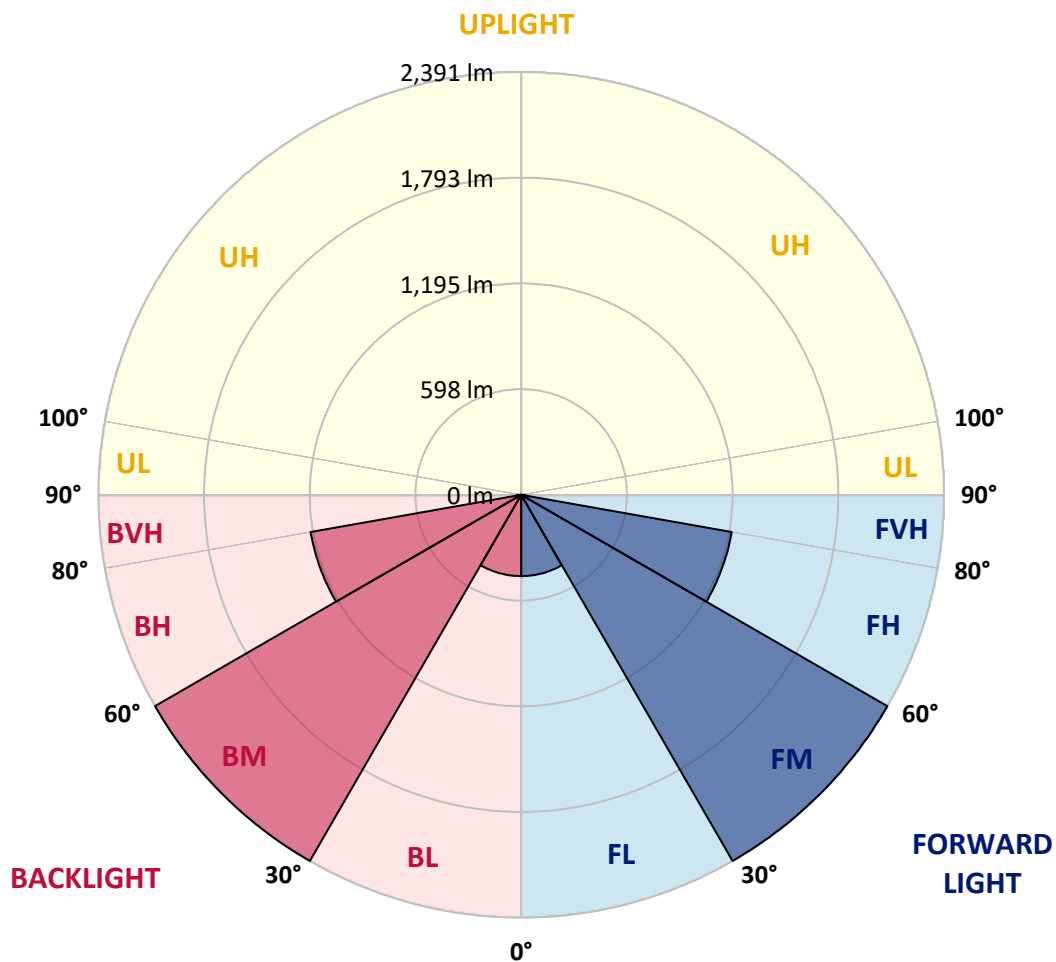
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	459.5	5.6			
FM	(30°-60°)	2390.9	29.3			
FH	(60°-80°)	1209.2	14.8			G1/1800
FVH	(80°-90°)	23.4	0.3			G1/100
BL	(0°-30°)	459.5	5.6	B1/500		
BM	(30°-60°)	2390.9	29.3	B2/2500		
BH	(60°-80°)	1209.2	14.8	B3/2500		G1/1800
BVH	(80°-90°)	23.4	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0
2.5°	924.8	925.5	926.3	925.5	926.3	925.1	924.4	925.5	924.4	923.2	924.0
5°	932.7	933.2	933.2	932.0	933.2	932.4	931.2	932.7	931.7	930.5	931.2
7.5°	946.1	947.8	946.5	945.4	946.1	945.4	944.6	945.0	944.6	943.5	943.9
10°	964.1	965.3	964.5	964.1	964.9	964.5	963.7	963.3	963.7	962.6	962.6
12.5°	985.9	985.5	985.2	985.5	986.7	986.7	986.3	986.7	987.4	987.8	987.0
15°	1007.4	1008.1	1008.1	1008.1	1010.4	1012.3	1013.5	1014.3	1015.8	1016.1	1014.6
17.5°	1034.1	1034.1	1033.7	1034.1	1036.5	1039.5	1040.5	1042.2	1043.7	1044.8	1042.9
20°	1063.9	1064.7	1064.7	1065.5	1068.5	1072.1	1072.1	1072.8	1072.1	1072.8	1071.7
22.5°	1100.4	1102.7	1102.7	1103.0	1106.0	1110.3	1109.1	1110.3	1108.3	1109.8	1108.3
25°	1147.8	1151.1	1150.4	1150.4	1152.6	1155.4	1155.8	1158.0	1157.7	1159.6	1158.4
27.5°	1201.3	1206.7	1208.2	1207.8	1209.3	1212.0	1212.8	1215.4	1213.9	1215.4	1214.6
30°	1265.5	1267.9	1270.9	1272.0	1274.0	1276.5	1276.5	1277.0	1275.0	1277.4	1278.6
32.5°	1332.1	1336.2	1339.3	1346.2	1349.7	1351.5	1351.2	1352.0	1350.0	1353.0	1355.4
35°	1420.1	1423.1	1428.0	1433.4	1438.0	1437.7	1436.4	1436.9	1436.9	1439.5	1441.7
37.5°	1526.0	1526.7	1533.2	1540.9	1543.2	1540.9	1534.0	1532.5	1529.0	1532.5	1536.3
40°	1638.1	1640.7	1653.7	1658.7	1659.8	1655.6	1645.7	1640.0	1632.4	1636.4	1641.8
42.5°	1755.5	1760.8	1772.6	1781.5	1785.3	1782.6	1768.8	1760.0	1750.2	1752.4	1757.8
45°	1885.5	1892.0	1908.8	1917.2	1924.5	1920.2	1906.9	1893.5	1877.8	1878.9	1887.4
47.5°	2030.8	2037.2	2059.1	2073.2	2077.0	2076.3	2061.4	2043.0	2021.7	2020.9	2028.1
50°	2193.7	2200.3	2227.4	2249.2	2260.2	2259.2	2241.6	2215.6	2189.5	2189.9	2199.1
52.5°	2352.8	2360.9	2389.2	2426.6	2448.4	2464.2	2453.4	2429.0	2397.1	2397.9	2406.3
55°	2501.9	2515.3	2547.8	2598.7	2639.2	2683.3	2695.9	2695.1	2676.0	2681.3	2689.8
57.5°	2574.2	2594.2	2644.2	2724.6	2807.2	2896.7	2972.4	3029.0	3053.0	3089.5	3081.0
60°	2437.3	2469.0	2542.9	2661.1	2824.4	3010.9	3211.0	3406.4	3573.3	3699.0	3626.8
62.5°	1995.6	2036.9	2126.4	2277.8	2524.9	2823.6	3206.4	3668.4	4171.7	4475.4	4258.6
65°	1248.8	1291.6	1382.5	1544.7	1833.8	2205.2	2724.6	3490.2	4430.7	4888.5	4447.1
67.5°	486.9	510.1	559.5	663.2	880.4	1210.8	1732.1	2601.0	3725.8	4126.9	3656.6
70°	243.9	246.3	255.4	274.6	321.2	417.3	634.9	1205.9	2136.8	2580.7	2059.9
72.5°	176.4	176.7	181.3	189.7	204.7	226.0	267.3	369.1	694.9	1062.1	651.3
75°	135.1	136.6	139.2	143.7	151.9	162.6	177.4	212.6	263.6	305.6	257.0
77.5°	104.1	107.1	109.0	113.2	118.2	125.4	129.7	143.0	166.4	175.2	172.5
80°	79.2	81.8	86.1	89.5	93.0	96.3	94.8	100.9	113.2	120.5	116.7
82.5°	50.5	53.5	65.8	68.9	70.4	72.6	70.0	70.4	75.7	80.3	75.7
85°	32.6	34.4	41.7	45.6	45.9	47.4	46.3	43.6	43.6	39.8	44.8
87.5°	15.0	15.3	18.8	22.2	23.0	20.6	20.3	19.5	15.8	15.0	16.1
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°	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0
2.5°	923.6	924.4	924.8	925.9	926.3	926.3	926.6	927.4
5°	930.9	932.0	932.4	933.9	934.2	933.9	934.7	935.0
7.5°	943.9	945.7	946.5	948.1	947.0	948.5	948.8	948.8
10°	963.0	964.9	965.3	966.8	966.1	966.8	966.8	966.1
12.5°	988.2	988.6	987.4	988.6	987.0	987.8	986.7	985.9
15°	1016.1	1015.0	1012.3	1012.3	1010.0	1010.4	1010.0	1009.7
17.5°	1043.3	1041.0	1039.0	1038.3	1036.5	1036.0	1034.9	1034.9
20°	1073.2	1072.1	1070.8	1069.3	1067.5	1065.5	1065.2	1066.0
22.5°	1109.1	1108.8	1108.8	1108.0	1105.2	1103.4	1102.2	1102.2
25°	1157.3	1153.9	1153.9	1153.4	1152.3	1151.1	1148.9	1150.1
27.5°	1211.5	1209.7	1211.2	1210.8	1209.7	1209.7	1208.2	1208.2
30°	1278.6	1277.8	1280.1	1278.2	1274.3	1274.0	1272.5	1270.4
32.5°	1355.8	1355.1	1358.4	1356.1	1350.0	1346.6	1343.6	1342.0
35°	1441.7	1442.2	1446.4	1444.9	1438.0	1435.6	1430.3	1429.5
37.5°	1535.8	1541.9	1549.3	1550.8	1545.0	1543.5	1537.9	1534.8
40°	1646.4	1654.5	1665.5	1668.3	1662.2	1661.0	1653.0	1648.7
42.5°	1764.2	1777.9	1791.8	1794.0	1787.9	1781.8	1774.2	1771.1
45°	1895.7	1912.2	1930.2	1934.8	1925.5	1918.4	1908.4	1908.4
47.5°	2043.3	2064.0	2084.3	2096.9	2088.5	2080.9	2069.1	2061.4
50°	2217.9	2246.2	2272.5	2285.4	2272.1	2257.7	2237.0	2230.1
52.5°	2436.6	2467.2	2490.1	2483.3	2462.6	2442.3	2419.8	2410.6
55°	2715.7	2726.1	2726.1	2700.2	2658.9	2624.7	2589.1	2577.3
57.5°	3064.9	3025.2	2963.9	2886.3	2788.9	2703.9	2646.5	2619.4
60°	3475.3	3284.2	3068.0	2855.7	2681.3	2537.5	2452.3	2413.2
62.5°	3748.8	3248.5	2815.6	2474.8	2224.0	2050.7	1932.9	1887.0
65°	3503.6	2709.3	2129.5	1721.8	1448.3	1272.0	1155.4	1112.6
67.5°	2566.2	1697.7	1134.0	812.7	595.5	474.9	427.2	407.3
70°	1151.9	597.7	366.3	286.0	246.7	226.3	217.7	214.5
72.5°	347.2	251.3	211.9	191.2	175.6	165.6	158.3	157.6
75°	209.6	174.4	154.9	142.7	132.8	124.7	120.8	119.7
77.5°	146.5	128.2	119.0	110.2	102.4	96.3	93.0	90.2
80°	102.9	94.1	89.9	84.9	80.0	74.2	69.3	66.9
82.5°	68.9	66.9	66.9	63.9	59.6	54.3	44.4	42.1
85°	44.4	44.0	44.8	43.6	40.5	34.9	28.7	27.2
87.5°	20.6	21.1	23.4	23.0	22.2	18.3	14.5	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)