

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: P299942

Luminaire Tested: **GLNA-AF-02-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299942
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: GLNA-AF-02-LED-E1-5WQ-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8145.3 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

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

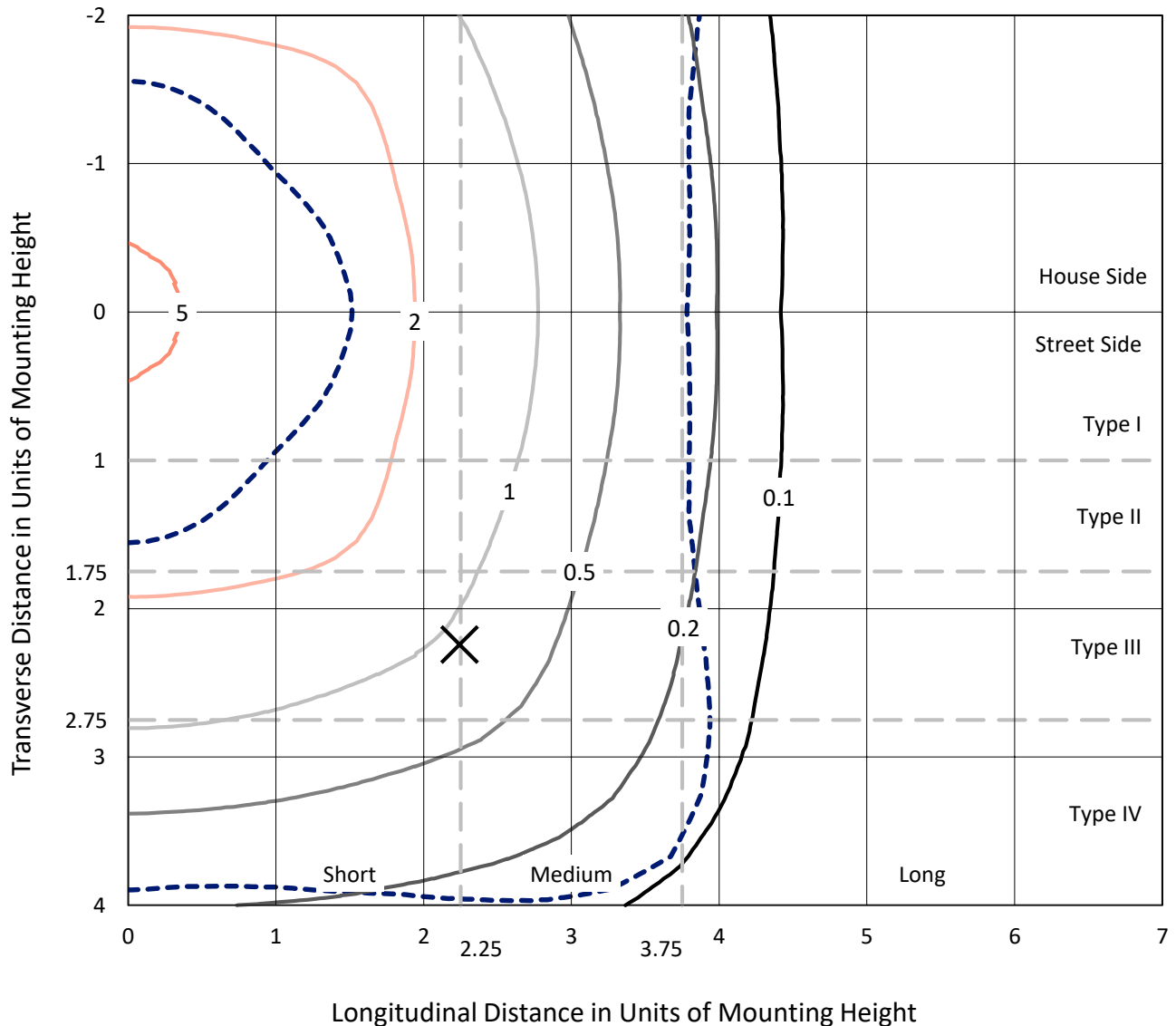


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

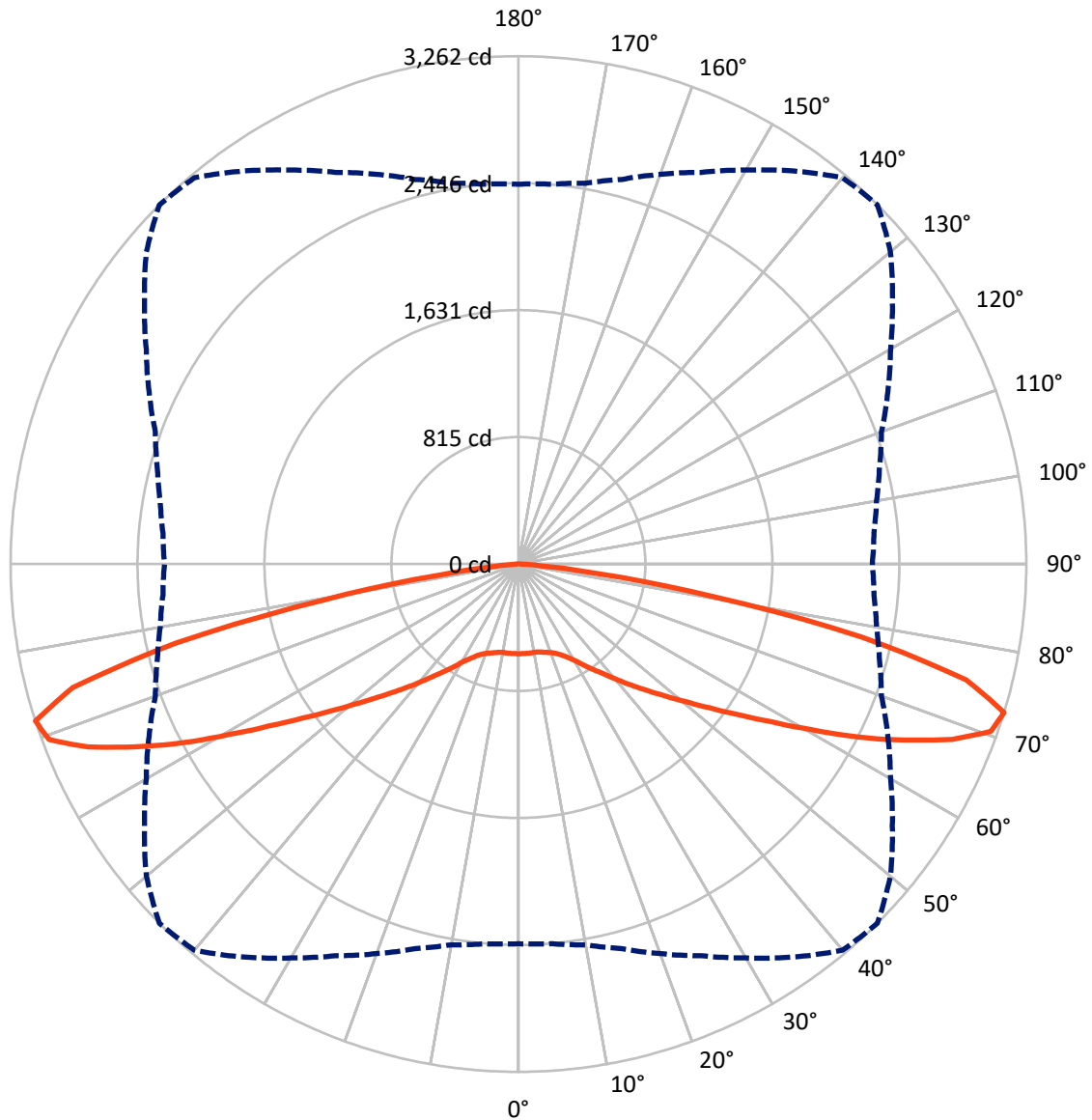


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4072.7	0.0	4072.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4072.7	0.0	4072.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8145.3	0.0	8145.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	0.7
10°-20°	167.3	2.1
20°-30°	305.7	3.8
30°-40°	527.1	6.5
40°-50°	901.0	11.1
50°-60°	1460.4	17.9
60°-70°	2422.8	29.7
70°-80°	2133.9	26.2
80°-90°	172.1	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°	8145.3	100.0
0°-180°	8145.3	100.0



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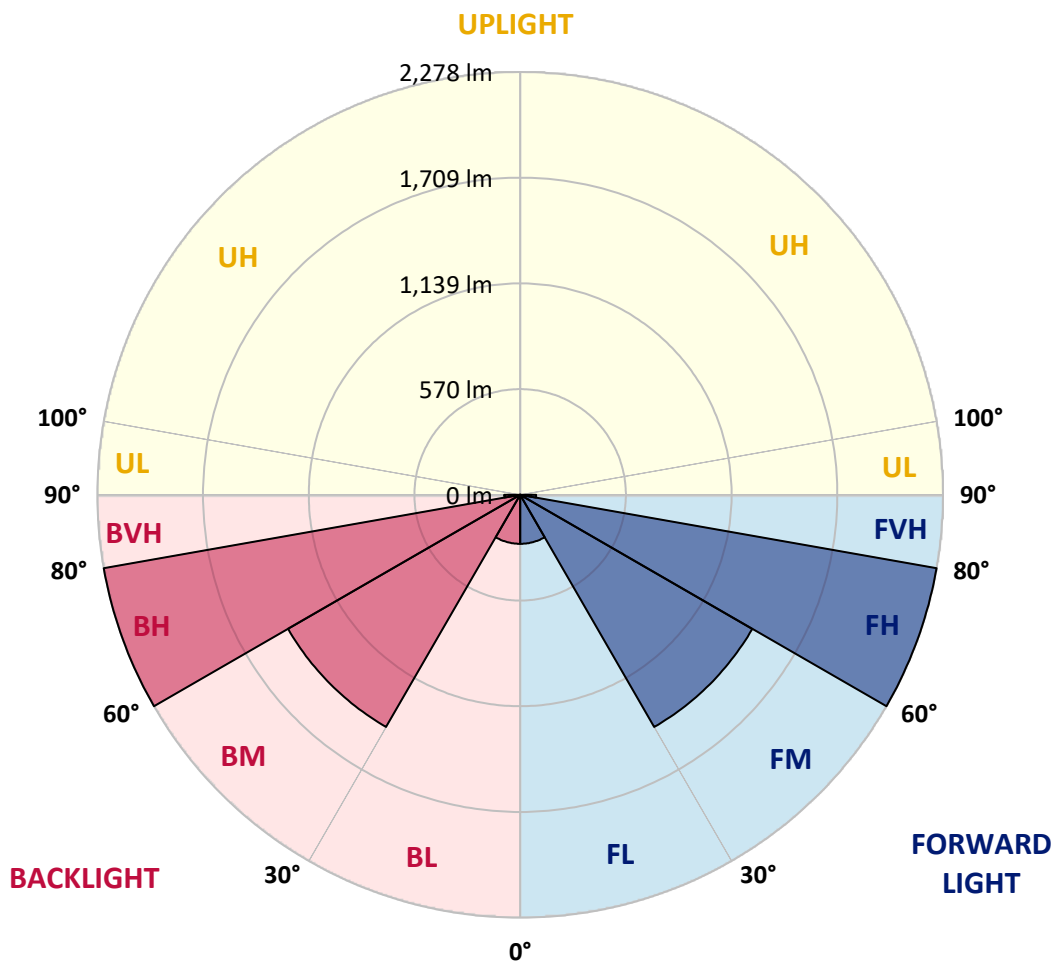
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.0	3.2			
FM (30°-60°)	1444.3	17.7			
FH (60°-80°)	2278.4	28.0			G2/5000
FVH (80°-90°)	86.0	1.1			G1/100
BL (0°-30°)	264.0	3.2	B1/500		
BM (30°-60°)	1444.3	17.7	B2/2500		
BH (60°-80°)	2278.4	28.0	B3/2500		G2/5000
BVH (80°-90°)	86.0	1.1			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8
2.5°	576.8	577.2	577.6	577.2	577.2	576.8	576.4	576.8	576.4	575.7	576.1
5°	578.7	579.4	579.4	578.7	579.1	578.7	577.9	578.3	577.6	576.4	576.4
7.5°	580.9	581.3	581.3	580.6	580.9	580.2	579.4	579.1	578.3	576.8	575.7
10°	584.3	584.7	584.3	583.5	583.5	582.4	580.6	579.8	578.3	576.1	574.9
12.5°	588.0	588.4	588.0	587.3	586.9	585.0	583.5	582.4	581.3	579.4	577.6
15°	593.3	594.0	593.3	591.8	590.6	589.1	588.4	588.8	589.1	587.6	585.8
17.5°	603.0	603.3	602.2	598.9	597.4	595.9	595.9	596.6	597.7	597.0	595.1
20°	620.9	619.8	617.2	613.1	611.2	608.6	608.2	608.6	608.6	608.2	606.7
22.5°	643.3	642.6	639.2	634.0	631.4	629.9	627.6	625.8	625.4	624.3	622.8
25°	670.2	669.8	665.7	661.2	659.4	657.5	655.6	653.0	650.8	648.2	646.7
27.5°	704.6	703.1	697.1	694.9	692.3	691.1	688.5	685.5	683.7	680.3	678.4
30°	742.3	742.3	737.5	736.7	736.7	734.1	731.1	725.9	722.5	719.2	718.0
32.5°	780.0	780.4	775.6	777.1	778.2	780.0	780.8	778.9	776.7	776.3	774.1
35°	834.6	833.1	828.2	829.4	829.0	828.6	828.6	832.7	833.5	834.2	829.7
37.5°	902.2	902.2	897.4	897.4	895.1	892.9	889.9	892.5	896.6	897.7	894.7
40°	979.5	982.2	976.2	975.8	976.6	969.5	966.1	970.2	972.8	977.3	973.9
42.5°	1070.7	1068.8	1062.8	1062.1	1058.0	1055.8	1052.8	1056.1	1060.2	1063.2	1064.3
45°	1158.1	1156.6	1149.9	1149.9	1145.8	1143.9	1145.4	1151.0	1152.9	1157.0	1161.1
47.5°	1244.4	1242.5	1238.1	1239.9	1240.3	1243.7	1248.5	1253.8	1259.0	1264.6	1266.5
50°	1332.6	1333.0	1328.1	1332.6	1338.2	1347.5	1360.6	1369.2	1380.0	1387.1	1389.4
52.5°	1412.9	1414.4	1419.6	1430.1	1441.3	1459.6	1482.0	1502.9	1520.9	1532.8	1532.1
55°	1509.3	1511.5	1524.2	1542.2	1560.5	1588.1	1621.4	1658.3	1688.2	1705.4	1694.6
57.5°	1632.6	1637.4	1651.6	1675.9	1703.2	1739.0	1784.6	1840.3	1886.6	1909.8	1892.2
60°	1801.8	1804.8	1822.0	1848.9	1881.7	1926.2	1987.1	2061.8	2127.2	2157.8	2137.7
62.5°	2024.8	2030.4	2044.3	2071.5	2105.2	2155.6	2229.9	2323.3	2404.8	2447.4	2401.8
65°	2291.2	2309.1	2320.7	2348.4	2379.7	2433.2	2510.9	2611.0	2698.4	2726.4	2673.7
67.5°	2554.9	2570.6	2590.8	2622.6	2654.3	2714.5	2786.6	2883.7	2979.7	3005.1	2923.3
70°	2670.4	2679.4	2710.7	2754.1	2815.0	2885.9	2969.3	3078.3	3197.1	3218.1	3114.2
72.5°	2439.1	2448.1	2483.2	2556.8	2662.9	2775.7	2921.1	3081.3	3238.2	3261.8	3118.7
75°	1844.8	1830.2	1882.1	1979.6	2122.7	2280.0	2483.2	2713.0	2939.7	2969.3	2798.5
77.5°	953.4	951.5	990.7	1111.8	1282.5	1461.5	1685.2	1944.9	2166.8	2256.5	2117.5
80°	268.6	271.6	290.3	350.4	450.2	579.4	754.3	997.5	1179.0	1271.7	1194.0
82.5°	105.4	113.6	120.7	131.9	145.0	164.0	218.9	325.8	437.1	522.3	427.8
85°	37.7	40.3	57.2	67.6	68.7	72.5	82.6	96.4	116.2	138.6	113.9
87.5°	14.2	15.7	18.3	30.3	29.9	27.3	33.2	34.7	26.2	23.9	29.5
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°	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8
2.5°	575.3	575.7	575.7	576.1	576.4	576.4	577.2	577.2
5°	575.7	575.7	574.9	575.3	574.9	574.9	575.3	575.3
7.5°	574.9	574.6	573.8	573.5	572.7	572.7	572.7	572.7
10°	573.8	573.5	572.7	572.3	572.0	572.0	572.0	572.0
12.5°	576.8	575.7	574.9	574.6	574.6	574.6	574.6	574.6
15°	584.7	582.0	580.2	580.2	580.6	581.3	581.3	582.0
17.5°	594.4	591.4	589.5	588.0	588.8	589.9	590.6	591.4
20°	606.0	604.5	601.8	600.4	600.4	601.8	602.6	603.0
22.5°	622.0	620.9	619.8	617.9	617.9	618.7	620.2	620.2
25°	645.9	645.2	644.4	642.9	642.6	642.6	643.3	644.1
27.5°	675.8	676.2	675.4	675.1	673.9	673.6	674.7	674.3
30°	715.8	717.7	719.5	718.0	716.2	715.0	713.9	712.4
32.5°	770.0	767.7	766.2	763.6	760.2	757.3	755.0	752.4
35°	821.1	817.4	815.9	818.2	817.8	815.9	813.3	811.1
37.5°	883.9	883.2	883.9	888.0	887.3	889.1	883.9	883.5
40°	963.1	963.8	969.1	973.9	976.6	979.2	976.2	973.2
42.5°	1055.0	1054.6	1056.5	1063.2	1067.7	1070.7	1064.3	1063.6
45°	1152.1	1149.5	1151.0	1156.6	1161.1	1164.5	1157.4	1157.4
47.5°	1259.0	1254.5	1249.6	1256.0	1258.6	1260.8	1255.2	1253.4
50°	1378.2	1368.8	1358.4	1361.0	1361.0	1360.2	1353.1	1352.8
52.5°	1514.9	1497.7	1478.6	1471.6	1467.4	1463.0	1450.6	1444.7
55°	1672.2	1646.4	1616.5	1598.2	1588.5	1576.2	1555.6	1550.0
57.5°	1856.0	1815.6	1764.1	1741.7	1720.0	1699.8	1677.0	1670.7
60°	2073.8	2014.4	1946.0	1904.5	1881.0	1861.6	1838.0	1836.9
62.5°	2316.6	2222.8	2145.5	2108.1	2091.0	2073.8	2051.4	2054.3
65°	2563.5	2465.7	2393.2	2362.9	2346.9	2332.7	2310.2	2313.6
67.5°	2807.1	2717.1	2637.5	2606.5	2588.6	2570.6	2550.5	2553.8
70°	2982.0	2870.3	2780.6	2711.9	2668.9	2620.3	2588.9	2581.1
72.5°	2931.9	2759.7	2617.3	2481.0	2401.0	2336.0	2291.9	2272.9
75°	2537.4	2302.0	2119.0	1951.6	1857.5	1780.9	1725.2	1690.5
77.5°	1884.4	1619.9	1403.6	1210.8	1058.4	956.0	883.9	837.2
80°	1031.5	784.5	573.5	403.1	296.3	246.2	217.4	203.6
82.5°	321.3	207.3	152.8	131.9	122.5	117.3	108.7	94.9
85°	102.4	89.7	83.3	79.6	75.8	66.1	45.6	41.5
87.5°	39.6	40.7	40.3	38.1	38.9	28.0	22.4	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)