

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: P190899

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190899
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: GLEON-AF-01-LED-E1-5WQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7366.3 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

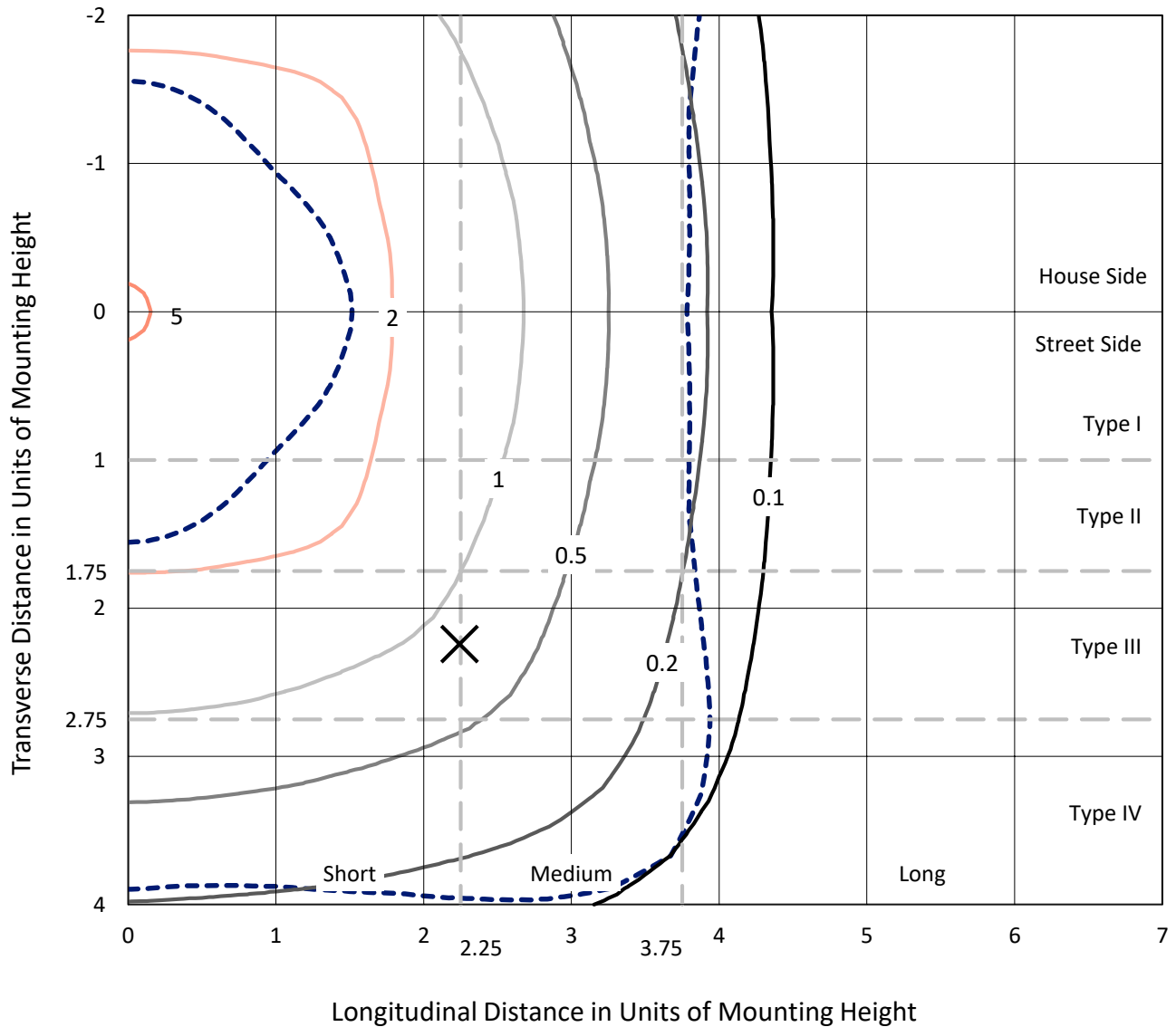
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

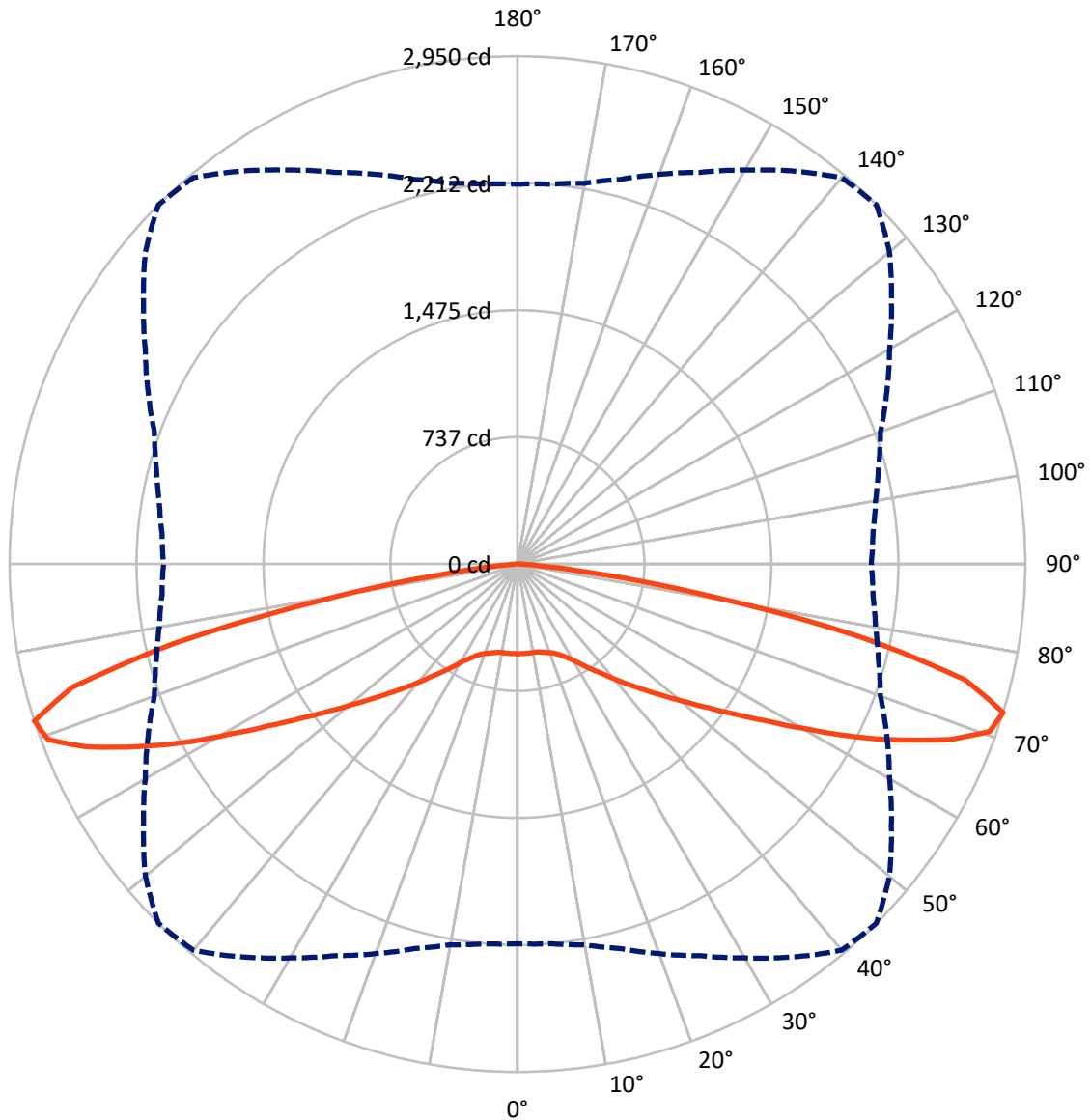
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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	3683.1	0.0	3683.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3683.1	0.0	3683.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7366.3	0.0	7366.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	0.7
10°-20°	151.3	2.1
20°-30°	276.5	3.8
30°-40°	476.7	6.5
40°-50°	814.8	11.1
50°-60°	1320.7	17.9
60°-70°	2191.1	29.7
70°-80°	1929.8	26.2
80°-90°	155.6	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°	7366.3	100.0
0°-180°	7366.3	100.0



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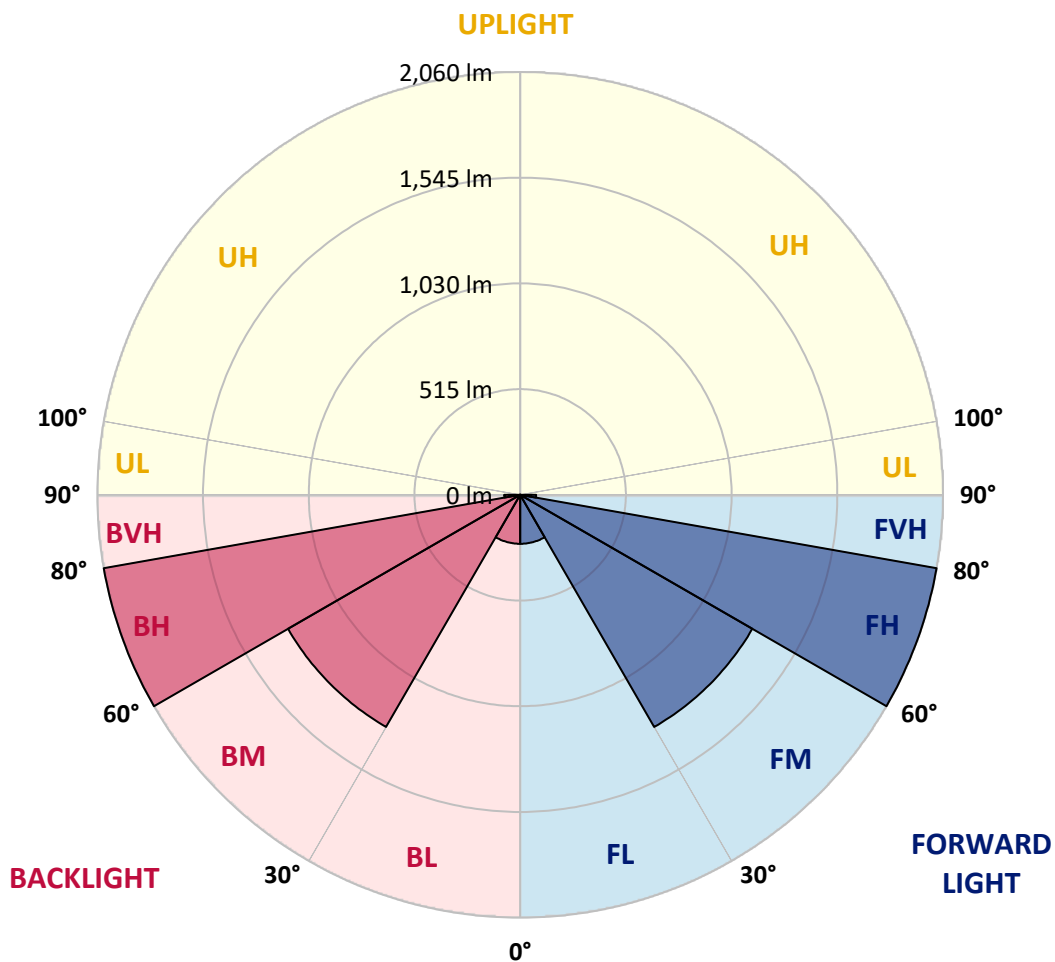
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.8	3.2			
FM	(30°-60°)	1306.1	17.7			
FH	(60°-80°)	2060.4	28.0			G2/5000
FVH	(80°-90°)	77.8	1.1			G1/100
BL	(0°-30°)	238.8	3.2	B1/500		
BM	(30°-60°)	1306.1	17.7	B2/2500		
BH	(60°-80°)	2060.4	28.0	B3/2500		G2/5000
BVH	(80°-90°)	77.8	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°	521.6	521.6	521.6	521.6	521.6	521.6	521.6	521.6	521.6	521.6	521.6
2.5°	521.6	522.0	522.3	522.0	522.0	521.6	521.3	521.6	521.3	520.7	521.0
5°	523.3	524.1	524.1	523.3	523.6	523.3	522.6	523.0	522.3	521.3	521.3
7.5°	525.4	525.7	525.7	525.0	525.4	524.7	524.1	523.6	523.0	521.6	520.7
10°	528.4	528.8	528.4	527.7	527.7	526.7	525.0	524.4	523.0	521.0	520.0
12.5°	531.8	532.1	531.8	531.1	530.8	529.1	527.7	526.7	525.7	524.1	522.3
15°	536.5	537.2	536.5	535.2	534.2	532.8	532.1	532.4	532.8	531.4	529.8
17.5°	545.3	545.6	544.6	541.6	540.2	538.9	538.9	539.5	540.5	539.9	538.2
20°	561.5	560.5	558.1	554.4	552.7	550.3	550.0	550.3	550.3	550.0	548.7
22.5°	581.8	581.1	578.1	573.4	571.0	569.6	567.6	565.9	565.6	564.6	563.2
25°	606.1	605.8	602.0	598.0	596.3	594.6	592.9	590.5	588.5	586.2	584.8
27.5°	637.2	635.9	630.4	628.4	626.0	625.0	622.7	620.0	618.3	615.2	613.6
30°	671.4	671.4	667.0	666.2	666.2	663.9	661.1	656.4	653.4	650.4	649.4
32.5°	705.4	705.7	701.3	702.8	703.8	705.4	706.1	704.4	702.4	702.1	700.0
35°	754.7	753.4	749.0	750.0	749.7	749.3	749.3	753.1	753.7	754.4	750.3
37.5°	815.9	815.9	811.5	811.5	809.5	807.5	804.8	807.1	810.9	811.8	809.2
40°	885.9	888.2	882.8	882.5	883.1	876.8	873.7	877.4	879.7	883.8	880.8
42.5°	968.3	966.6	961.2	960.6	956.8	954.8	952.1	955.1	958.8	961.6	962.5
45°	1047.3	1046.0	1039.9	1039.9	1036.1	1034.5	1035.8	1041.0	1042.6	1046.4	1050.1
47.5°	1125.3	1123.7	1119.6	1121.4	1121.7	1124.7	1129.1	1133.8	1138.5	1143.7	1145.3
50°	1205.1	1205.4	1201.0	1205.1	1210.2	1218.6	1230.5	1238.3	1248.0	1254.4	1256.5
52.5°	1277.8	1279.1	1283.8	1293.3	1303.4	1320.0	1340.3	1359.2	1375.4	1386.2	1385.6
55°	1364.9	1367.0	1378.4	1394.7	1411.3	1436.2	1466.3	1499.7	1526.8	1542.3	1532.5
57.5°	1476.4	1480.8	1493.6	1515.6	1540.3	1572.7	1613.9	1664.2	1706.2	1727.2	1711.2
60°	1629.5	1632.2	1647.7	1672.0	1701.8	1742.0	1797.0	1864.6	1923.8	1951.5	1933.2
62.5°	1831.2	1836.2	1848.8	1873.4	1903.8	1949.4	2016.6	2101.1	2174.8	2213.3	2172.0
65°	2072.1	2088.3	2098.8	2123.7	2152.1	2200.5	2270.7	2361.3	2440.4	2465.6	2418.1
67.5°	2310.5	2324.8	2343.0	2371.7	2400.5	2454.9	2520.0	2607.9	2694.8	2717.7	2643.7
70°	2415.0	2423.1	2451.5	2490.7	2545.7	2610.0	2685.2	2784.0	2891.4	2910.3	2816.4
72.5°	2205.9	2214.0	2245.7	2312.3	2408.2	2510.2	2641.7	2786.6	2928.5	2949.8	2820.4
75°	1668.3	1655.1	1702.1	1790.3	1919.7	2062.0	2245.7	2453.4	2658.5	2685.2	2530.9
77.5°	862.2	860.5	896.0	1005.5	1159.8	1321.7	1524.1	1758.9	1959.6	2040.7	1915.0
80°	243.0	245.6	262.5	316.9	407.1	524.1	682.1	902.0	1066.2	1150.1	1079.8
82.5°	95.2	102.7	109.1	119.3	131.0	148.3	197.9	294.6	395.3	472.3	386.9
85°	34.2	36.5	51.7	61.2	62.2	65.6	74.7	87.2	105.1	125.3	103.0
87.5°	12.9	14.2	16.6	27.4	27.0	24.7	30.1	31.4	23.6	21.6	26.7
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°	521.6	521.6	521.6	521.6	521.6	521.6	521.6	521.6
2.5°	520.3	520.7	520.7	521.0	521.3	521.3	522.0	522.0
5°	520.7	520.7	520.0	520.3	520.0	520.0	520.3	520.3
7.5°	520.0	519.7	518.9	518.6	517.9	517.9	517.9	517.9
10°	518.9	518.6	517.9	517.6	517.2	517.2	517.2	517.2
12.5°	521.6	520.7	520.0	519.7	519.7	519.7	519.7	519.7
15°	528.8	526.4	524.7	524.7	525.0	525.7	525.7	526.4
17.5°	537.6	534.8	533.2	531.8	532.4	533.5	534.2	534.8
20°	548.0	546.7	544.3	542.9	542.9	544.3	544.9	545.3
22.5°	562.5	561.5	560.5	558.8	558.8	559.5	560.9	560.9
25°	584.1	583.5	582.8	581.4	581.1	581.1	581.8	582.5
27.5°	611.2	611.5	610.8	610.5	609.5	609.2	610.2	609.8
30°	647.3	649.1	650.7	649.4	647.6	646.6	645.7	644.3
32.5°	696.3	694.3	692.9	690.6	687.5	684.9	682.8	680.5
35°	742.6	739.2	737.9	739.9	739.6	737.9	735.5	733.5
37.5°	799.3	798.7	799.3	803.1	802.4	804.1	799.3	799.0
40°	870.9	871.7	876.4	880.8	883.1	885.5	882.8	880.1
42.5°	954.1	953.8	955.4	961.6	965.6	968.3	962.5	961.9
45°	1042.0	1039.6	1041.0	1046.0	1050.1	1053.1	1046.7	1046.7
47.5°	1138.5	1134.6	1130.2	1135.9	1138.2	1140.3	1135.2	1133.5
50°	1246.4	1237.9	1228.5	1230.8	1230.8	1230.1	1223.8	1223.3
52.5°	1370.0	1354.5	1337.2	1330.8	1327.1	1323.1	1311.9	1306.5
55°	1512.2	1488.9	1461.9	1445.3	1436.5	1425.4	1406.9	1401.7
57.5°	1678.5	1641.9	1595.4	1575.0	1555.5	1537.2	1516.6	1510.9
60°	1875.4	1821.7	1759.9	1722.3	1701.1	1683.6	1662.2	1661.3
62.5°	2095.0	2010.2	1940.3	1906.5	1890.9	1875.4	1855.1	1857.9
65°	2318.3	2229.8	2164.3	2136.9	2122.4	2109.5	2089.3	2092.3
67.5°	2538.7	2457.2	2385.2	2357.2	2341.0	2324.8	2306.5	2309.6
70°	2696.7	2595.7	2514.6	2452.5	2413.7	2369.7	2341.3	2334.3
72.5°	2651.5	2495.7	2367.0	2243.6	2171.4	2112.6	2072.7	2055.5
75°	2294.7	2081.8	1916.3	1765.0	1679.8	1610.5	1560.2	1528.8
77.5°	1704.1	1465.0	1269.3	1095.0	957.2	864.6	799.3	757.1
80°	932.8	709.5	518.6	364.6	267.9	222.7	196.6	184.1
82.5°	290.5	187.5	138.2	119.3	110.8	106.1	98.3	85.8
85°	92.6	81.1	75.4	71.9	68.5	59.8	41.2	37.5
87.5°	35.8	36.8	36.5	34.5	35.1	25.4	20.3	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)