

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: P300661

Luminaire Tested: **GLNA-AF-02-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300661
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: GLNA-AF-02-LED-E1-RW-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7100.8 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' 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

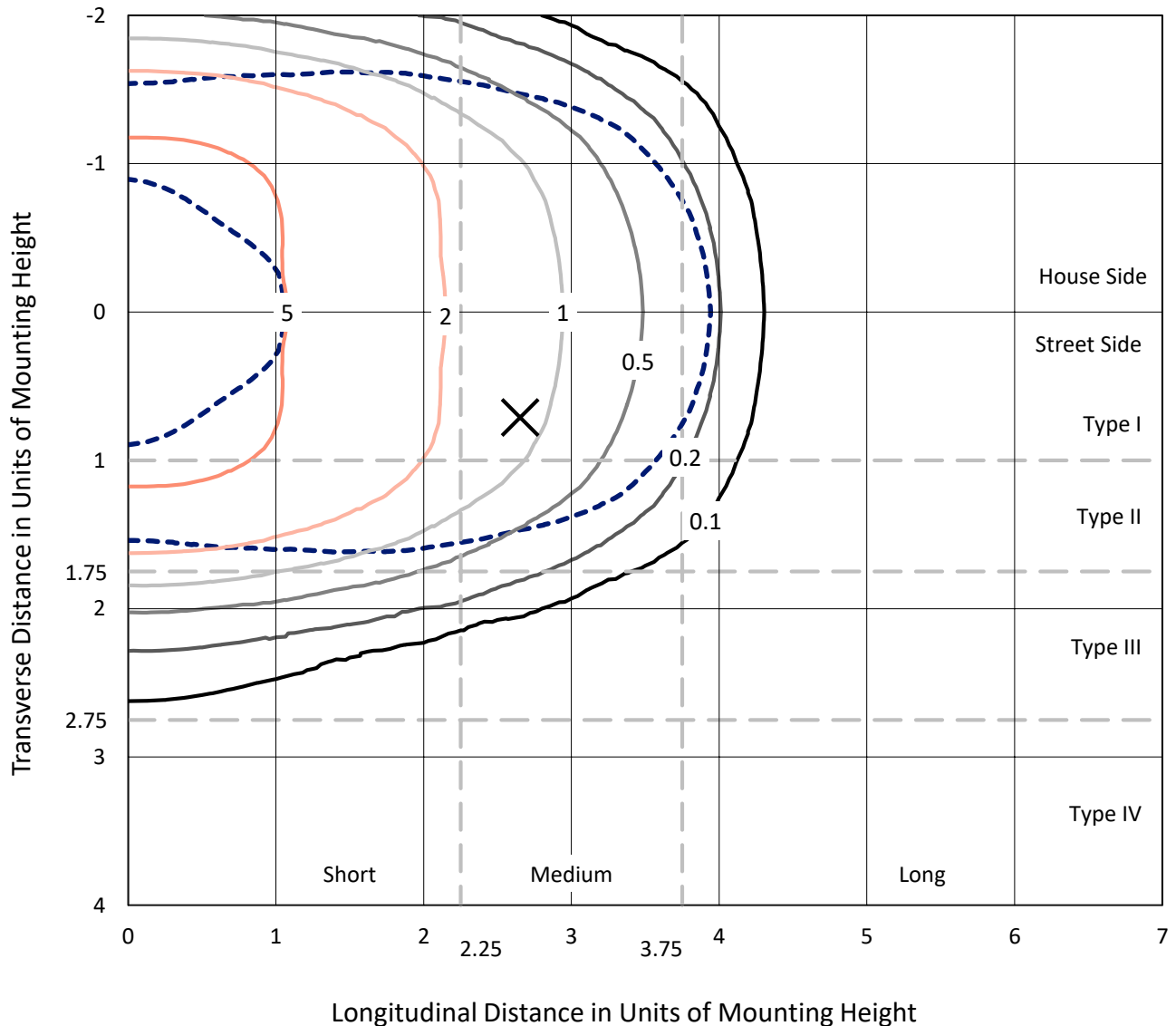


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Iso-Footcandle Lines of Horizontal Illumination

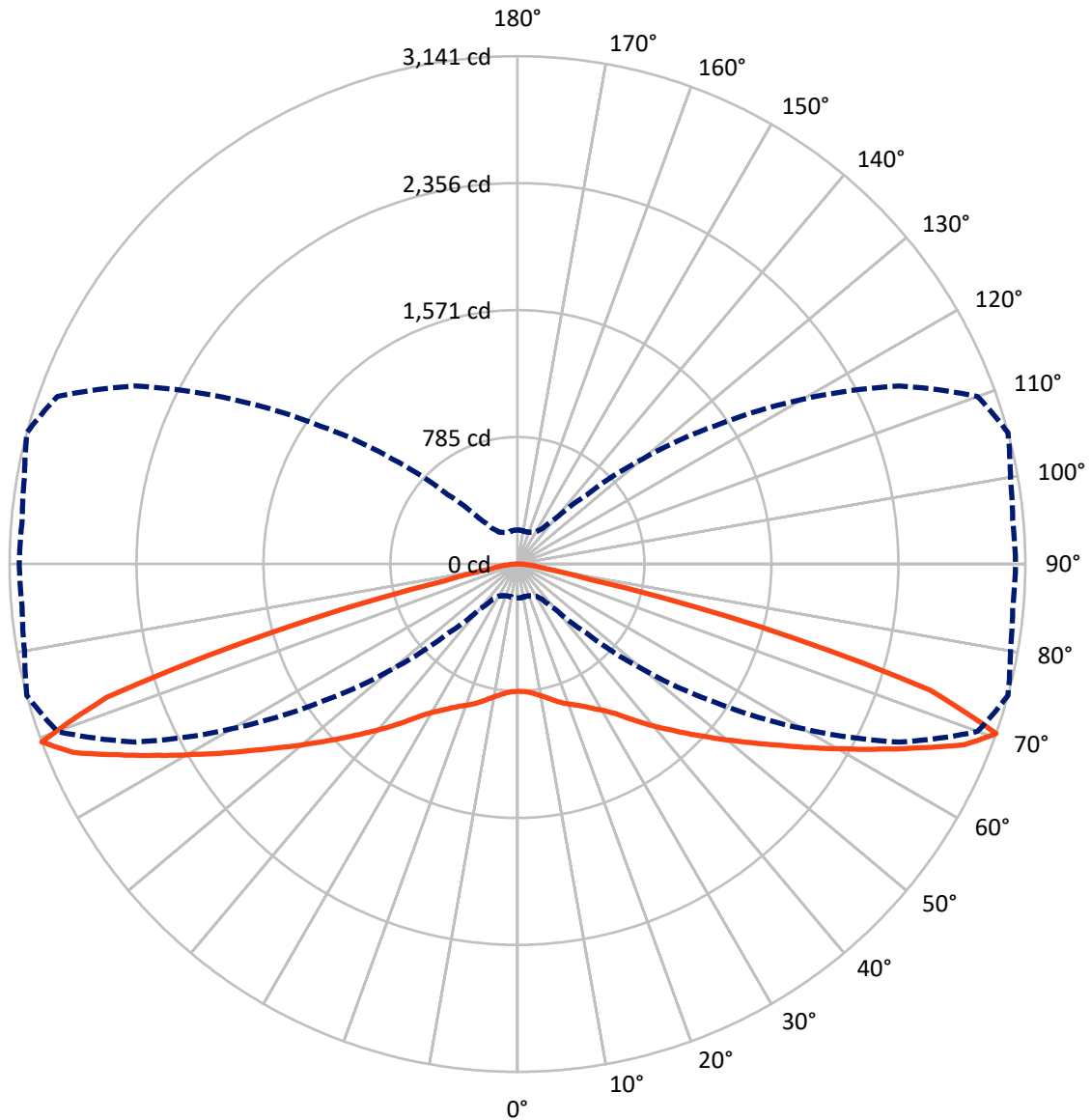
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 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
House Side	Lumens	3550.4	0.0	3550.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3550.4	0.0	3550.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7100.8	0.0	7100.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.1
10°-20°	234.7	3.3
20°-30°	441.8	6.2
30°-40°	782.3	11.0
40°-50°	1308.3	18.4
50°-60°	1823.1	25.7
60°-70°	1690.6	23.8
70°-80°	673.8	9.5
80°-90°	70.8	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°	7100.8	100.0
0°-180°	7100.8	100.0



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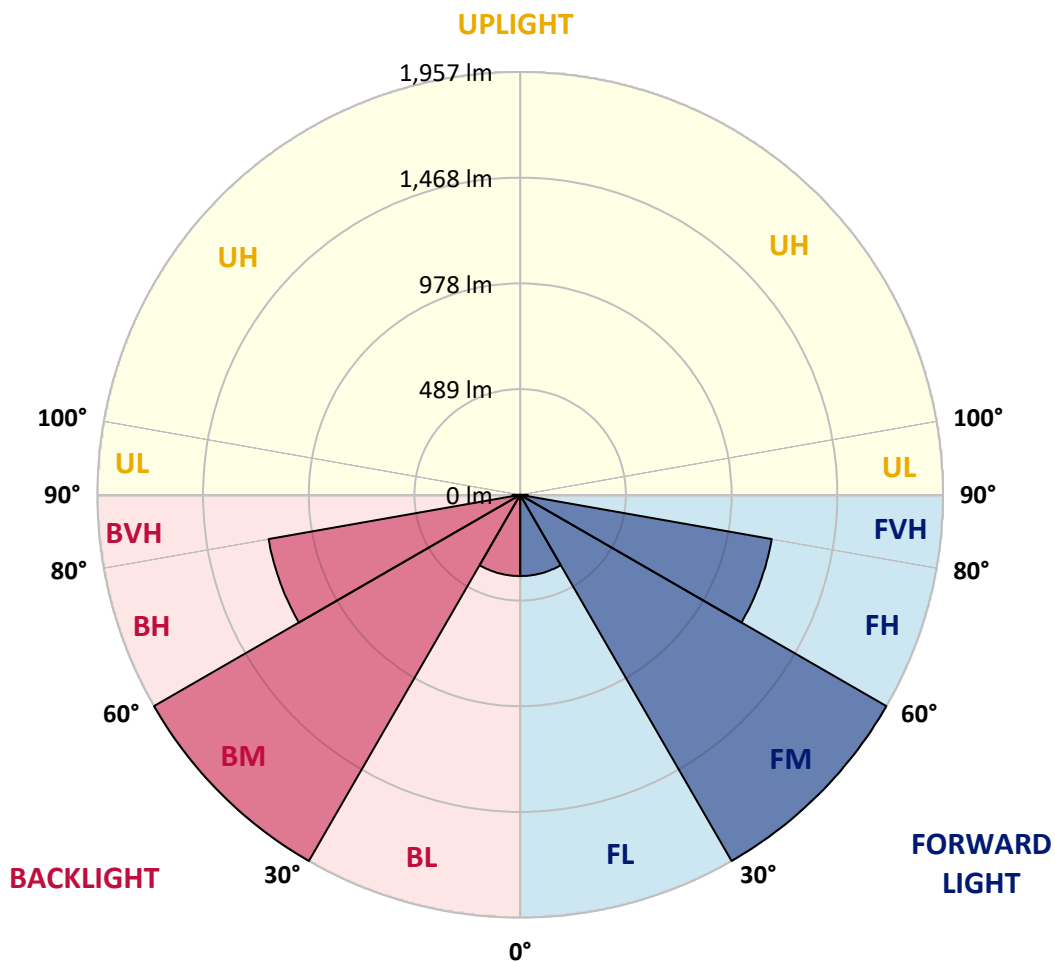
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	376.0	5.3			
FM	(30°-60°)	1956.8	27.6			
FH	(60°-80°)	1182.2	16.6			G1/1800
FVH	(80°-90°)	35.4	0.5			G1/100
BL	(0°-30°)	376.0	5.3	B1/500		
BM	(30°-60°)	1956.8	27.6	B2/2500		
BH	(60°-80°)	1182.2	16.6	B3/2500		G3/2500
BVH	(80°-90°)	35.4	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°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	786.3	785.6	786.3	786.0	786.6	786.6	787.3	788.7	788.7	789.7	789.3
5°	778.6	778.3	779.3	780.3	781.3	783.3	785.3	788.3	790.7	792.3	794.0
7.5°	763.5	763.5	764.8	767.2	769.5	773.9	778.6	784.6	790.7	795.7	800.1
10°	751.1	751.7	753.4	757.4	761.5	768.2	774.6	783.3	791.7	800.1	806.8
12.5°	743.7	744.7	747.7	753.8	760.5	769.5	779.3	790.3	799.7	809.8	816.5
15°	746.0	746.7	751.1	758.5	767.2	778.6	791.7	804.8	815.8	826.6	835.6
17.5°	759.1	760.1	765.2	773.6	782.6	796.0	810.1	824.9	838.7	850.7	861.8
20°	782.6	783.6	790.0	799.1	809.8	823.6	837.7	853.1	868.5	881.3	893.7
22.5°	815.8	817.5	823.6	832.6	844.7	859.5	876.2	892.7	907.5	919.2	930.3
25°	859.5	863.2	868.9	878.9	891.7	905.1	923.2	940.0	954.1	965.2	973.2
27.5°	921.2	926.2	930.6	940.3	952.8	965.5	983.6	998.4	1011.8	1022.6	1028.6
30°	1003.1	1008.1	1012.5	1021.9	1033.3	1045.4	1062.5	1075.6	1084.0	1092.4	1092.0
32.5°	1102.4	1107.8	1109.5	1119.6	1131.3	1144.4	1159.8	1167.2	1173.9	1174.9	1168.9
35°	1213.5	1216.2	1222.9	1236.3	1249.8	1260.5	1275.3	1279.0	1279.0	1273.9	1260.5
37.5°	1335.3	1337.0	1346.4	1361.5	1375.3	1386.4	1396.4	1403.8	1400.1	1389.4	1366.9
40°	1468.9	1471.9	1485.4	1498.8	1514.2	1524.6	1535.4	1536.7	1533.0	1517.2	1486.7
42.5°	1596.4	1599.1	1612.5	1633.7	1653.8	1668.3	1678.3	1680.3	1668.6	1654.2	1616.2
45°	1706.2	1713.2	1730.7	1755.5	1784.7	1805.2	1818.9	1824.6	1814.2	1795.4	1751.5
47.5°	1793.1	1800.1	1825.0	1854.5	1890.8	1924.0	1946.8	1958.9	1956.2	1942.1	1894.1
50°	1856.9	1863.6	1890.4	1926.7	1968.9	2010.2	2049.2	2078.0	2088.1	2081.7	2037.7
52.5°	1864.2	1875.3	1906.9	1955.5	2010.6	2066.9	2122.3	2171.3	2204.5	2209.6	2177.0
55°	1761.2	1772.3	1815.9	1888.1	1970.0	2061.9	2150.5	2233.1	2298.5	2332.1	2315.0
57.5°	1518.2	1538.0	1584.0	1668.6	1789.1	1926.7	2068.0	2214.6	2347.8	2436.8	2453.9
60°	1163.5	1187.0	1233.3	1323.3	1457.5	1621.6	1810.2	2027.0	2262.3	2462.3	2581.8
62.5°	746.4	768.5	817.2	895.4	1004.8	1182.6	1385.0	1642.4	1958.5	2274.3	2558.9
65°	383.6	395.7	421.2	468.5	553.7	686.6	868.2	1124.9	1486.4	1876.0	2287.4
67.5°	243.0	245.3	251.0	257.7	279.6	325.5	410.1	570.2	867.5	1273.9	1755.5
70°	210.1	210.1	207.4	206.4	209.1	215.5	228.5	265.8	366.1	604.7	1012.5
72.5°	192.3	190.3	185.6	181.9	181.2	181.2	183.9	189.6	205.7	246.3	396.3
75°	177.2	171.5	165.1	160.8	159.1	157.4	157.1	158.1	161.4	167.8	189.3
77.5°	158.7	151.4	144.0	139.6	137.6	135.2	133.2	130.9	129.2	131.2	140.6
80°	136.6	128.2	122.5	119.8	117.8	114.4	110.1	106.0	102.4	101.7	107.4
82.5°	110.1	100.3	100.7	101.7	98.0	93.3	88.6	84.2	77.9	74.5	77.9
85°	88.9	83.9	81.6	87.9	82.6	75.5	68.1	60.4	50.3	42.3	46.0
87.5°	34.6	34.6	51.7	79.5	71.5	58.4	50.0	42.6	26.5	20.5	20.8
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°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	789.0	789.7	789.3	789.0	789.0	788.7	789.0	789.0
5°	795.0	796.7	796.7	797.4	797.4	797.7	798.1	797.7
7.5°	804.1	807.1	809.1	811.5	811.8	812.1	812.8	812.1
10°	813.2	819.2	823.6	827.9	829.9	830.6	831.3	831.3
12.5°	824.6	833.0	840.7	848.4	852.1	854.1	854.1	855.4
15°	843.4	851.7	860.8	871.2	877.6	880.9	881.9	881.9
17.5°	869.9	877.3	885.0	895.0	903.1	907.5	908.5	908.1
20°	900.7	907.8	912.2	918.5	925.6	930.6	932.0	932.0
22.5°	936.0	940.0	940.7	942.7	948.4	955.1	958.1	958.8
25°	974.9	975.9	973.2	973.2	976.9	983.3	986.3	986.7
27.5°	1025.2	1020.2	1013.5	1011.2	1013.5	1020.9	1024.6	1025.9
30°	1088.0	1075.9	1060.5	1052.1	1050.8	1060.5	1067.2	1068.2
32.5°	1159.8	1142.4	1121.9	1104.8	1100.4	1106.5	1114.5	1114.2
35°	1245.1	1224.3	1199.4	1177.6	1167.5	1173.6	1185.0	1186.3
37.5°	1343.4	1316.2	1287.7	1260.2	1244.4	1246.1	1258.2	1262.2
40°	1453.1	1417.9	1382.0	1345.1	1322.6	1318.2	1333.0	1335.3
42.5°	1570.6	1525.3	1480.0	1434.3	1405.5	1398.8	1415.9	1414.9
45°	1695.8	1638.1	1585.0	1534.7	1500.5	1490.4	1504.5	1504.5
47.5°	1830.3	1759.2	1696.1	1639.1	1601.8	1587.4	1600.8	1601.8
50°	1973.0	1897.5	1823.3	1759.9	1715.2	1696.8	1714.2	1716.9
52.5°	2114.9	2041.4	1966.6	1894.1	1840.1	1817.6	1837.7	1846.5
55°	2258.9	2186.8	2115.3	2044.5	1980.4	1953.8	1975.3	1986.4
57.5°	2410.9	2344.1	2276.0	2204.5	2142.8	2101.5	2124.3	2139.1
60°	2589.1	2532.1	2461.3	2382.4	2320.0	2278.0	2291.1	2304.2
62.5°	2730.1	2752.2	2692.2	2600.9	2520.7	2467.0	2479.7	2493.5
65°	2662.0	2889.2	2942.5	2850.2	2739.1	2655.6	2650.2	2657.3
67.5°	2225.0	2666.3	2988.2	3076.1	2983.1	2867.0	2845.5	2855.9
70°	1488.4	2038.1	2605.9	3028.8	3141.2	3096.2	3075.1	3081.5
72.5°	714.8	1187.0	1767.9	2330.1	2672.4	2829.4	2879.8	2904.3
75°	261.4	471.2	852.1	1284.0	1550.1	1794.4	1953.8	2019.0
77.5°	157.7	190.3	272.2	409.8	464.1	519.5	498.0	508.8
80°	116.8	131.9	149.3	167.8	173.8	173.8	167.1	161.8
82.5°	81.9	91.6	100.0	110.1	112.8	107.7	88.6	70.5
85°	52.7	57.1	60.7	67.1	65.4	62.4	41.9	37.3
87.5°	24.2	27.5	28.9	31.9	30.5	29.2	20.8	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)