

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: P299702

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8124.3 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

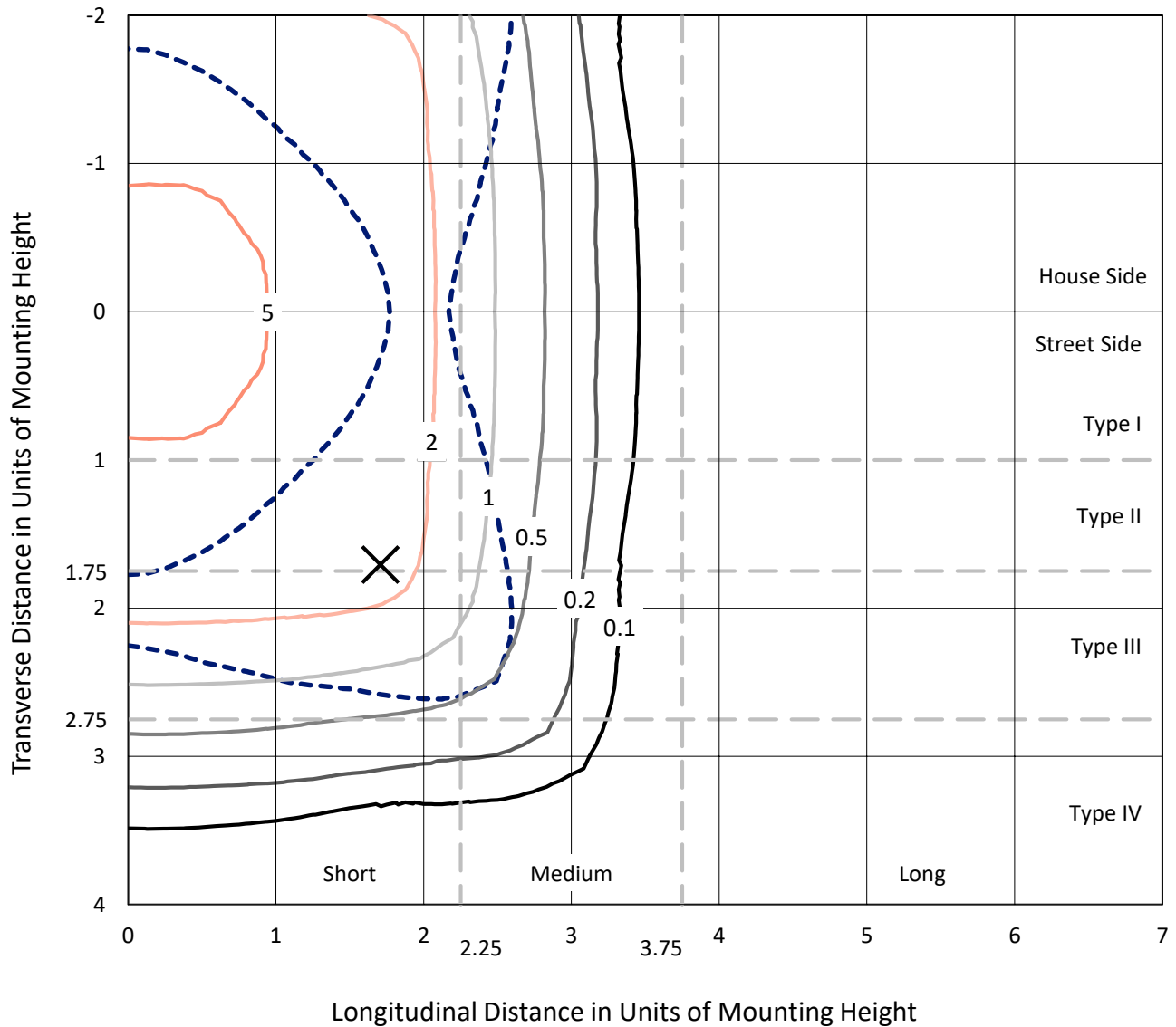
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

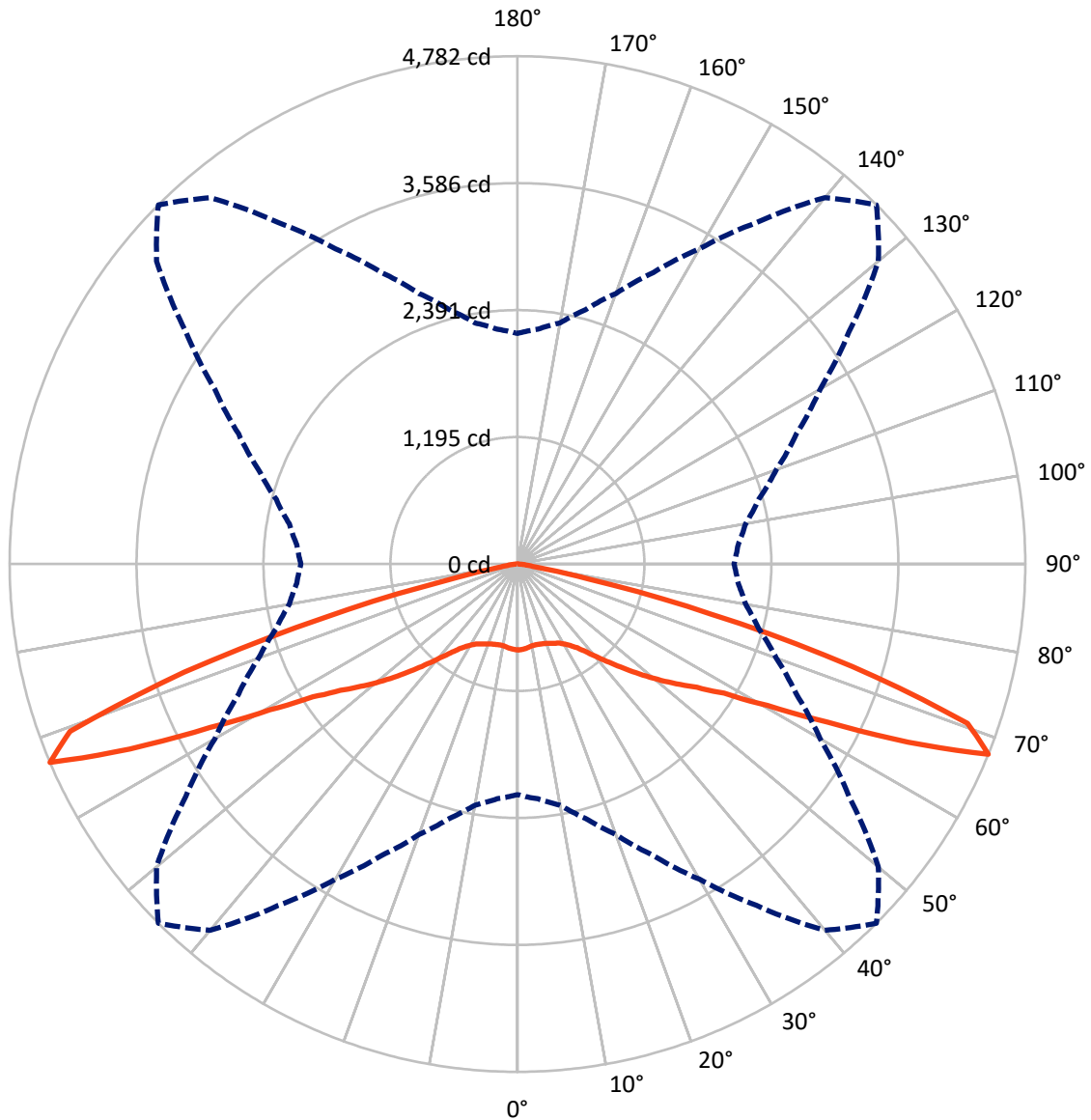


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4062.2	0.0	4062.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4062.2	0.0	4062.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8124.3	0.0	8124.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	0.9
10°-20°	219.9	2.7
20°-30°	373.8	4.6
30°-40°	611.1	7.5
40°-50°	1090.9	13.4
50°-60°	1839.2	22.6
60°-70°	2854.2	35.1
70°-80°	1002.8	12.3
80°-90°	56.7	0.7
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°	8124.3	100.0
0°-180°	8124.3	100.0

**Coefficient of Utilization**



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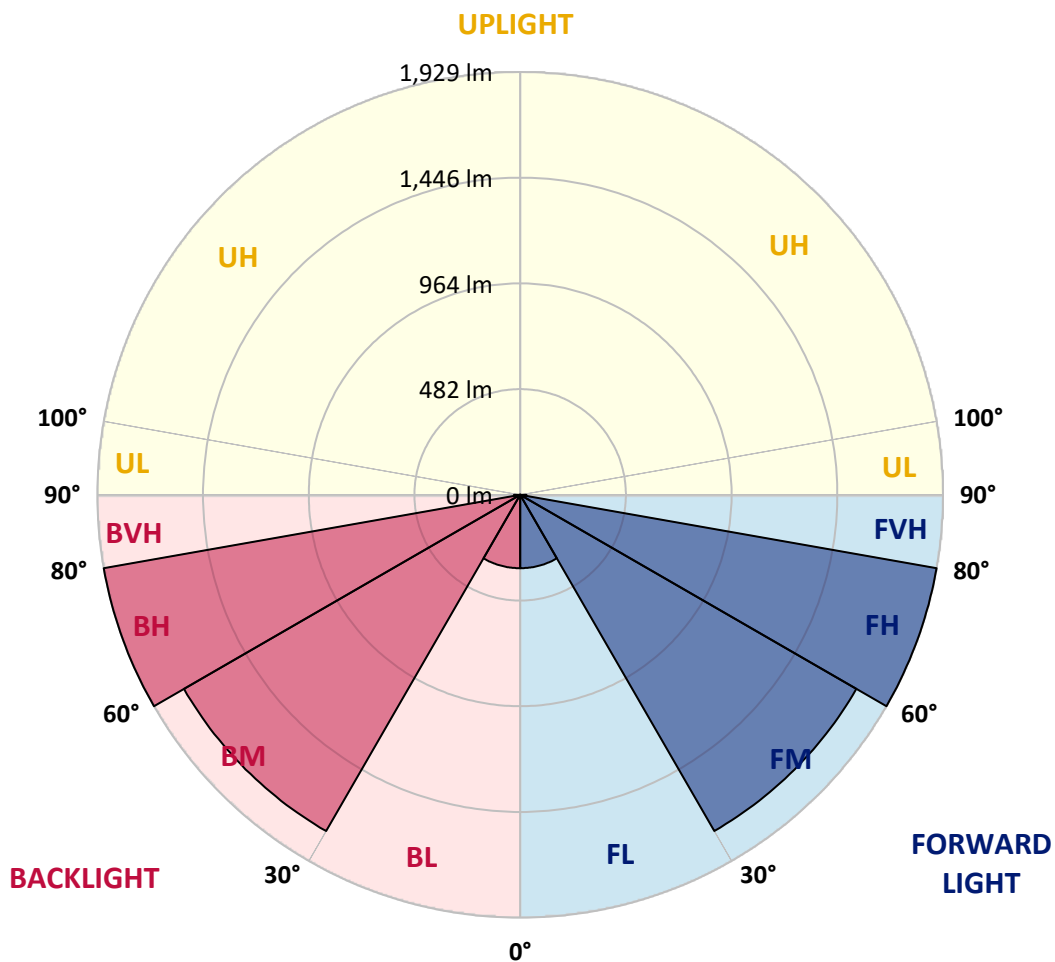
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.7	4.1			
FM	(30°-60°)	1770.6	21.8			
FH	(60°-80°)	1928.5	23.7			G2/5000
FVH	(80°-90°)	28.3	0.3			G1/100
BL	(0°-30°)	334.7	4.1	B1/500		
BM	(30°-60°)	1770.6	21.8	B2/2500		
BH	(60°-80°)	1928.5	23.7	B3/2500		G2/5000
BVH	(80°-90°)	28.3	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6
2.5°	806.6	807.4	807.4	807.4	807.0	807.0	806.3	807.0	806.6	805.5	805.9
5°	799.9	800.7	800.7	800.3	801.4	801.0	799.9	800.7	800.3	799.5	799.9
7.5°	790.2	791.3	791.3	790.9	792.1	791.7	790.9	791.3	791.3	790.2	790.2
10°	779.4	780.1	780.1	779.7	781.6	781.6	781.2	782.3	782.7	781.6	780.9
12.5°	769.3	770.4	770.4	771.9	773.8	774.5	776.4	777.9	779.4	779.0	777.5
15°	763.3	764.0	765.5	767.4	770.4	773.0	776.0	779.4	782.3	783.1	780.9
17.5°	759.6	760.7	762.9	765.5	769.6	774.1	778.6	783.1	787.2	788.7	786.1
20°	758.4	759.2	761.4	765.9	771.5	778.2	784.6	789.8	795.4	797.3	795.4
22.5°	760.7	762.2	764.8	770.0	777.5	786.1	793.6	800.7	807.8	811.1	808.5
25°	770.8	772.3	775.6	782.3	790.6	799.5	808.1	816.3	822.7	826.1	824.2
27.5°	789.4	791.3	795.4	802.1	811.1	820.8	830.2	836.9	842.1	843.2	841.0
30°	817.5	821.6	826.4	833.9	844.4	852.6	861.9	867.9	874.3	874.3	872.4
32.5°	861.2	865.3	870.5	877.6	885.8	894.8	903.0	908.3	915.0	915.4	910.9
35°	926.6	928.4	932.9	937.4	944.9	952.7	959.8	963.2	968.8	969.2	965.0
37.5°	1012.9	1013.2	1016.2	1017.7	1024.4	1033.0	1039.8	1042.0	1047.2	1046.5	1042.4
40°	1113.4	1115.2	1116.4	1118.6	1125.7	1133.9	1141.0	1142.1	1147.7	1146.6	1141.4
42.5°	1229.6	1230.3	1236.7	1240.0	1246.7	1250.9	1259.8	1260.9	1267.7	1264.7	1258.7
45°	1360.0	1366.7	1372.7	1379.4	1386.5	1391.3	1398.4	1396.9	1401.4	1396.9	1393.6
47.5°	1497.1	1501.9	1515.4	1525.8	1537.4	1541.5	1551.6	1547.1	1551.6	1545.3	1544.1
50°	1648.0	1656.6	1668.2	1680.1	1692.5	1699.2	1712.3	1706.7	1712.6	1706.7	1703.3
52.5°	1796.7	1799.0	1824.4	1841.9	1859.1	1866.9	1874.8	1872.2	1872.6	1872.2	1868.8
55°	1937.9	1943.2	1968.6	1992.5	2022.4	2044.4	2057.9	2056.4	2053.0	2049.6	2044.0
57.5°	2097.1	2102.3	2131.5	2161.0	2195.0	2226.4	2253.6	2281.7	2292.5	2295.5	2283.2
60°	2312.3	2311.9	2350.8	2386.6	2435.2	2481.9	2541.7	2602.6	2672.5	2705.0	2662.0
62.5°	2531.2	2540.2	2596.2	2659.8	2759.9	2857.4	2967.6	3076.0	3186.6	3276.6	3180.9
65°	2505.1	2539.5	2622.8	2766.6	2951.6	3171.2	3408.9	3660.3	3887.5	4043.6	3868.4
67.5°	2171.1	2220.0	2304.8	2479.7	2710.9	3027.8	3426.8	3924.1	4502.0	4781.5	4435.2
70°	1573.7	1629.0	1717.9	1888.6	2117.6	2418.8	2852.2	3449.2	4214.4	4496.1	4114.6
72.5°	783.1	813.0	867.9	976.6	1150.0	1394.3	1787.4	2361.2	3038.2	3296.8	2948.2
75°	266.0	279.8	289.2	324.7	379.6	475.6	671.0	1032.3	1574.8	1887.9	1552.4
77.5°	153.6	153.9	160.3	166.6	176.0	186.4	212.6	279.1	482.7	685.6	499.5
80°	99.4	99.0	104.2	109.1	115.4	120.7	122.2	129.3	149.1	176.7	158.0
82.5°	51.6	57.9	69.5	75.8	87.8	90.0	87.1	84.4	89.3	92.7	94.9
85°	28.4	24.7	37.0	47.8	53.1	53.8	53.8	50.8	52.7	51.6	56.0
87.5°	13.1	12.0	14.6	23.5	25.0	21.3	22.4	19.8	14.2	13.8	15.7
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°	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6
2.5°	805.9	806.3	806.3	807.4	807.8	808.5	809.2	809.6
5°	799.5	800.7	799.9	801.0	801.0	801.8	801.8	802.1
7.5°	790.2	791.3	791.3	791.3	790.9	792.1	792.1	792.1
10°	780.5	781.2	780.9	780.1	779.4	780.5	780.1	779.7
12.5°	777.5	775.6	774.1	773.4	771.9	772.3	771.1	771.1
15°	779.4	776.0	773.4	772.3	770.8	770.0	769.3	769.6
17.5°	784.2	780.1	776.7	774.9	773.0	771.9	770.4	770.8
20°	792.8	788.0	783.1	779.4	776.0	774.1	773.0	772.6
22.5°	805.5	798.4	791.3	785.7	781.2	778.6	777.5	776.7
25°	820.1	812.2	804.0	797.7	793.2	789.8	787.6	787.6
27.5°	838.4	832.0	824.6	817.1	813.0	809.6	808.1	807.4
30°	869.0	863.0	857.1	850.0	844.7	841.4	838.8	836.5
32.5°	908.3	903.4	898.5	893.3	888.5	884.0	879.9	878.0
35°	963.6	959.8	956.5	950.5	948.6	946.0	943.7	941.9
37.5°	1039.8	1038.3	1038.3	1031.9	1030.4	1029.3	1027.1	1027.4
40°	1139.9	1141.4	1139.5	1137.3	1136.2	1133.2	1133.2	1135.8
42.5°	1258.3	1259.5	1263.6	1259.8	1263.9	1260.2	1258.0	1259.8
45°	1395.8	1399.9	1408.2	1404.4	1407.0	1400.7	1392.8	1393.2
47.5°	1550.1	1553.9	1557.2	1554.6	1555.0	1544.5	1534.1	1531.4
50°	1710.4	1711.9	1713.8	1710.0	1710.8	1699.2	1687.2	1687.6
52.5°	1868.8	1875.9	1883.4	1873.3	1871.1	1858.0	1841.2	1834.4
55°	2050.0	2060.1	2051.5	2034.0	2016.4	1998.8	1976.8	1973.1
57.5°	2273.4	2256.3	2229.4	2196.1	2171.8	2147.2	2124.7	2115.4
60°	2584.3	2519.7	2471.1	2421.8	2390.8	2360.5	2331.0	2326.5
62.5°	3023.7	2911.9	2815.2	2713.2	2629.9	2564.9	2512.9	2498.4
65°	3574.4	3310.2	3081.2	2867.5	2681.8	2541.7	2453.5	2414.7
67.5°	3811.2	3289.7	2897.0	2593.6	2350.8	2181.2	2085.9	2038.4
70°	3349.1	2728.1	2301.1	1997.3	1776.2	1595.3	1509.0	1458.2
72.5°	2304.1	1735.4	1372.3	1120.1	943.4	792.1	732.3	727.8
75°	1034.5	685.2	472.2	363.9	306.4	266.4	254.1	244.7
77.5°	289.6	214.1	190.9	178.6	166.6	152.8	147.6	148.7
80°	140.9	133.0	127.8	119.9	109.1	97.5	92.3	94.5
82.5°	93.4	92.3	95.6	90.0	74.3	63.1	53.1	48.6
85°	56.8	57.5	58.7	59.0	50.1	35.1	23.9	26.9
87.5°	22.4	25.8	28.0	29.1	27.3	16.8	13.5	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)