

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: P269043

Luminaire Tested: **GLEON-AF-02-LED-E1-5MQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269043
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: GLEON-AF-02-LED-E1-5MQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8980.6 lumens
Efficiency: N/A
Efficacy: 105.7 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): 85
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

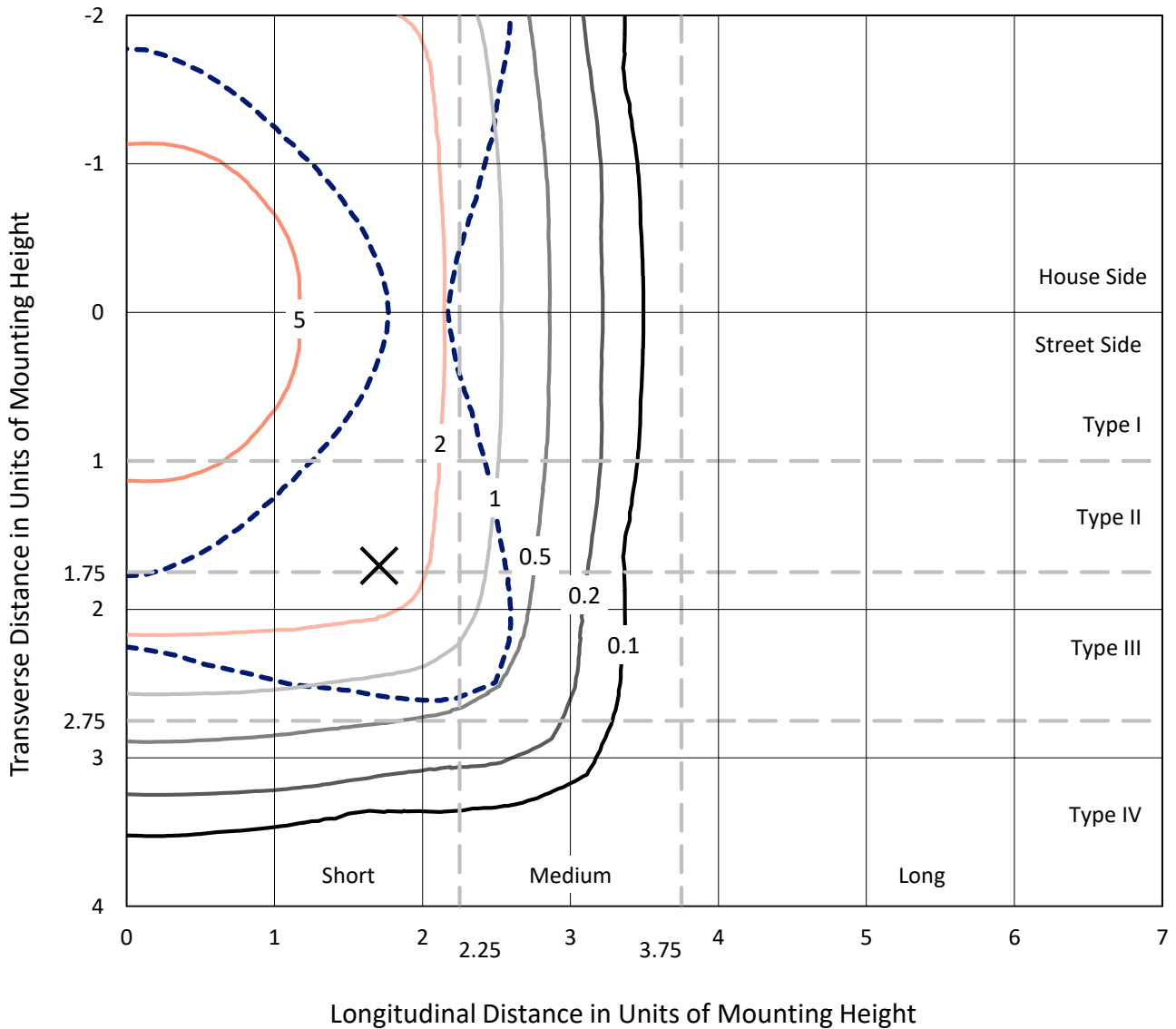


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Iso-Footcandle Lines of Horizontal Illumination

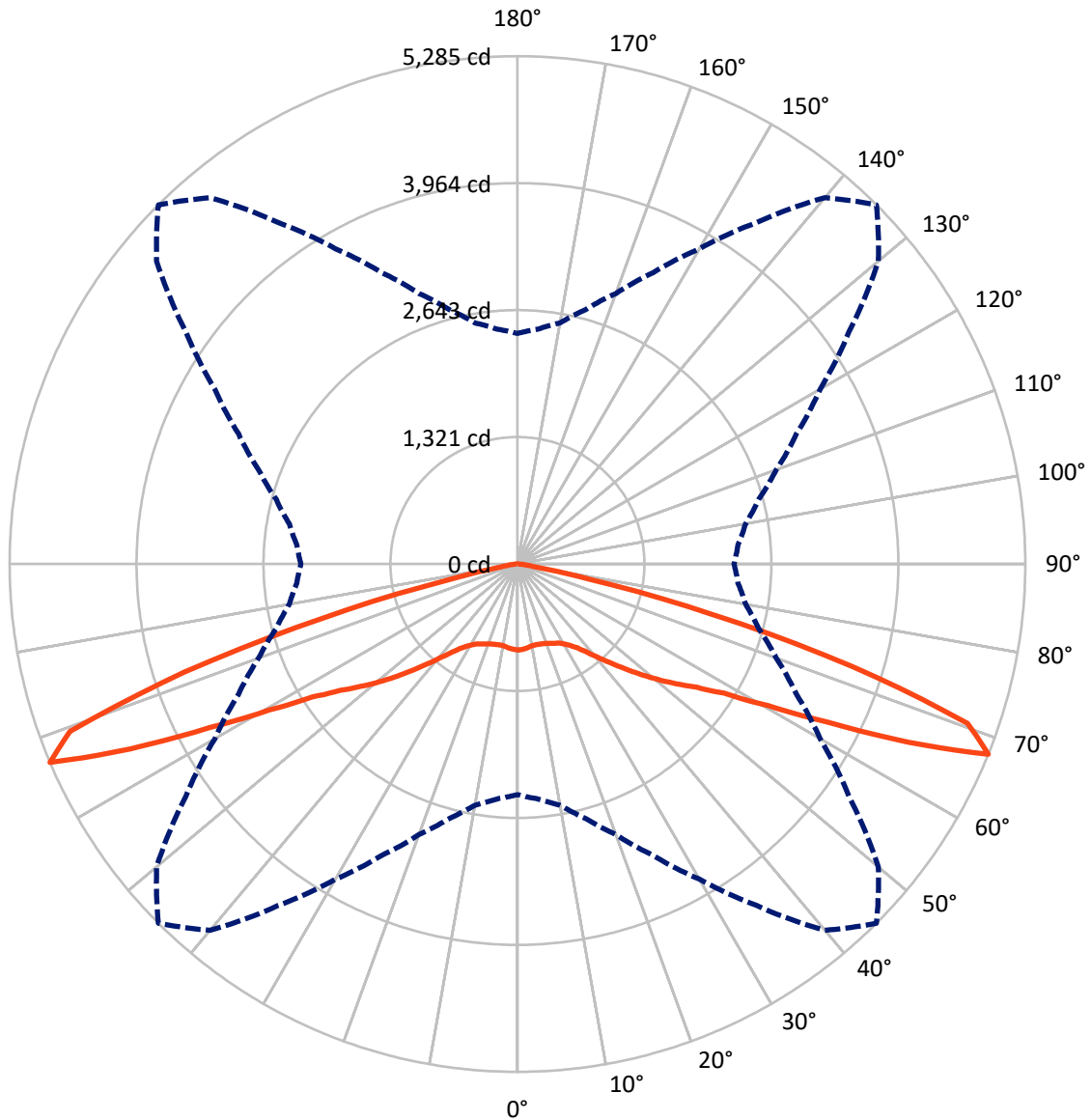
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 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
House Side	Lumens	4490.3	0.0	4490.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4490.3	0.0	4490.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8980.6	0.0	8980.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	0.9
10°-20°	243.1	2.7
20°-30°	413.2	4.6
30°-40°	675.5	7.5
40°-50°	1205.8	13.4
50°-60°	2033.1	22.6
60°-70°	3155.0	35.1
70°-80°	1108.5	12.3
80°-90°	62.6	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°	8980.6	100.0
0°-180°	8980.6	100.0



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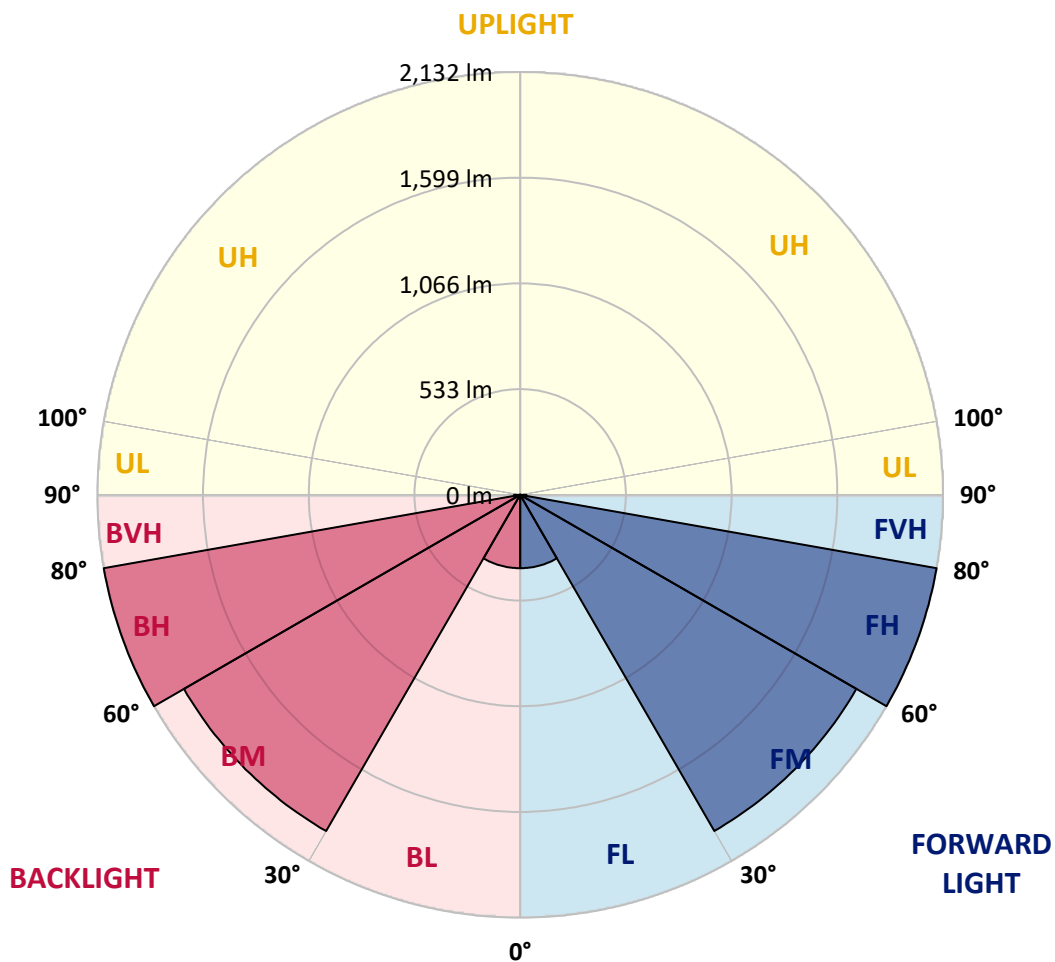
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.0	4.1			
FM (30°-60°)	1957.2	21.8			
FH (60°-80°)	2131.8	23.7			G2/5000
FVH (80°-90°)	31.3	0.3			G1/100
BL (0°-30°)	370.0	4.1	B1/500		
BM (30°-60°)	1957.2	21.8	B2/2500		
BH (60°-80°)	2131.8	23.7	B3/2500		G2/5000
BVH (80°-90°)	31.3	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°	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9
2.5°	891.7	892.5	892.5	892.5	892.0	892.0	891.2	892.0	891.7	890.4	890.8
5°	884.2	885.0	885.0	884.7	885.9	885.5	884.2	885.0	884.7	883.8	884.2
7.5°	873.5	874.7	874.7	874.3	875.6	875.0	874.3	874.7	874.7	873.5	873.5
10°	861.6	862.4	862.4	862.0	864.0	864.0	863.6	864.8	865.2	864.0	863.1
12.5°	850.3	851.7	851.7	853.2	855.2	856.2	858.2	859.9	861.6	861.0	859.4
15°	843.8	844.5	846.3	848.3	851.7	854.5	857.8	861.6	864.8	865.6	863.1
17.5°	839.6	840.9	843.2	846.3	850.8	855.7	860.7	865.6	870.2	871.9	868.9
20°	838.4	839.1	841.7	846.7	852.9	860.2	867.3	873.1	879.3	881.3	879.3
22.5°	840.9	842.5	845.3	851.1	859.4	868.9	877.1	885.0	892.8	896.6	893.8
25°	852.0	853.7	857.3	864.8	874.0	883.8	893.4	902.3	909.4	913.1	911.1
27.5°	872.7	874.7	879.3	886.6	896.6	907.4	917.7	925.2	930.9	932.1	929.7
30°	903.7	908.1	913.5	921.8	933.3	942.4	952.7	959.4	966.3	966.3	964.3
32.5°	951.9	956.4	962.3	970.1	979.2	989.2	998.1	1003.9	1011.4	1011.9	1006.9
35°	1024.2	1026.3	1031.3	1036.1	1044.5	1053.2	1061.0	1064.8	1070.9	1071.3	1066.7
37.5°	1119.6	1120.0	1123.3	1124.9	1132.5	1141.9	1149.3	1151.8	1157.6	1156.7	1152.3
40°	1230.7	1232.7	1234.0	1236.4	1244.3	1253.5	1261.3	1262.5	1268.6	1267.5	1261.7
42.5°	1359.1	1359.9	1367.0	1370.8	1378.2	1382.8	1392.6	1393.8	1401.3	1397.9	1391.4
45°	1503.3	1510.7	1517.3	1524.8	1532.6	1538.0	1545.9	1544.1	1549.1	1544.1	1540.5
47.5°	1654.9	1660.2	1675.1	1686.7	1699.5	1703.9	1715.1	1710.3	1715.1	1708.1	1706.9
50°	1821.8	1831.3	1844.0	1857.2	1870.8	1878.3	1892.6	1886.5	1893.2	1886.5	1882.8
52.5°	1986.1	1988.6	2016.7	2036.1	2055.1	2063.8	2072.4	2069.4	2070.0	2069.4	2065.8
55°	2142.2	2147.9	2176.1	2202.5	2235.5	2259.9	2274.8	2273.2	2269.4	2265.6	2259.4
57.5°	2318.2	2323.8	2356.2	2388.8	2426.3	2460.9	2491.2	2522.1	2534.1	2537.4	2523.8
60°	2555.9	2555.6	2598.5	2638.2	2692.0	2743.6	2809.5	2876.9	2954.2	2990.1	2942.6
62.5°	2798.0	2807.9	2869.8	2940.2	3050.7	3158.5	3280.4	3400.2	3522.4	3622.0	3516.1
65°	2769.0	2807.2	2899.2	3058.2	3262.6	3505.5	3768.1	4046.1	4297.1	4469.7	4276.1
67.5°	2399.9	2454.0	2547.8	2741.0	2996.7	3346.8	3788.0	4337.6	4976.5	5285.4	4902.6
70°	1739.5	1800.7	1898.9	2087.8	2340.9	2673.6	3152.8	3812.8	4658.5	4970.0	4548.3
72.5°	865.6	898.7	959.4	1079.6	1271.2	1541.3	1975.7	2610.0	3358.5	3644.2	3259.0
75°	294.0	309.3	319.6	359.0	419.6	525.8	741.7	1141.0	1740.7	2086.9	1716.0
77.5°	169.7	170.1	177.1	184.2	194.6	206.2	234.9	308.5	533.7	757.8	552.2
80°	109.9	109.5	115.3	120.6	127.6	133.4	135.0	142.9	164.7	195.3	174.7
82.5°	57.0	64.0	76.8	83.8	97.0	99.5	96.2	93.3	98.8	102.4	104.9
85°	31.4	27.3	41.0	52.9	58.7	59.5	59.5	56.1	58.2	57.0	62.0
87.5°	14.5	13.2	16.1	26.1	27.7	23.5	24.8	21.9	15.7	15.4	17.3
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°	894.9	894.9	894.9	894.9	894.9	894.9	894.9	894.9
2.5°	890.8	891.2	891.2	892.5	892.8	893.8	894.5	894.9
5°	883.8	885.0	884.2	885.5	885.5	886.3	886.3	886.6
7.5°	873.5	874.7	874.7	874.7	874.3	875.6	875.6	875.6
10°	862.7	863.6	863.1	862.4	861.6	862.7	862.4	862.0
12.5°	859.4	857.3	855.7	854.8	853.2	853.7	852.4	852.4
15°	861.6	857.8	854.8	853.7	852.0	851.1	850.3	850.8
17.5°	866.9	862.4	858.6	856.5	854.5	853.2	851.7	852.0
20°	876.3	870.9	865.6	861.6	857.8	855.7	854.5	854.1
22.5°	890.4	882.6	874.7	868.5	863.6	860.7	859.4	858.6
25°	906.5	897.9	888.8	881.7	876.7	873.1	870.5	870.5
27.5°	926.7	919.8	911.5	903.2	898.7	894.9	893.4	892.5
30°	960.6	954.0	947.4	939.5	933.8	930.0	927.2	924.6
32.5°	1003.9	998.6	993.3	987.4	982.0	977.1	972.5	970.4
35°	1065.1	1061.0	1057.2	1050.7	1048.6	1045.6	1043.2	1041.1
37.5°	1149.3	1147.8	1147.8	1140.7	1139.1	1137.9	1135.3	1135.7
40°	1260.1	1261.7	1259.7	1257.2	1255.9	1252.5	1252.5	1255.6
42.5°	1390.9	1392.3	1396.8	1392.6	1397.1	1393.0	1390.5	1392.6
45°	1542.8	1547.5	1556.6	1552.5	1555.3	1548.3	1539.7	1540.1
47.5°	1713.4	1717.6	1721.3	1718.5	1718.8	1707.3	1695.7	1692.9
50°	1890.7	1892.3	1894.3	1890.3	1891.1	1878.3	1865.2	1865.5
52.5°	2065.8	2073.6	2081.9	2070.8	2068.3	2053.9	2035.2	2027.7
55°	2266.1	2277.3	2267.7	2248.3	2229.0	2209.6	2185.1	2181.1
57.5°	2513.1	2494.1	2464.3	2427.6	2400.7	2373.4	2348.7	2338.4
60°	2856.7	2785.3	2731.6	2676.9	2642.8	2609.2	2576.7	2571.7
62.5°	3342.4	3218.8	3111.9	2999.1	2907.1	2835.2	2777.7	2761.7
65°	3951.0	3659.1	3406.0	3169.7	2964.4	2809.5	2712.2	2669.1
67.5°	4213.0	3636.3	3202.3	2867.0	2598.5	2411.1	2305.7	2253.3
70°	3702.1	3015.7	2543.6	2207.9	1963.3	1763.5	1668.1	1611.9
72.5°	2547.0	1918.3	1516.9	1238.1	1042.8	875.6	809.5	804.5
75°	1143.5	757.5	522.0	402.3	338.7	294.5	280.8	270.5
77.5°	320.1	236.7	211.0	197.4	184.2	168.9	163.1	164.4
80°	155.6	147.1	141.3	132.6	120.6	107.7	102.0	104.6
82.5°	103.2	102.0	105.7	99.5	82.1	69.8	58.7	53.7
85°	62.8	63.6	64.9	65.2	55.3	38.8	26.4	29.7
87.5°	24.8	28.4	31.0	32.2	30.2	18.5	14.8	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)