

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: P269052

Luminaire Tested: **GLEON-AF-02-LED-E1-5WQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269052  
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-02-LED-E1-5WQ-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12226.3 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 129  
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

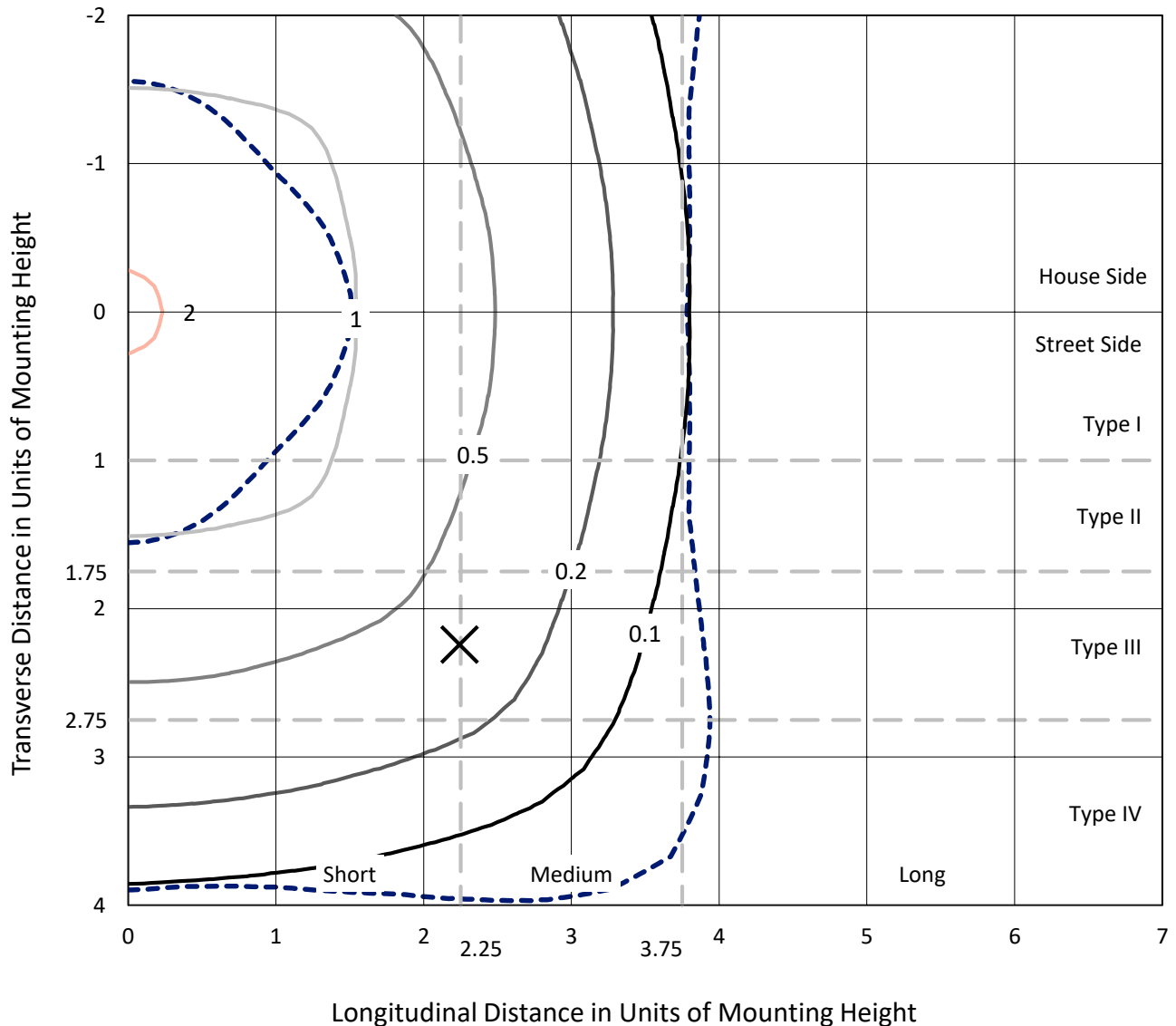


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

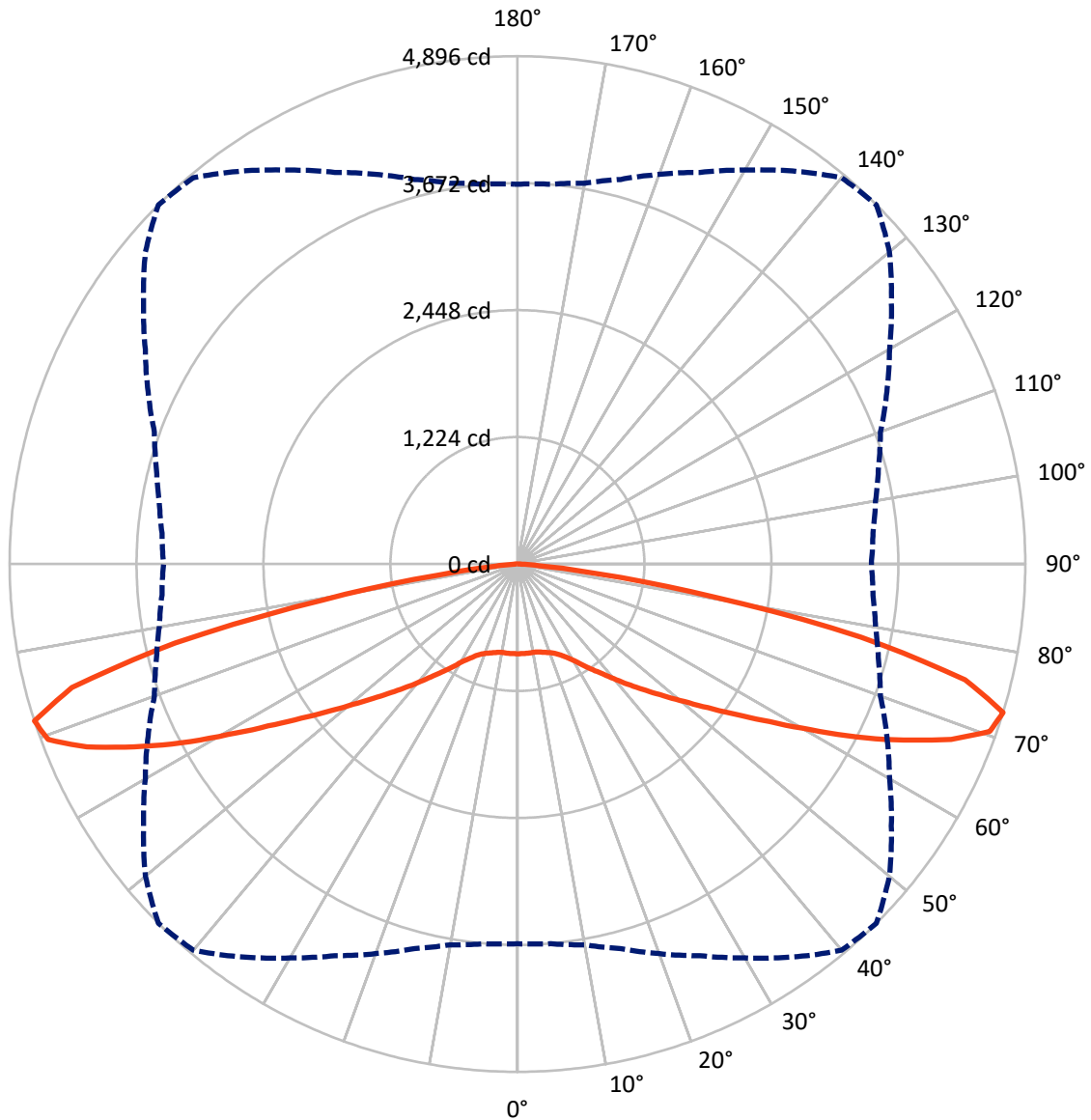


Based on 20 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	6113.2	0.0	6113.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6113.2	0.0	6113.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12226.3	0.0	12226.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	0.7
10°-20°	251.1	2.1
20°-30°	458.9	3.8
30°-40°	791.1	6.5
40°-50°	1352.4	11.1
50°-60°	2192.1	17.9
60°-70°	3636.7	29.7
70°-80°	3203.1	26.2
80°-90°	258.3	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°	12226.3	100.0
0°-180°	12226.3	100.0



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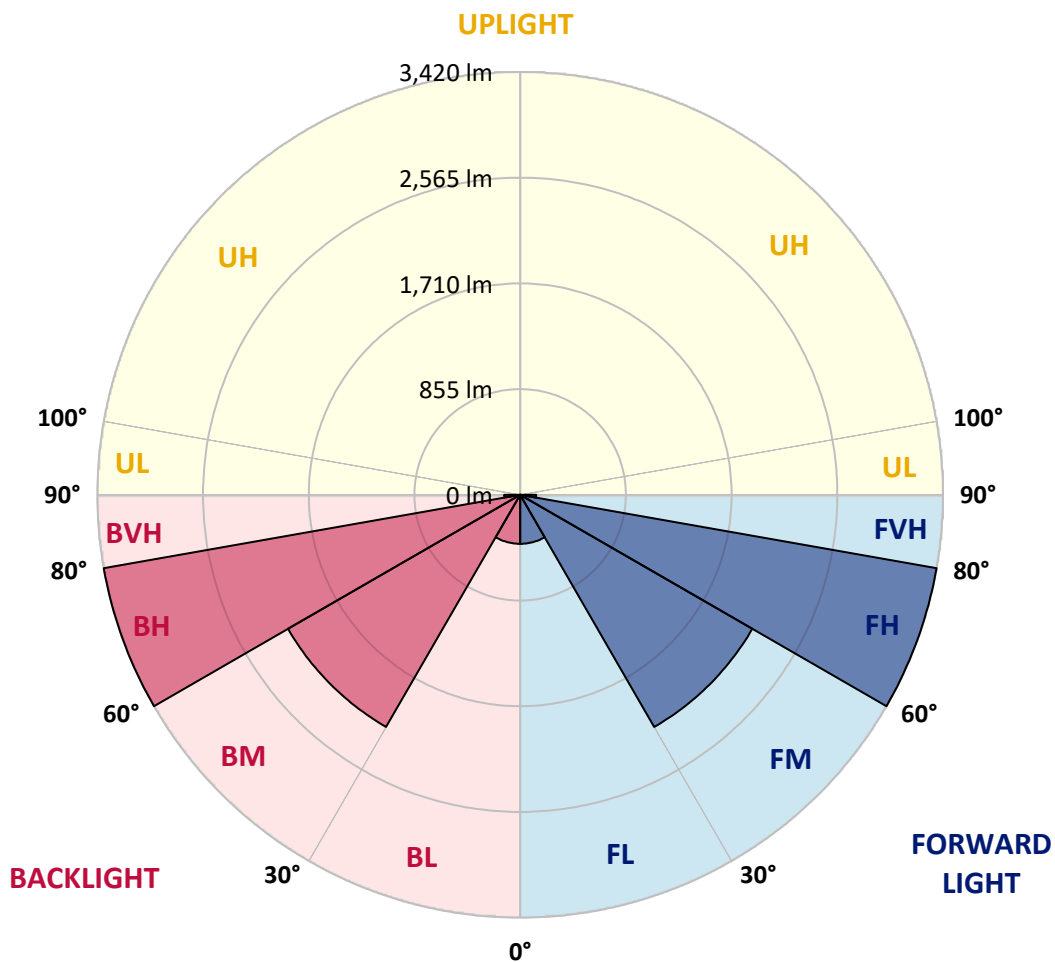
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.3	3.2			
FM (30°-60°)	2167.9	17.7			
FH (60°-80°)	3419.9	28.0			G2/5000
FVH (80°-90°)	129.1	1.1			G2/225
BL (0°-30°)	396.3	3.2	B1/500		
BM (30°-60°)	2167.9	17.7	B2/2500		
BH (60°-80°)	3419.9	28.0	B4/5000		G2/5000
BVH (80°-90°)	129.1	1.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7
2.5°	865.7	866.3	867.0	866.3	866.3	865.7	865.2	865.7	865.2	864.1	864.7
5°	868.7	869.6	869.6	868.7	869.2	868.7	867.6	868.0	867.0	865.2	865.2
7.5°	872.0	872.6	872.6	871.4	872.0	870.8	869.6	869.2	868.0	865.7	864.1
10°	877.0	877.6	877.0	875.8	875.8	874.2	871.4	870.3	868.0	864.7	863.0
12.5°	882.7	883.3	882.7	881.4	881.0	878.2	875.8	874.2	872.6	869.6	867.0
15°	890.5	891.6	890.5	888.2	886.5	884.3	883.3	883.8	884.3	882.0	879.4
17.5°	905.0	905.6	904.0	898.9	896.7	894.4	894.4	895.5	897.1	896.1	893.3
20°	932.0	930.4	926.4	920.3	917.3	913.4	912.9	913.4	913.4	912.9	910.7
22.5°	965.6	964.5	959.5	951.7	947.7	945.5	942.1	939.3	938.6	937.0	934.7
25°	1006.0	1005.5	999.3	992.5	989.8	987.0	984.2	980.2	976.8	973.0	970.7
27.5°	1057.6	1055.4	1046.3	1043.0	1039.1	1037.5	1033.5	1029.0	1026.3	1021.2	1018.4
30°	1114.3	1114.3	1106.9	1105.9	1105.9	1102.0	1097.4	1089.6	1084.6	1079.5	1077.7
32.5°	1170.9	1171.4	1164.2	1166.4	1168.1	1170.9	1172.0	1169.1	1165.8	1165.2	1161.9
35°	1252.7	1250.5	1243.3	1245.0	1244.3	1243.8	1243.8	1249.9	1251.1	1252.1	1245.4
37.5°	1354.3	1354.3	1347.0	1347.0	1343.5	1340.2	1335.7	1339.6	1345.8	1347.5	1343.1
40°	1470.3	1474.3	1465.2	1464.6	1465.9	1455.2	1450.1	1456.3	1460.3	1466.9	1461.9
42.5°	1607.2	1604.4	1595.4	1594.2	1588.1	1584.7	1580.2	1585.2	1591.4	1595.8	1597.5
45°	1738.4	1736.2	1726.1	1726.1	1719.8	1717.0	1719.3	1727.7	1730.6	1736.7	1742.8
47.5°	1867.8	1865.2	1858.4	1861.2	1861.6	1866.8	1874.0	1881.9	1889.8	1898.2	1901.0
50°	2000.3	2000.7	1993.5	2000.3	2008.6	2022.7	2042.2	2055.2	2071.4	2082.1	2085.4
52.5°	2120.8	2123.1	2130.9	2146.6	2163.4	2190.8	2224.6	2256.0	2282.9	2300.7	2299.8
55°	2265.4	2268.8	2288.0	2314.8	2342.3	2383.8	2433.7	2489.3	2534.1	2559.9	2543.6
57.5°	2450.5	2457.9	2479.1	2515.6	2556.4	2610.4	2678.7	2762.3	2831.8	2866.6	2840.3
60°	2704.5	2709.0	2734.8	2775.3	2824.5	2891.3	2982.7	3094.8	3192.9	3239.0	3208.7
62.5°	3039.3	3047.7	3068.5	3109.5	3159.9	3235.5	3347.2	3487.4	3609.6	3673.4	3605.1
65°	3439.2	3466.1	3483.4	3524.9	3572.0	3652.1	3768.8	3919.1	4050.4	4092.4	4013.4
67.5°	3835.0	3858.6	3888.9	3936.6	3984.3	4074.5	4182.7	4328.6	4472.7	4510.7	4388.0
70°	4008.2	4021.8	4068.9	4133.9	4225.3	4331.8	4456.9	4620.6	4798.9	4830.4	4674.5
72.5°	3661.2	3674.6	3727.3	3837.9	3997.1	4166.5	4384.5	4625.2	4860.6	4896.0	4681.2
75°	2769.0	2747.1	2825.1	2971.5	3186.3	3422.4	3727.3	4072.2	4412.7	4456.9	4200.7
77.5°	1431.1	1428.2	1487.1	1668.8	1925.1	2193.8	2529.5	2919.3	3252.5	3387.0	3178.5
80°	403.2	407.7	435.7	526.0	675.7	869.6	1132.1	1497.2	1769.8	1908.8	1792.2
82.5°	158.1	170.5	181.1	197.9	217.6	246.1	328.6	488.9	656.1	784.0	642.1
85°	56.7	60.5	85.8	101.5	103.1	108.8	124.0	144.6	174.5	208.0	171.0
87.5°	21.3	23.5	27.5	45.5	44.8	41.0	49.9	52.1	39.3	35.9	44.2
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°	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7
2.5°	863.6	864.1	864.1	864.7	865.2	865.2	866.3	866.3
5°	864.1	864.1	863.0	863.6	863.0	863.0	863.6	863.6
7.5°	863.0	862.5	861.4	860.8	859.7	859.7	859.7	859.7
10°	861.4	860.8	859.7	859.0	858.5	858.5	858.5	858.5
12.5°	865.7	864.1	863.0	862.5	862.5	862.5	862.5	862.5
15°	877.6	873.6	870.8	870.8	871.4	872.6	872.6	873.6
17.5°	892.1	887.6	884.9	882.7	883.8	885.4	886.5	887.6
20°	909.5	907.3	903.3	901.1	901.1	903.3	904.6	905.0
22.5°	933.7	932.0	930.4	927.5	927.5	928.6	930.9	930.9
25°	969.5	968.5	967.4	965.0	964.5	964.5	965.6	966.8
27.5°	1014.5	1014.9	1013.8	1013.3	1011.6	1011.0	1012.7	1012.2
30°	1074.5	1077.2	1080.0	1077.7	1075.0	1073.3	1071.6	1069.3
32.5°	1155.7	1152.3	1150.1	1146.1	1141.1	1136.6	1133.3	1129.3
35°	1232.6	1226.9	1224.7	1228.1	1227.5	1224.7	1220.7	1217.5
37.5°	1326.7	1325.5	1326.7	1332.9	1331.7	1334.6	1326.7	1326.2
40°	1445.6	1446.8	1454.6	1461.9	1465.9	1469.7	1465.2	1460.7
42.5°	1583.6	1583.1	1585.8	1595.8	1602.7	1607.2	1597.5	1596.5
45°	1729.3	1725.5	1727.7	1736.2	1742.8	1747.9	1737.2	1737.2
47.5°	1889.8	1883.0	1875.8	1885.3	1889.1	1892.5	1884.1	1881.3
50°	2068.6	2054.7	2039.0	2042.8	2042.8	2041.7	2031.1	2030.4
52.5°	2273.9	2248.1	2219.5	2208.8	2202.6	2195.9	2177.4	2168.5
55°	2510.0	2471.2	2426.4	2399.0	2384.3	2365.9	2335.1	2326.6
57.5°	2785.9	2725.3	2647.9	2614.2	2581.6	2551.5	2517.2	2507.7
60°	3112.7	3023.7	2921.0	2858.8	2823.5	2794.3	2759.0	2757.3
62.5°	3477.2	3336.6	3220.5	3164.4	3138.6	3112.7	3079.1	3083.6
65°	3847.9	3700.9	3592.2	3546.8	3522.8	3501.4	3467.7	3472.8
67.5°	4213.5	4078.5	3959.0	3912.4	3885.4	3858.6	3828.2	3833.3
70°	4476.0	4308.4	4173.7	4070.6	4006.1	3933.1	3886.1	3874.3
72.5°	4400.8	4142.4	3928.6	3724.1	3604.0	3506.4	3440.2	3411.7
75°	3808.6	3455.4	3180.5	2929.5	2788.1	2673.1	2589.5	2537.4
77.5°	2828.5	2431.4	2106.7	1817.5	1588.7	1435.0	1326.7	1256.6
80°	1548.3	1177.6	860.8	605.1	444.8	369.6	326.4	305.7
82.5°	482.3	311.3	229.3	197.9	184.0	176.1	163.2	142.4
85°	153.6	134.6	125.0	119.5	113.8	99.3	68.5	62.3
87.5°	59.5	61.2	60.5	57.2	58.3	42.1	33.6	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)