

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: P191590

Luminaire Tested: **GLEON-AF-02-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191590  
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-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8429 lumens  
Efficiency: N/A  
Efficacy: 127.7 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): 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

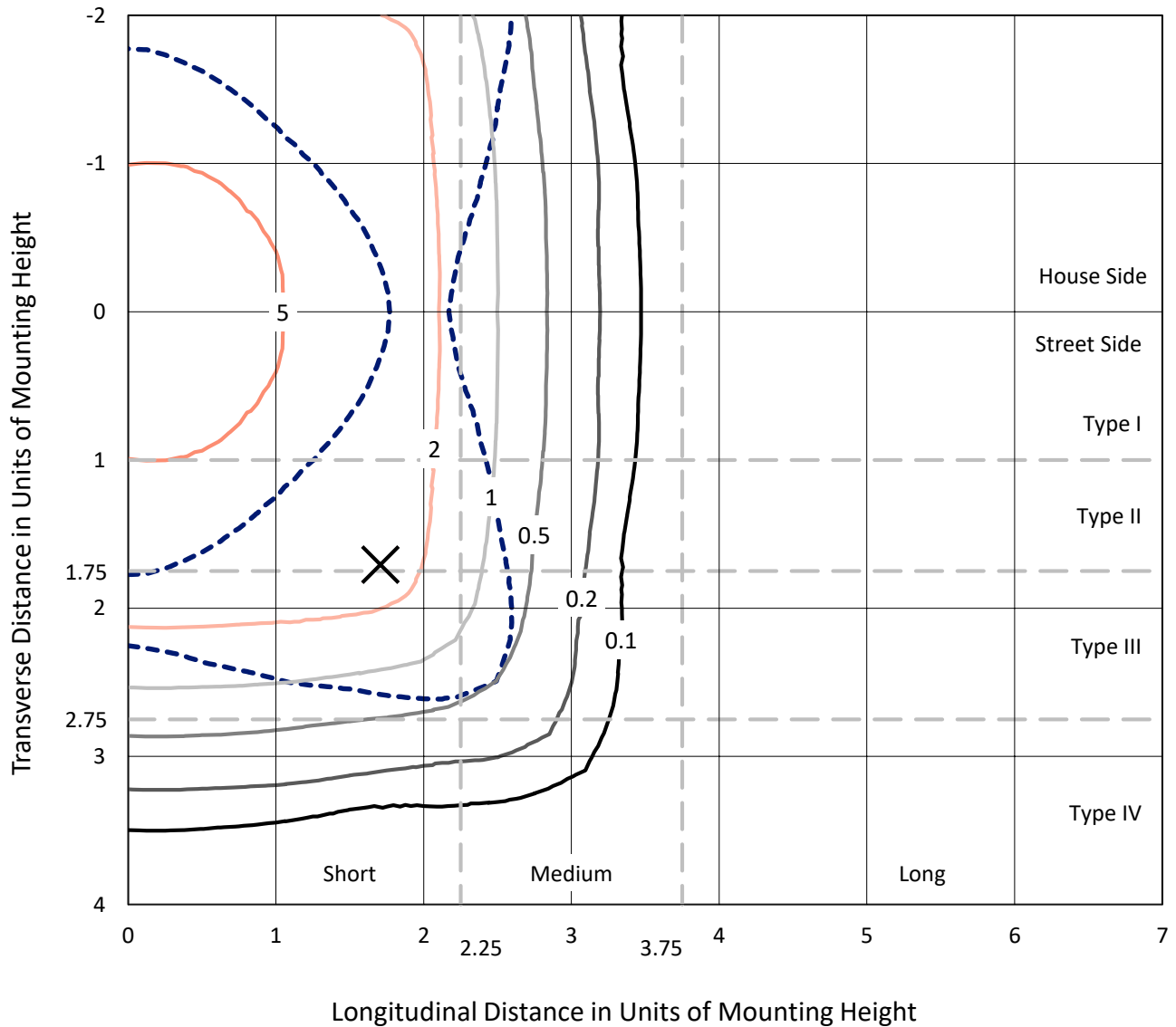


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### Iso-Footcandle Lines of Horizontal Illumination

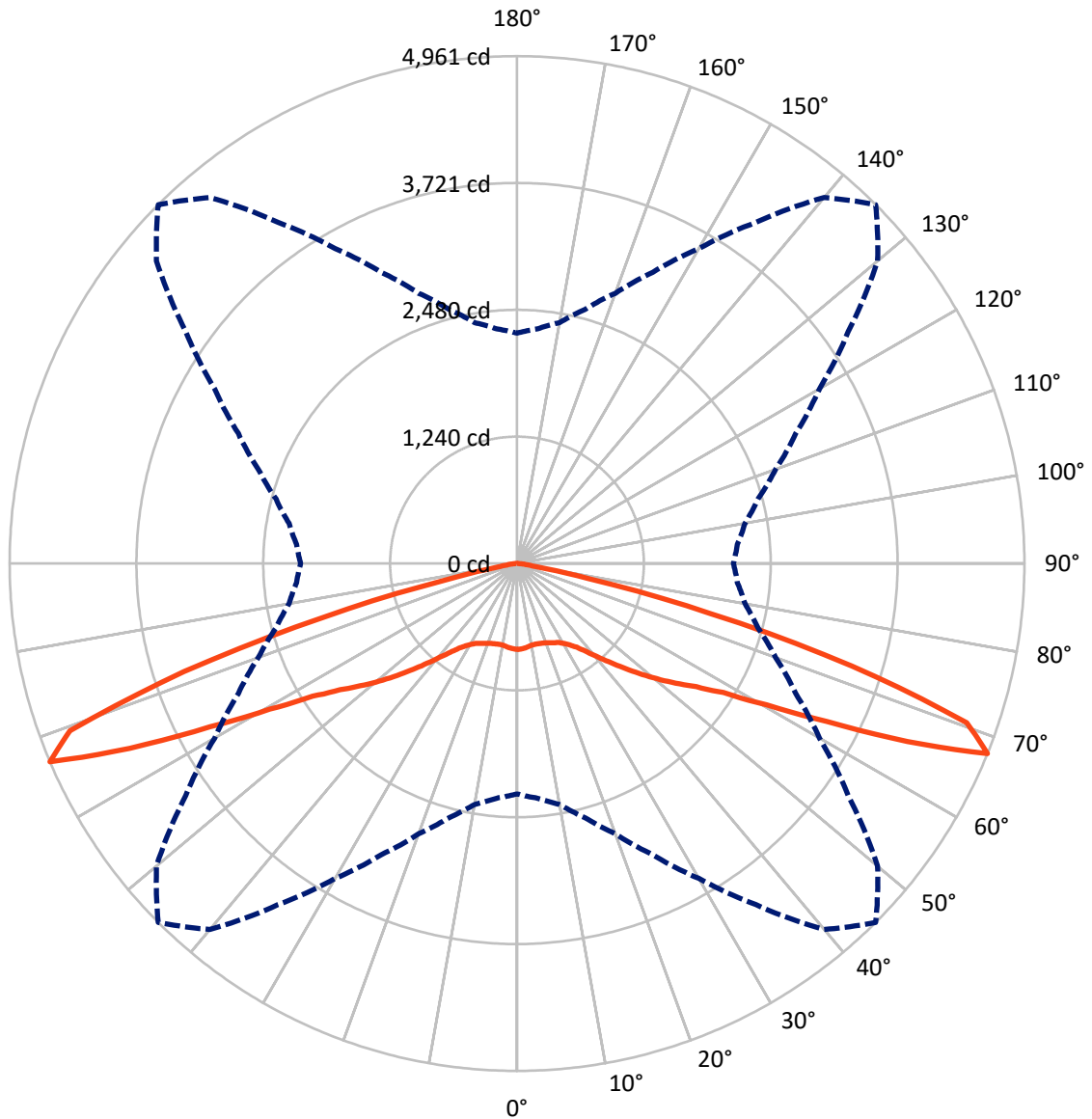
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 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	4214.5	0.0	4214.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4214.5	0.0	4214.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8429.0	0.0	8429.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	0.9
10°-20°	228.1	2.7
20°-30°	387.8	4.6
30°-40°	634.0	7.5
40°-50°	1131.8	13.4
50°-60°	1908.2	22.6
60°-70°	2961.2	35.1
70°-80°	1040.4	12.3
80°-90°	58.8	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°	8429.0	100.0
0°-180°	8429.0	100.0

**Coefficient of Utilization**



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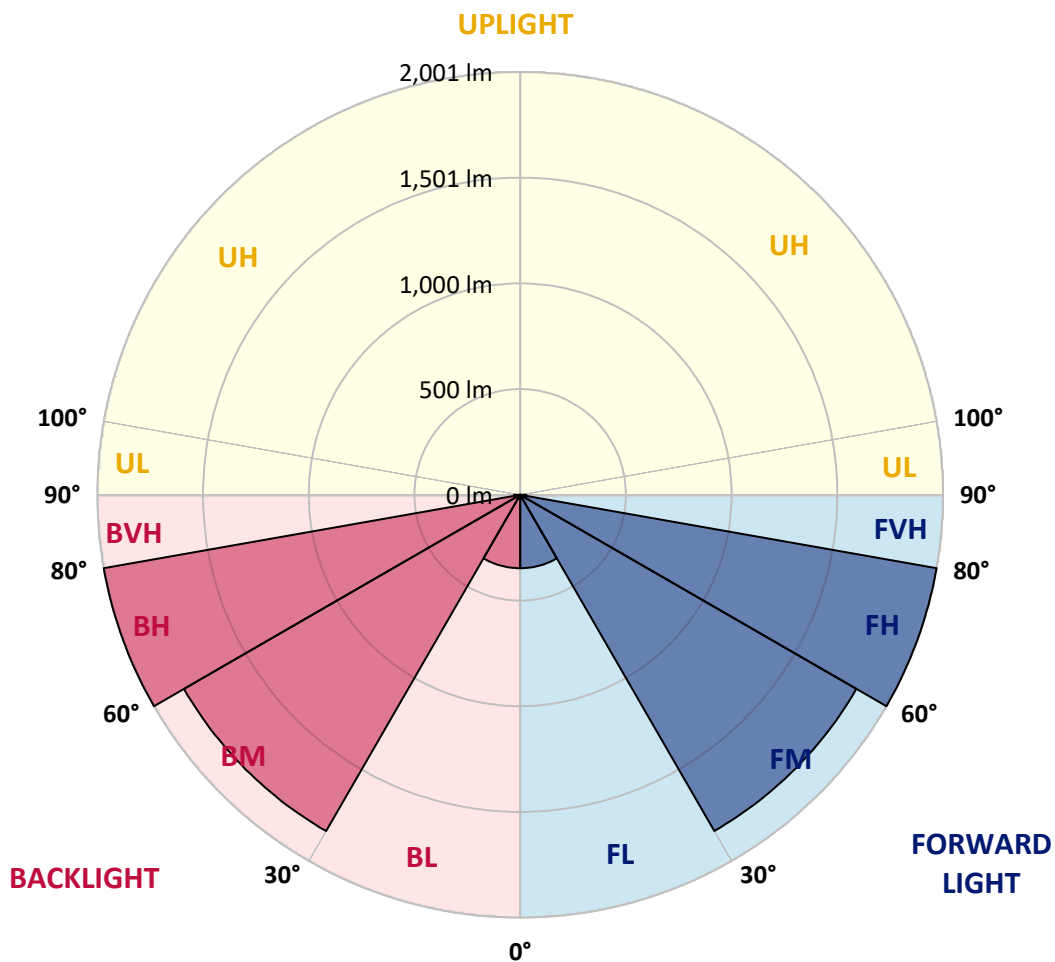
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.3	4.1			
FM	(30°-60°)	1837.0	21.8			
FH	(60°-80°)	2000.8	23.7			G2/5000
FVH	(80°-90°)	29.4	0.3			G1/100
BL	(0°-30°)	347.3	4.1	B1/500		
BM	(30°-60°)	1837.0	21.8	B2/2500		
BH	(60°-80°)	2000.8	23.7	B3/2500		G2/5000
BVH	(80°-90°)	29.4	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°	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0
2.5°	836.9	837.7	837.7	837.7	837.3	837.3	836.5	837.3	836.9	835.7	836.1
5°	829.9	830.7	830.7	830.3	831.5	831.1	829.9	830.7	830.3	829.5	829.9
7.5°	819.8	821.0	821.0	820.6	821.8	821.4	820.6	821.0	821.0	819.8	819.8
10°	808.6	809.4	809.4	809.0	810.9	810.9	810.5	811.7	812.1	810.9	810.1
12.5°	798.1	799.3	799.3	800.8	802.8	803.5	805.5	807.0	808.6	808.2	806.6
15°	791.9	792.7	794.2	796.2	799.3	802.0	805.1	808.6	811.7	812.5	810.1
17.5°	788.0	789.2	791.5	794.2	798.5	803.2	807.8	812.5	816.7	818.3	815.6
20°	786.9	787.7	790.0	794.6	800.4	807.4	814.0	819.4	825.3	827.2	825.3
22.5°	789.2	790.8	793.5	798.9	806.6	815.6	823.3	830.7	838.0	841.5	838.8
25°	799.7	801.2	804.7	811.7	820.2	829.5	838.4	847.0	853.6	857.0	855.1
27.5°	819.1	821.0	825.3	832.2	841.5	851.6	861.3	868.3	873.7	874.9	872.5
30°	848.1	852.4	857.4	865.2	876.0	884.6	894.3	900.5	907.0	907.0	905.1
32.5°	893.5	897.7	903.2	910.5	919.1	928.4	936.9	942.3	949.3	949.7	945.0
35°	961.3	963.3	967.9	972.6	980.3	988.4	995.8	999.3	1005.1	1005.5	1001.2
37.5°	1050.9	1051.2	1054.3	1055.9	1062.9	1071.8	1078.8	1081.1	1086.5	1085.7	1081.5
40°	1155.1	1157.1	1158.2	1160.6	1167.9	1176.4	1183.8	1185.0	1190.8	1189.6	1184.2
42.5°	1275.7	1276.5	1283.0	1286.5	1293.5	1297.8	1307.1	1308.2	1315.2	1312.1	1305.9
45°	1411.0	1417.9	1424.1	1431.1	1438.5	1443.5	1450.9	1449.3	1454.0	1449.3	1445.8
47.5°	1553.2	1558.3	1572.2	1583.1	1595.1	1599.3	1609.8	1605.2	1609.8	1603.2	1602.1
50°	1709.8	1718.7	1730.7	1743.2	1755.9	1762.9	1776.5	1770.7	1776.9	1770.7	1767.2
52.5°	1864.1	1866.4	1892.8	1911.0	1928.8	1937.0	1945.1	1942.4	1942.8	1942.4	1938.9
55°	2010.6	2016.0	2042.4	2067.2	2098.2	2121.1	2135.0	2133.5	2130.0	2126.5	2120.7
57.5°	2175.7	2181.2	2211.4	2242.0	2277.3	2309.9	2338.2	2367.2	2378.5	2381.6	2368.8
60°	2399.0	2398.6	2438.9	2476.2	2526.5	2575.0	2637.0	2700.2	2772.7	2806.4	2761.8
62.5°	2626.2	2635.5	2693.6	2759.5	2863.4	2964.6	3078.9	3191.3	3306.1	3399.5	3300.2
65°	2599.0	2634.7	2721.1	2870.4	3062.2	3290.2	3536.7	3797.6	4033.2	4195.3	4013.5
67.5°	2252.5	2303.3	2391.3	2572.7	2812.6	3141.3	3555.3	4071.2	4670.9	4960.8	4601.5
70°	1632.7	1690.0	1782.3	1959.4	2197.1	2509.5	2959.1	3578.6	4372.4	4664.7	4268.9
72.5°	812.5	843.5	900.5	1013.3	1193.1	1446.6	1854.4	2449.8	3152.2	3420.4	3058.8
75°	276.0	290.3	300.0	336.8	393.8	493.4	696.2	1071.0	1633.8	1958.7	1610.6
77.5°	159.3	159.7	166.3	172.9	182.6	193.4	220.6	289.6	500.8	711.3	518.3
80°	103.1	102.7	108.1	113.2	119.8	125.2	126.8	134.1	154.7	183.3	164.0
82.5°	53.5	60.1	72.1	78.7	91.1	93.4	90.3	87.6	92.6	96.1	98.5
85°	29.5	25.6	38.4	49.6	55.0	55.8	55.8	52.7	54.7	53.5	58.1
87.5°	13.6	12.4	15.1	24.4	26.0	22.1	23.3	20.5	14.7	14.3	16.3
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°	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0
2.5°	836.1	836.5	836.5	837.7	838.0	838.8	839.6	840.0
5°	829.5	830.7	829.9	831.1	831.1	831.8	831.8	832.2
7.5°	819.8	821.0	821.0	821.0	820.6	821.8	821.8	821.8
10°	809.8	810.5	810.1	809.4	808.6	809.8	809.4	809.0
12.5°	806.6	804.7	803.2	802.4	800.8	801.2	800.1	800.1
15°	808.6	805.1	802.4	801.2	799.7	798.9	798.1	798.5
17.5°	813.6	809.4	805.9	803.9	802.0	800.8	799.3	799.7
20°	822.5	817.5	812.5	808.6	805.1	803.2	802.0	801.6
22.5°	835.7	828.4	821.0	815.2	810.5	807.8	806.6	805.9
25°	850.8	842.7	834.2	827.6	822.9	819.4	817.1	817.1
27.5°	869.8	863.2	855.5	847.7	843.5	840.0	838.4	837.7
30°	901.6	895.4	889.2	881.8	876.4	872.9	870.2	867.9
32.5°	942.3	937.3	932.2	926.8	921.8	917.1	912.9	910.9
35°	999.7	995.8	992.3	986.1	984.2	981.5	979.1	977.2
37.5°	1078.8	1077.2	1077.2	1070.6	1069.1	1067.9	1065.6	1066.0
40°	1182.6	1184.2	1182.3	1179.9	1178.8	1175.7	1175.7	1178.4
42.5°	1305.5	1306.7	1311.0	1307.1	1311.3	1307.5	1305.1	1307.1
45°	1448.2	1452.4	1461.0	1457.1	1459.8	1453.2	1445.1	1445.5
47.5°	1608.3	1612.1	1615.6	1612.9	1613.3	1602.4	1591.6	1588.9
50°	1774.6	1776.1	1778.0	1774.2	1774.9	1762.9	1750.5	1750.9
52.5°	1938.9	1946.3	1954.0	1943.6	1941.2	1927.7	1910.2	1903.2
55°	2126.9	2137.4	2128.5	2110.2	2092.0	2073.8	2050.9	2047.1
57.5°	2358.7	2340.9	2313.0	2278.5	2253.3	2227.7	2204.4	2194.7
60°	2681.2	2614.1	2563.8	2512.6	2480.4	2449.0	2418.4	2413.7
62.5°	3137.1	3021.2	2920.8	2814.9	2728.5	2661.1	2607.2	2592.1
65°	3708.4	3434.4	3196.8	2975.0	2782.4	2637.0	2545.5	2505.2
67.5°	3954.2	3413.0	3005.7	2690.9	2438.9	2263.0	2164.1	2114.9
70°	3474.7	2830.4	2387.4	2072.2	1842.8	1655.2	1565.6	1512.9
72.5°	2390.5	1800.5	1423.8	1162.1	978.8	821.8	759.7	755.1
75°	1073.3	710.9	490.0	377.5	317.9	276.4	263.6	253.9
77.5°	300.4	222.1	198.1	185.3	172.9	158.5	153.1	154.3
80°	146.1	138.0	132.6	124.4	113.2	101.2	95.7	98.1
82.5°	96.9	95.7	99.2	93.4	77.1	65.5	55.0	50.4
85°	58.9	59.7	60.9	61.2	51.9	36.4	24.8	27.9
87.5°	23.3	26.7	29.1	30.2	28.3	17.4	14.0	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)