

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: P193340

Luminaire Tested: **GLEON-AF-02-LED-E1-5MQ-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193340  
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-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 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: 8435 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

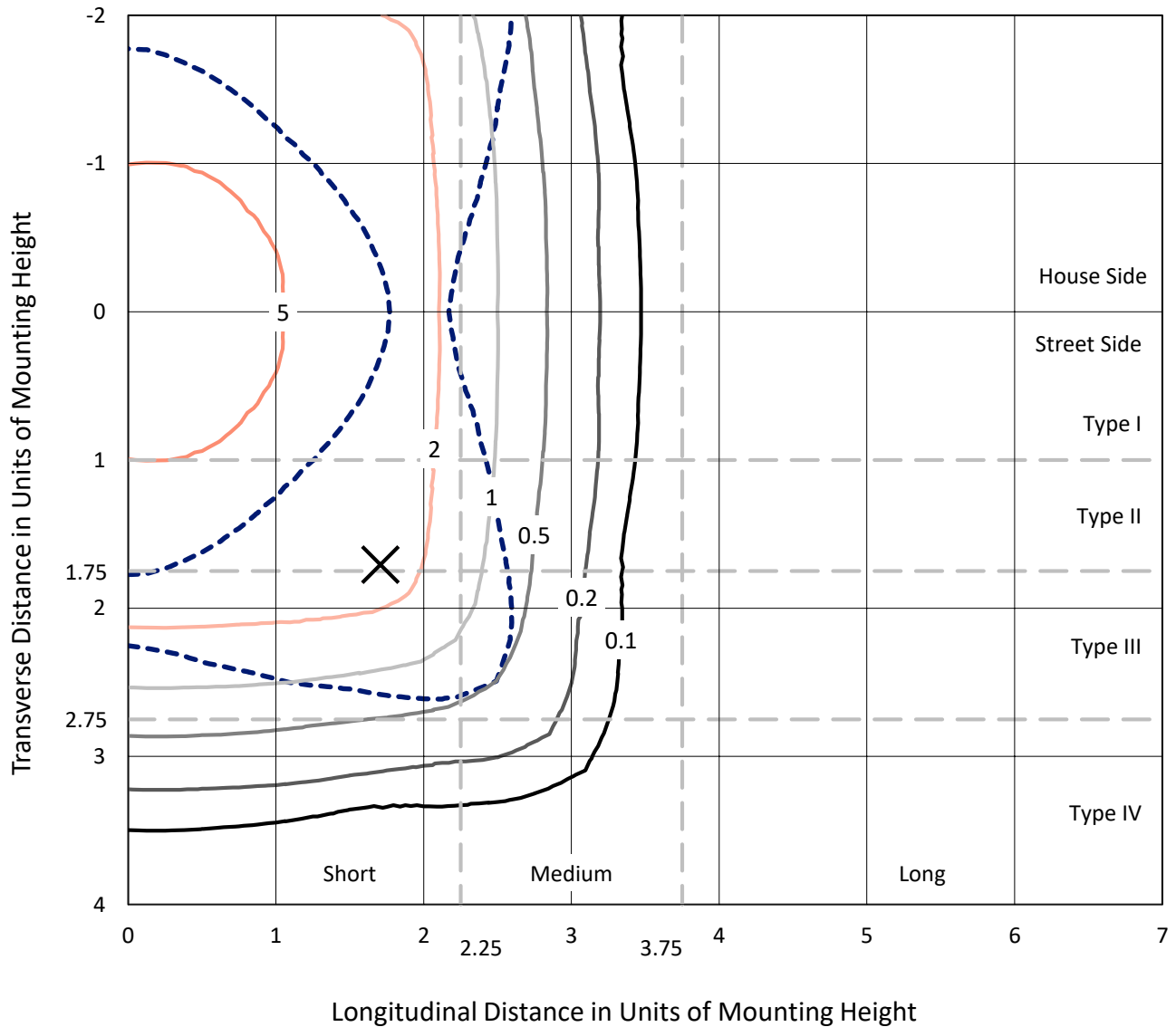


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### Iso-Footcandle Lines of Horizontal Illumination

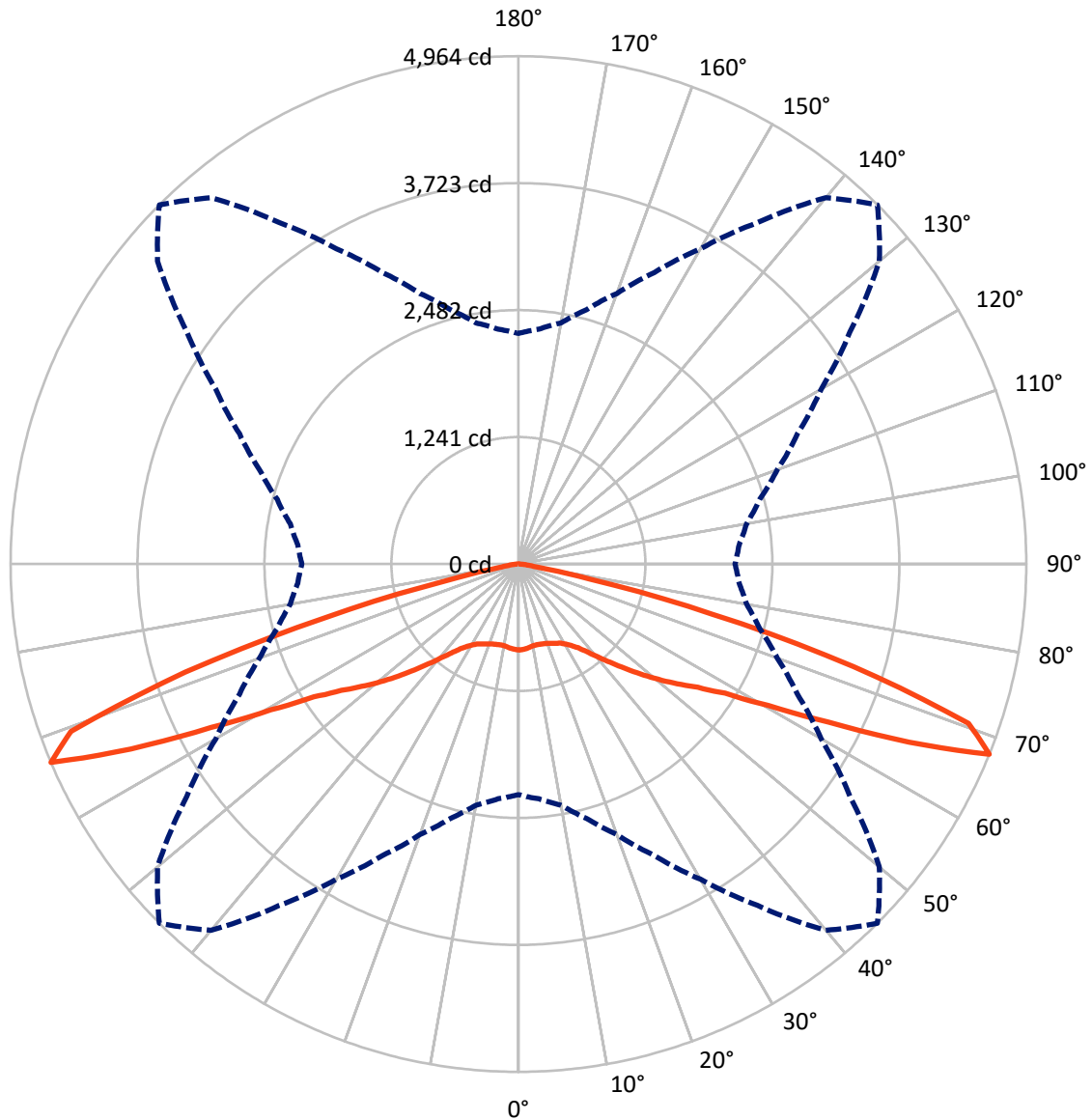
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 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	4217.5	0.0	4217.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4217.5	0.0	4217.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8435.0	0.0	8435.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	0.9
10°-20°	228.3	2.7
20°-30°	388.1	4.6
30°-40°	634.4	7.5
40°-50°	1132.6	13.4
50°-60°	1909.6	22.6
60°-70°	2963.3	35.1
70°-80°	1041.2	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°	8435.0	100.0
0°-180°	8435.0	100.0

**Coefficient of Utilization**



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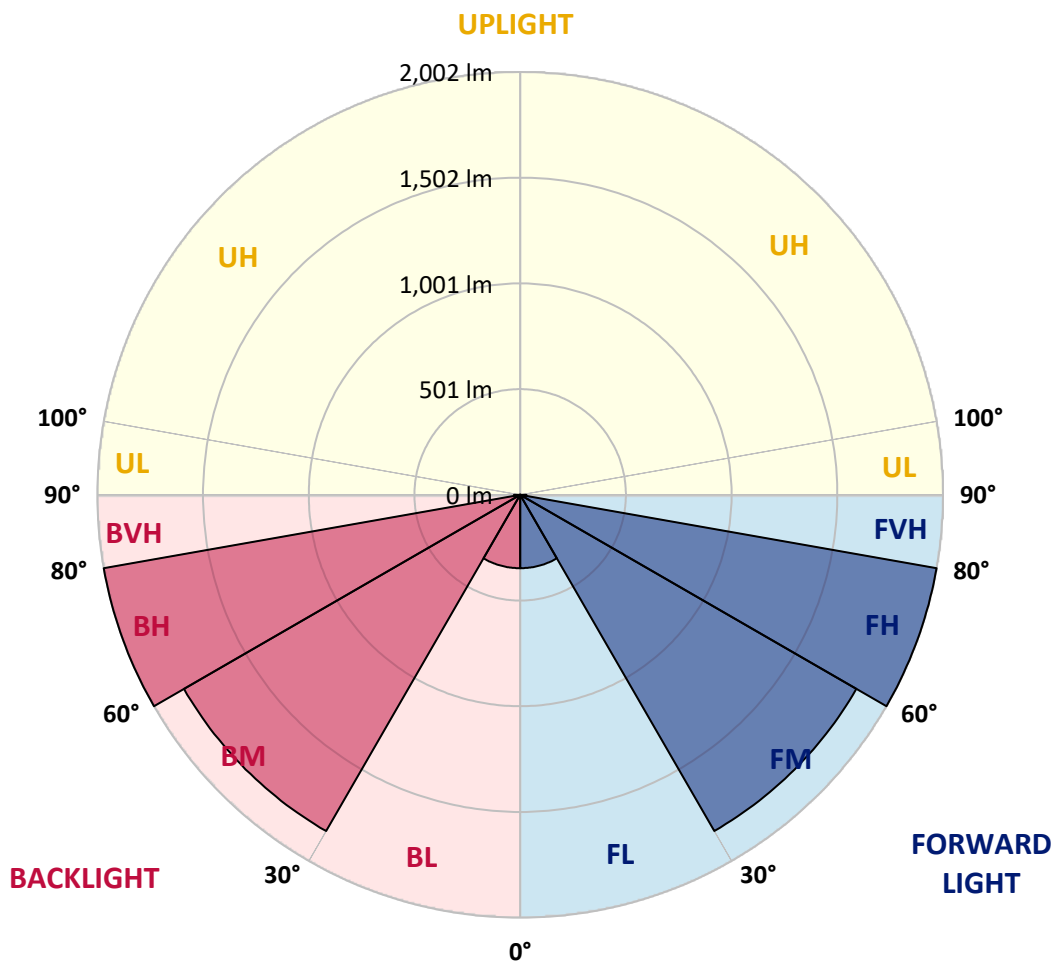
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.5	4.1			
FM	(30°-60°)	1838.3	21.8			
FH	(60°-80°)	2002.3	23.7			G2/5000
FVH	(80°-90°)	29.4	0.3			G1/100
BL	(0°-30°)	347.5	4.1	B1/500		
BM	(30°-60°)	1838.3	21.8	B2/2500		
BH	(60°-80°)	2002.3	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°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	837.5	838.3	838.3	838.3	837.9	837.9	837.1	837.9	837.5	836.3	836.7
5°	830.5	831.3	831.3	830.9	832.0	831.7	830.5	831.3	830.9	830.1	830.5
7.5°	820.4	821.6	821.6	821.2	822.4	822.0	821.2	821.6	821.6	820.4	820.4
10°	809.2	809.9	809.9	809.6	811.5	811.5	811.1	812.3	812.7	811.5	810.7
12.5°	798.7	799.9	799.9	801.4	803.3	804.1	806.1	807.6	809.2	808.8	807.2
15°	792.5	793.3	794.8	796.8	799.9	802.6	805.7	809.2	812.3	813.0	810.7
17.5°	788.6	789.8	792.1	794.8	799.1	803.7	808.4	813.0	817.3	818.9	816.1
20°	787.4	788.2	790.5	795.2	801.0	808.0	814.6	820.0	825.8	827.8	825.8
22.5°	789.8	791.3	794.0	799.5	807.2	816.1	823.9	831.3	838.6	842.1	839.4
25°	800.2	801.8	805.3	812.3	820.8	830.1	839.0	847.6	854.2	857.7	855.7
27.5°	819.6	821.6	825.8	832.8	842.1	852.2	861.9	868.9	874.3	875.5	873.2
30°	848.7	853.0	858.0	865.8	876.7	885.2	894.9	901.1	907.7	907.7	905.8
32.5°	894.1	898.4	903.8	911.2	919.7	929.0	937.6	943.0	950.0	950.4	945.7
35°	962.0	963.9	968.6	973.2	981.0	989.1	996.5	1000.0	1005.8	1006.2	1002.0
37.5°	1051.6	1052.0	1055.1	1056.6	1063.6	1072.5	1079.5	1081.9	1087.3	1086.5	1082.2
40°	1155.9	1157.9	1159.1	1161.4	1168.7	1177.3	1184.7	1185.8	1191.6	1190.5	1185.0
42.5°	1276.6	1277.4	1284.0	1287.4	1294.4	1298.7	1308.0	1309.2	1316.2	1313.0	1306.8
45°	1412.0	1418.9	1425.2	1432.1	1439.5	1444.5	1451.9	1450.4	1455.0	1450.4	1446.9
47.5°	1554.3	1559.4	1573.3	1584.2	1596.2	1600.5	1611.0	1606.3	1611.0	1604.4	1603.2
50°	1711.0	1720.0	1732.0	1744.4	1757.2	1764.2	1777.8	1771.9	1778.1	1771.9	1768.4
52.5°	1865.4	1867.7	1894.1	1912.4	1930.2	1938.3	1946.5	1943.8	1944.2	1943.8	1940.3
55°	2012.0	2017.5	2043.9	2068.7	2099.7	2122.6	2136.6	2135.0	2131.5	2128.0	2122.2
57.5°	2177.3	2182.7	2213.0	2243.6	2278.9	2311.5	2339.8	2368.9	2380.2	2383.3	2370.5
60°	2400.7	2400.3	2440.7	2477.9	2528.3	2576.8	2638.9	2702.1	2774.7	2808.4	2763.8
62.5°	2628.0	2637.3	2695.5	2761.5	2865.4	2966.7	3081.1	3193.6	3308.4	3401.9	3302.6
65°	2600.9	2636.6	2723.1	2872.4	3064.4	3292.5	3539.2	3800.3	4036.1	4198.3	4016.3
67.5°	2254.1	2304.9	2393.0	2574.5	2814.6	3143.6	3557.8	4074.1	4674.2	4964.4	4604.8
70°	1633.8	1691.3	1783.6	1960.8	2198.6	2511.3	2961.2	3581.1	4375.5	4668.0	4272.0
72.5°	813.0	844.1	901.1	1014.0	1194.0	1447.6	1855.7	2451.5	3154.4	3422.8	3060.9
75°	276.2	290.5	300.2	337.1	394.1	493.8	696.7	1071.8	1635.0	1960.1	1611.7
77.5°	159.4	159.8	166.4	173.0	182.7	193.6	220.7	289.8	501.2	711.8	518.6
80°	103.2	102.8	108.2	113.3	119.9	125.3	126.8	134.2	154.8	183.5	164.1
82.5°	53.5	60.1	72.1	78.7	91.2	93.5	90.4	87.7	92.7	96.2	98.5
85°	29.5	25.6	38.4	49.7	55.1	55.9	55.9	52.8	54.7	53.5	58.2
87.5°	13.6	12.4	15.1	24.4	26.0	22.1	23.3	20.6	14.7	14.4	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°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	836.7	837.1	837.1	838.3	838.6	839.4	840.2	840.6
5°	830.1	831.3	830.5	831.7	831.7	832.4	832.4	832.8
7.5°	820.4	821.6	821.6	821.6	821.2	822.4	822.4	822.4
10°	810.3	811.1	810.7	809.9	809.2	810.3	809.9	809.6
12.5°	807.2	805.3	803.7	803.0	801.4	801.8	800.6	800.6
15°	809.2	805.7	803.0	801.8	800.2	799.5	798.7	799.1
17.5°	814.2	809.9	806.4	804.5	802.6	801.4	799.9	800.2
20°	823.1	818.1	813.0	809.2	805.7	803.7	802.6	802.2
22.5°	836.3	828.9	821.6	815.8	811.1	808.4	807.2	806.4
25°	851.4	843.3	834.8	828.2	823.5	820.0	817.7	817.7
27.5°	870.5	863.9	856.1	848.3	844.1	840.6	839.0	838.3
30°	902.3	896.1	889.8	882.5	877.0	873.6	870.8	868.5
32.5°	943.0	937.9	932.9	927.5	922.4	917.8	913.5	911.6
35°	1000.4	996.5	993.0	986.8	984.9	982.2	979.8	977.9
37.5°	1079.5	1078.0	1078.0	1071.4	1069.8	1068.7	1066.3	1066.7
40°	1183.5	1185.0	1183.1	1180.8	1179.6	1176.5	1176.5	1179.2
42.5°	1306.5	1307.6	1311.9	1308.0	1312.3	1308.4	1306.1	1308.0
45°	1449.2	1453.5	1462.0	1458.1	1460.8	1454.2	1446.1	1446.5
47.5°	1609.4	1613.3	1616.8	1614.1	1614.4	1603.6	1592.7	1590.0
50°	1775.8	1777.4	1779.3	1775.4	1776.2	1764.2	1751.8	1752.2
52.5°	1940.3	1947.7	1955.4	1944.9	1942.6	1929.0	1911.6	1904.6
55°	2128.4	2138.9	2130.0	2111.7	2093.5	2075.3	2052.4	2048.5
57.5°	2360.4	2342.5	2314.6	2280.1	2254.9	2229.3	2206.0	2196.3
60°	2683.1	2616.0	2565.6	2514.4	2482.2	2450.8	2420.1	2415.5
62.5°	3139.3	3023.3	2922.8	2816.9	2730.4	2662.9	2609.0	2593.9
65°	3711.1	3436.8	3199.0	2977.1	2784.4	2638.9	2547.4	2507.0
67.5°	3957.0	3415.5	3007.8	2692.8	2440.7	2264.6	2165.7	2116.4
70°	3477.2	2832.5	2389.1	2073.7	1844.1	1656.3	1566.7	1514.0
72.5°	2392.2	1801.8	1424.8	1162.9	979.5	822.4	760.3	755.6
75°	1074.1	711.4	490.3	377.8	318.1	276.6	263.8	254.1
77.5°	300.6	222.3	198.2	185.4	173.0	158.7	153.2	154.4
80°	146.2	138.1	132.7	124.5	113.3	101.2	95.8	98.1
82.5°	97.0	95.8	99.3	93.5	77.2	65.6	55.1	50.4
85°	59.0	59.7	60.9	61.3	52.0	36.5	24.8	27.9
87.5°	23.3	26.8	29.1	30.3	28.3	17.5	14.0	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)