

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: STREETWORKS

Report Number: P266662

Luminaire Tested: **GAN-AF-02-LED-U-RW-7027-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-RW-7027-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8738.1 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G1

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: 28.75 FT

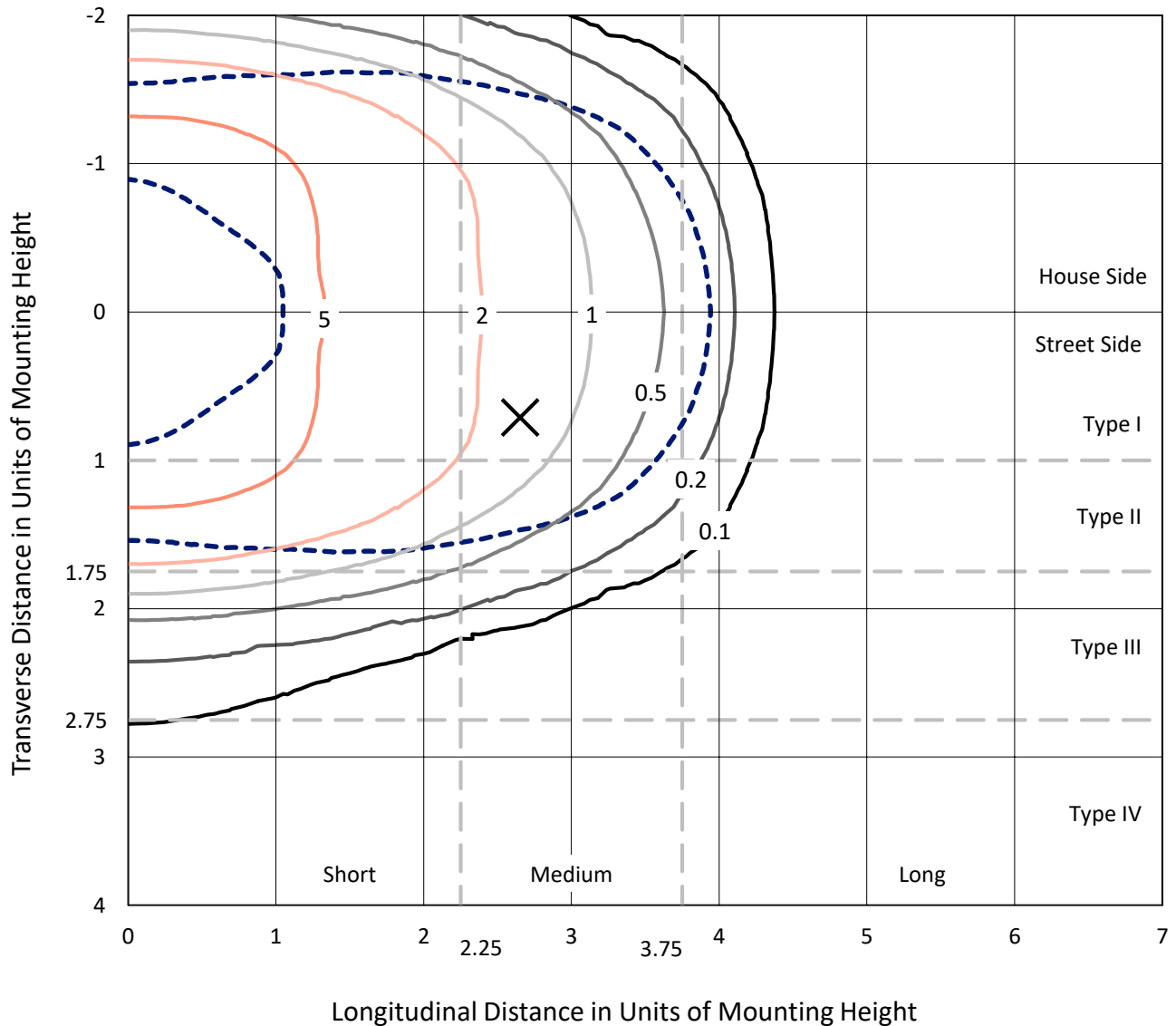


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

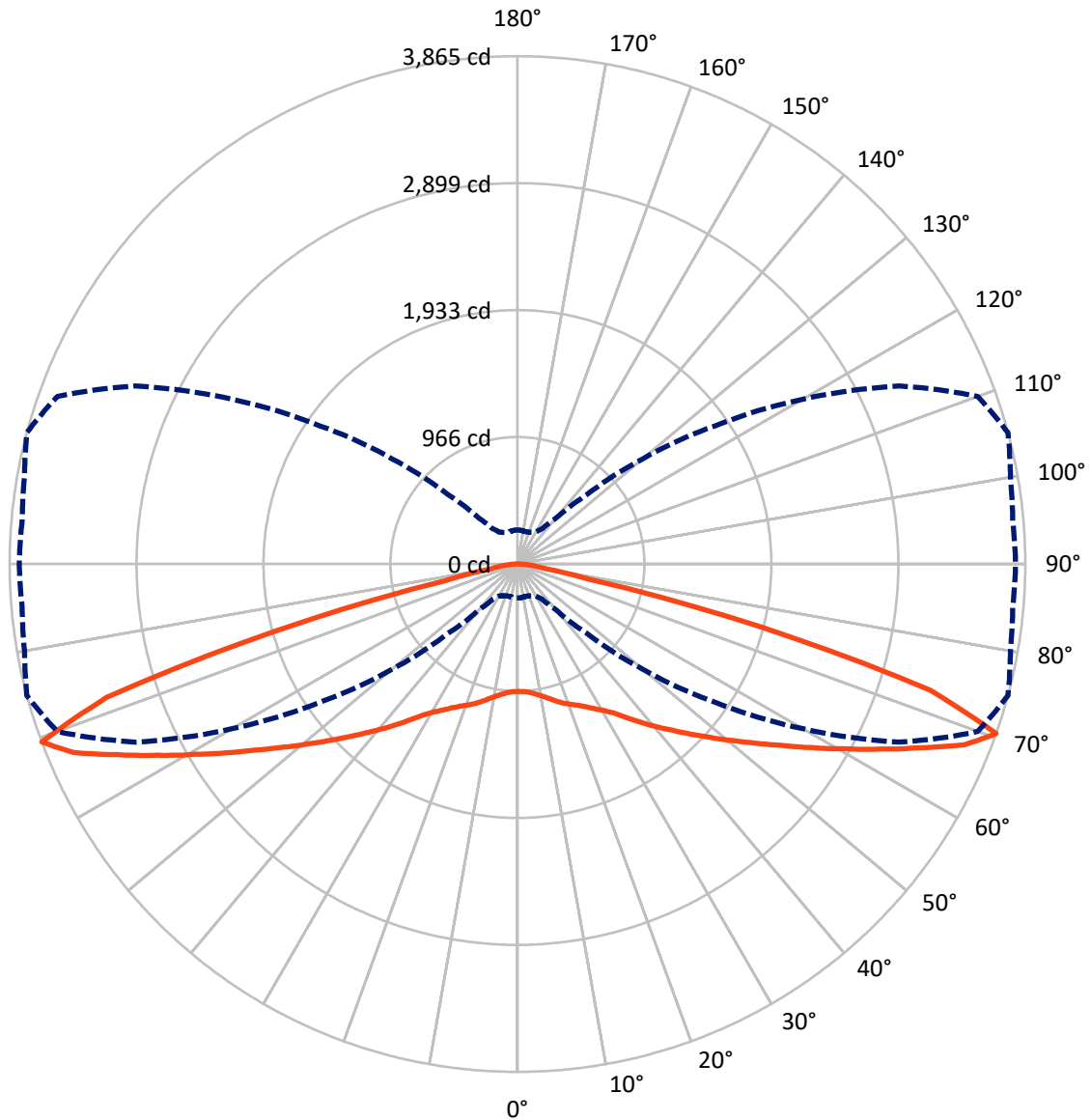


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4369.1	0.0	4369.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4369.1	0.0	4369.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8738.1	0.0	8738.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.0	1.1
10°-20°	288.8	3.3
20°-30°	543.6	6.2
30°-40°	962.7	11.0
40°-50°	1609.9	18.4
50°-60°	2243.4	25.7
60°-70°	2080.4	23.8
70°-80°	829.1	9.5
80°-90°	87.2	1.0
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°	8738.1	100.0
0°-180°	8738.1	100.0



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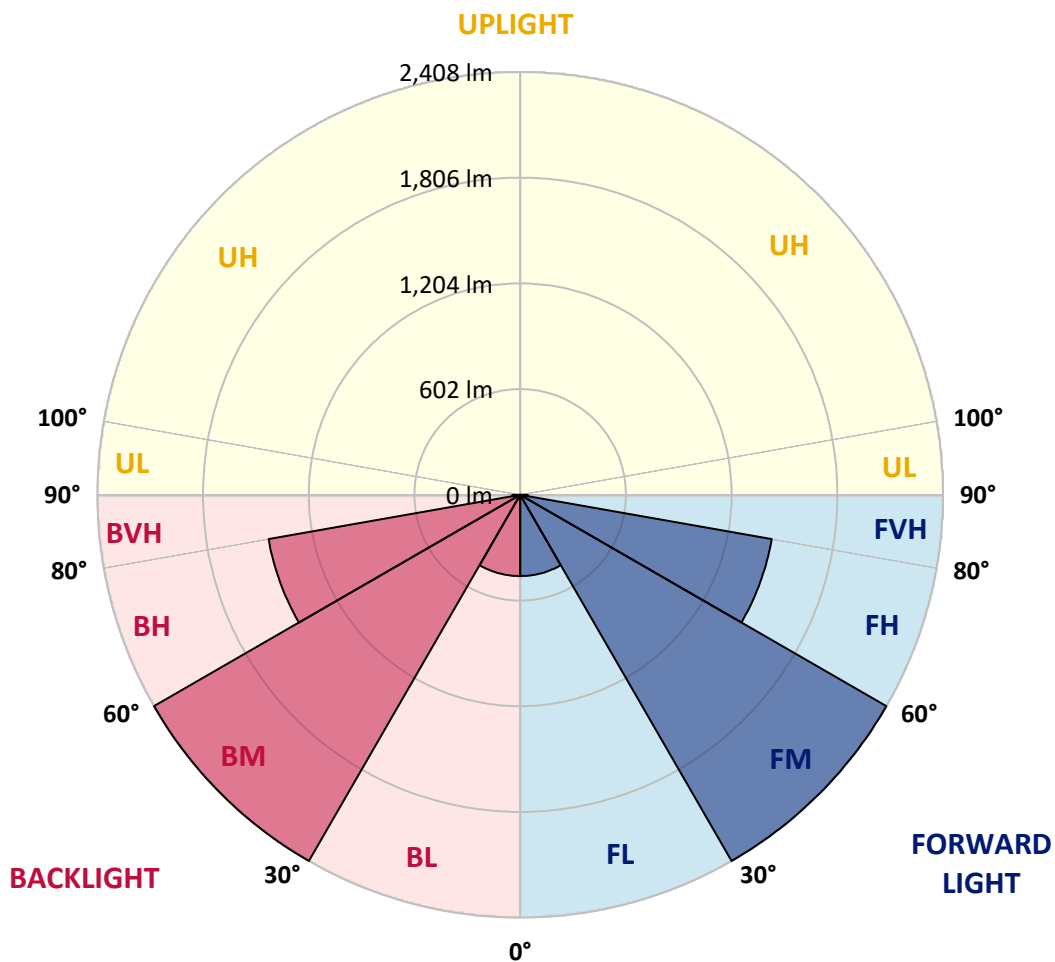
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	462.7	5.3			
FM	(30°-60°)	2408.0	27.6			
FH	(60°-80°)	1454.8	16.6			G1/1800
FVH	(80°-90°)	43.6	0.5			G1/100
BL	(0°-30°)	462.7	5.3	B1/500		
BM	(30°-60°)	2408.0	27.6	B2/2500		
BH	(60°-80°)	1454.8	16.6	B3/2500		G1/1800
BVH	(80°-90°)	43.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	969.4	969.4	969.4	969.4	969.4	969.4	969.4	969.4	969.4	969.4	969.4
2.5°	967.7	966.8	967.7	967.1	968.1	968.1	968.8	970.4	970.4	971.7	971.3
5°	958.1	957.8	958.9	960.2	961.5	963.9	966.3	970.1	973.0	975.0	977.0
7.5°	939.5	939.5	941.2	944.1	947.0	952.4	958.1	965.6	973.0	979.2	984.5
10°	924.3	925.1	927.1	932.1	937.0	945.2	953.1	963.9	974.2	984.5	992.7
12.5°	915.2	916.5	920.1	927.6	935.9	947.0	958.9	972.5	984.2	996.5	1004.8
15°	918.1	918.8	924.3	933.2	944.1	958.1	974.2	990.3	1003.9	1017.2	1028.3
17.5°	934.1	935.3	941.7	951.9	963.1	979.6	996.8	1015.2	1032.1	1047.0	1060.4
20°	963.1	964.3	972.1	983.4	996.5	1013.5	1030.7	1049.8	1068.9	1084.4	1099.7
22.5°	1003.9	1006.0	1013.5	1024.5	1039.5	1057.7	1078.2	1098.5	1116.8	1131.1	1144.8
25°	1057.7	1062.2	1069.3	1081.6	1097.3	1113.8	1136.0	1156.7	1174.2	1187.6	1197.6
27.5°	1133.7	1139.8	1145.2	1157.1	1172.5	1188.2	1210.5	1228.6	1245.1	1258.3	1265.8
30°	1234.5	1240.6	1245.9	1257.4	1271.6	1286.5	1307.6	1323.7	1334.0	1344.3	1343.9
32.5°	1356.6	1363.3	1365.3	1377.7	1392.2	1408.3	1427.2	1436.3	1444.7	1445.8	1438.4
35°	1493.3	1496.7	1504.9	1521.4	1538.0	1551.2	1569.2	1573.9	1573.9	1567.6	1551.2
37.5°	1643.2	1645.3	1656.8	1675.5	1692.3	1706.1	1718.4	1727.5	1722.9	1709.7	1682.0
40°	1807.6	1811.3	1827.8	1844.4	1863.4	1876.2	1889.3	1891.0	1886.5	1867.0	1829.5
42.5°	1964.6	1967.8	1984.4	2010.3	2035.2	2052.9	2065.4	2067.8	2053.3	2035.6	1988.8
45°	2099.6	2108.2	2129.7	2160.3	2196.3	2221.4	2238.3	2245.4	2232.6	2209.4	2155.4
47.5°	2206.5	2215.2	2245.9	2282.1	2326.7	2367.7	2395.7	2410.5	2407.3	2389.9	2330.8
50°	2285.0	2293.3	2326.3	2370.8	2423.0	2473.8	2521.6	2557.1	2569.5	2561.6	2507.6
52.5°	2294.1	2307.7	2346.6	2406.4	2474.1	2543.6	2611.7	2672.0	2712.8	2719.1	2678.9
55°	2167.3	2180.9	2234.7	2323.5	2424.2	2537.4	2646.3	2747.9	2828.6	2869.7	2848.7
57.5°	1868.4	1892.6	1949.2	2053.3	2201.6	2370.8	2544.8	2725.3	2889.2	2998.6	3019.7
60°	1431.8	1460.7	1517.6	1628.4	1793.6	1995.6	2227.5	2494.5	2783.8	3030.1	3177.0
62.5°	918.4	945.7	1005.7	1101.9	1236.4	1455.3	1704.4	2021.1	2410.2	2798.8	3149.0
65°	472.0	486.9	518.3	576.5	681.5	844.9	1068.4	1384.3	1829.0	2308.6	2814.8
67.5°	299.0	301.9	308.8	317.2	344.1	400.6	504.7	701.7	1067.5	1567.6	2160.3
70°	258.5	258.5	255.2	254.0	257.3	265.1	281.2	327.2	450.6	744.2	1245.9
72.5°	236.7	234.2	228.3	223.9	223.0	223.0	226.4	233.3	253.1	303.1	487.7
75°	218.1	211.0	203.1	197.7	195.7	193.7	193.2	194.6	198.6	206.5	232.9
77.5°	195.3	186.3	177.1	171.8	169.3	166.5	163.9	161.1	159.0	161.4	173.1
80°	168.2	157.7	150.7	147.4	144.9	140.9	135.5	130.6	125.9	125.1	132.1
82.5°	135.5	123.4	123.8	125.1	120.6	114.9	109.1	103.7	95.8	91.6	95.8
85°	109.5	103.2	100.3	108.2	101.6	93.0	83.8	74.3	62.0	52.0	56.6
87.5°	42.5	42.5	63.6	97.8	87.9	71.9	61.5	52.5	32.6	25.2	25.6
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°	969.4	969.4	969.4	969.4	969.4	969.4	969.4	969.4
2.5°	970.9	971.7	971.3	970.9	970.9	970.4	970.9	970.9
5°	978.3	980.4	980.4	981.3	981.3	981.7	982.0	981.7
7.5°	989.6	993.3	995.7	998.6	998.9	999.5	1000.3	999.5
10°	1000.6	1008.1	1013.5	1018.8	1021.4	1022.1	1023.0	1023.0
12.5°	1014.6	1025.1	1034.5	1044.0	1048.5	1051.0	1051.0	1052.6
15°	1037.8	1048.1	1059.3	1072.0	1079.9	1084.1	1085.3	1085.3
17.5°	1070.4	1079.6	1089.0	1101.4	1111.4	1116.8	1117.9	1117.5
20°	1108.5	1117.1	1122.5	1130.3	1139.1	1145.2	1146.9	1146.9
22.5°	1151.7	1156.7	1157.6	1160.0	1167.1	1175.3	1179.0	1179.8
25°	1199.6	1200.9	1197.6	1197.6	1202.2	1210.0	1213.7	1214.1
27.5°	1261.7	1255.4	1247.1	1244.3	1247.1	1256.3	1260.9	1262.5
30°	1338.8	1324.0	1305.0	1294.6	1293.0	1305.0	1313.3	1314.5
32.5°	1427.2	1405.8	1380.5	1359.6	1354.1	1361.7	1371.5	1371.2
35°	1532.1	1506.5	1475.9	1449.1	1436.7	1444.1	1458.2	1459.8
37.5°	1653.2	1619.7	1584.6	1550.7	1531.3	1533.3	1548.3	1553.2
40°	1788.2	1744.9	1700.6	1655.2	1627.5	1622.2	1640.3	1643.2
42.5°	1932.8	1877.0	1821.3	1765.1	1729.5	1721.3	1742.4	1741.2
45°	2086.9	2015.7	1950.5	1888.5	1846.5	1834.0	1851.3	1851.3
47.5°	2252.4	2164.8	2087.2	2017.0	1971.2	1953.4	1970.0	1971.2
50°	2427.8	2335.0	2243.7	2165.6	2110.7	2088.0	2109.5	2112.9
52.5°	2602.6	2512.2	2420.0	2330.8	2264.4	2236.7	2261.5	2272.3
55°	2779.7	2691.0	2603.0	2515.9	2437.0	2404.4	2430.9	2444.4
57.5°	2966.8	2884.6	2800.8	2712.8	2636.9	2586.1	2614.2	2632.4
60°	3186.2	3116.0	3028.7	2931.8	2855.0	2803.3	2819.4	2835.5
62.5°	3359.7	3386.8	3312.9	3200.7	3101.8	3035.8	3051.5	3068.4
65°	3275.8	3555.3	3621.0	3507.4	3370.7	3267.9	3261.2	3270.0
67.5°	2738.0	3281.1	3677.1	3785.4	3671.0	3528.1	3501.7	3514.4
70°	1831.6	2508.0	3206.8	3727.2	3865.4	3810.2	3784.1	3791.9
72.5°	879.6	1460.7	2175.5	2867.3	3288.5	3481.8	3543.8	3573.9
75°	321.8	579.9	1048.5	1580.1	1907.6	2208.3	2404.4	2484.5
77.5°	194.2	234.2	334.9	504.3	571.1	639.4	612.9	626.1
80°	143.6	162.4	183.8	206.5	213.9	213.9	205.6	199.1
82.5°	100.8	112.7	123.1	135.5	138.8	132.6	109.1	86.7
85°	64.9	70.2	74.7	82.6	80.6	76.8	51.7	45.9
87.5°	29.7	33.9	35.6	39.3	37.5	35.9	25.6	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)