

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: P299709

Luminaire Tested: **GAA-AF-03-LED-U-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299709
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: STREETWORKS
Catalog Number: GAA-AF-03-LED-U-5MQ-8030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10227.8 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 96
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

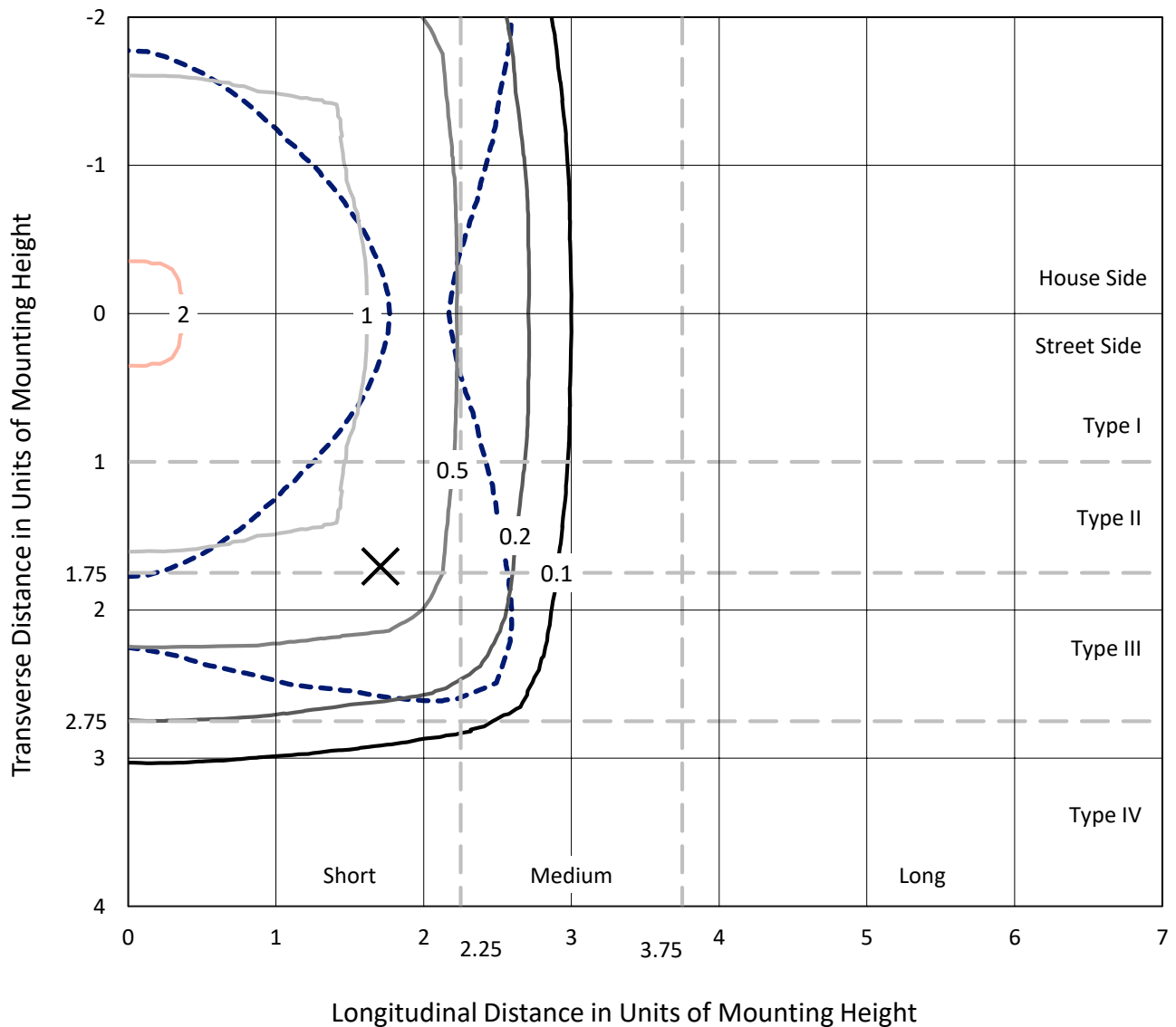


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

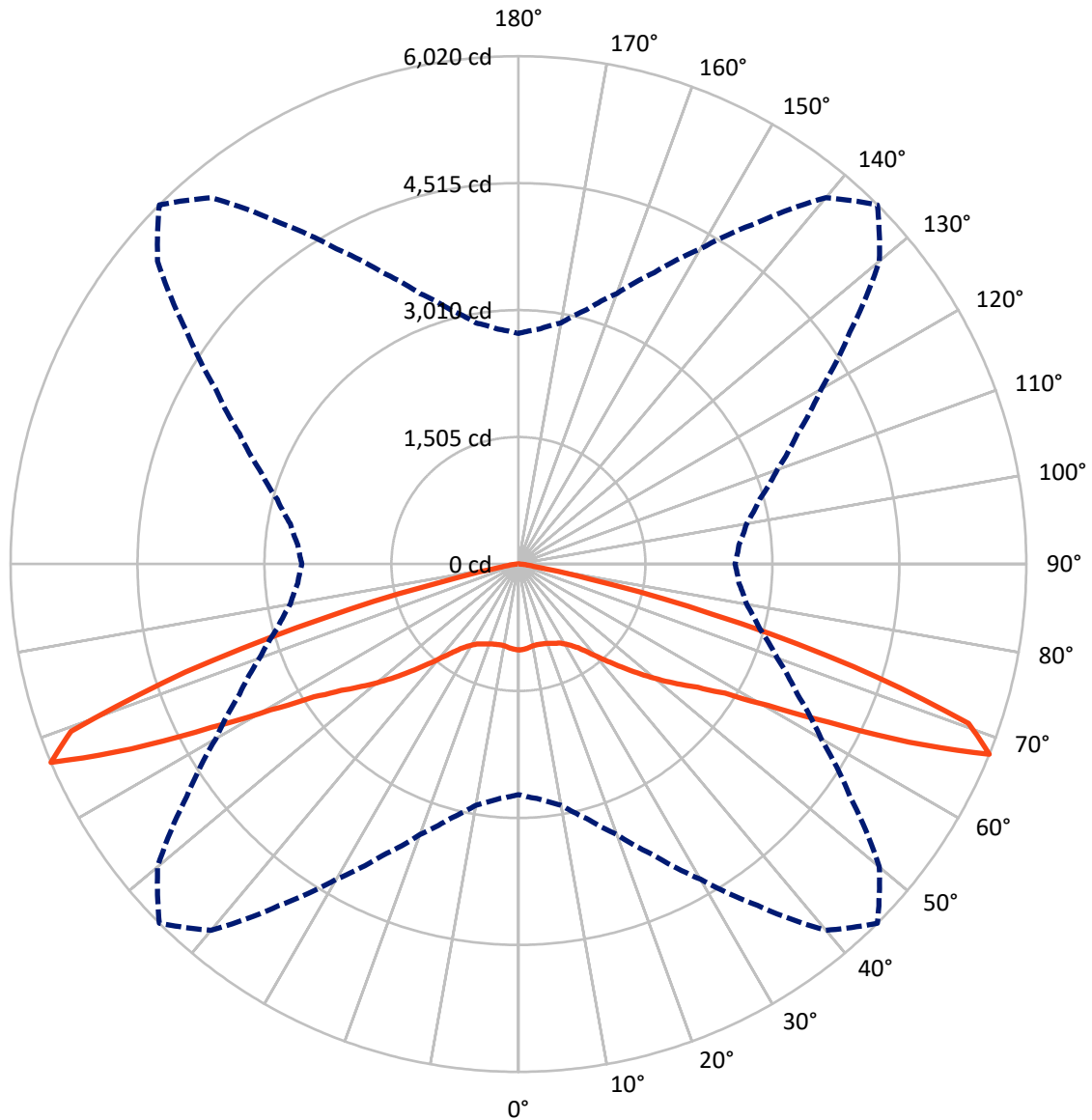


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

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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	5113.9	0.0	5113.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5113.9	0.0	5113.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	10227.8	0.0	10227.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	0.9
10°-20°	276.8	2.7
20°-30°	470.6	4.6
30°-40°	769.3	7.5
40°-50°	1373.3	13.4
50°-60°	2315.4	22.6
60°-70°	3593.2	35.1
70°-80°	1262.5	12.3
80°-90°	71.3	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°	10227.8	100.0
0°-180°	10227.8	100.0



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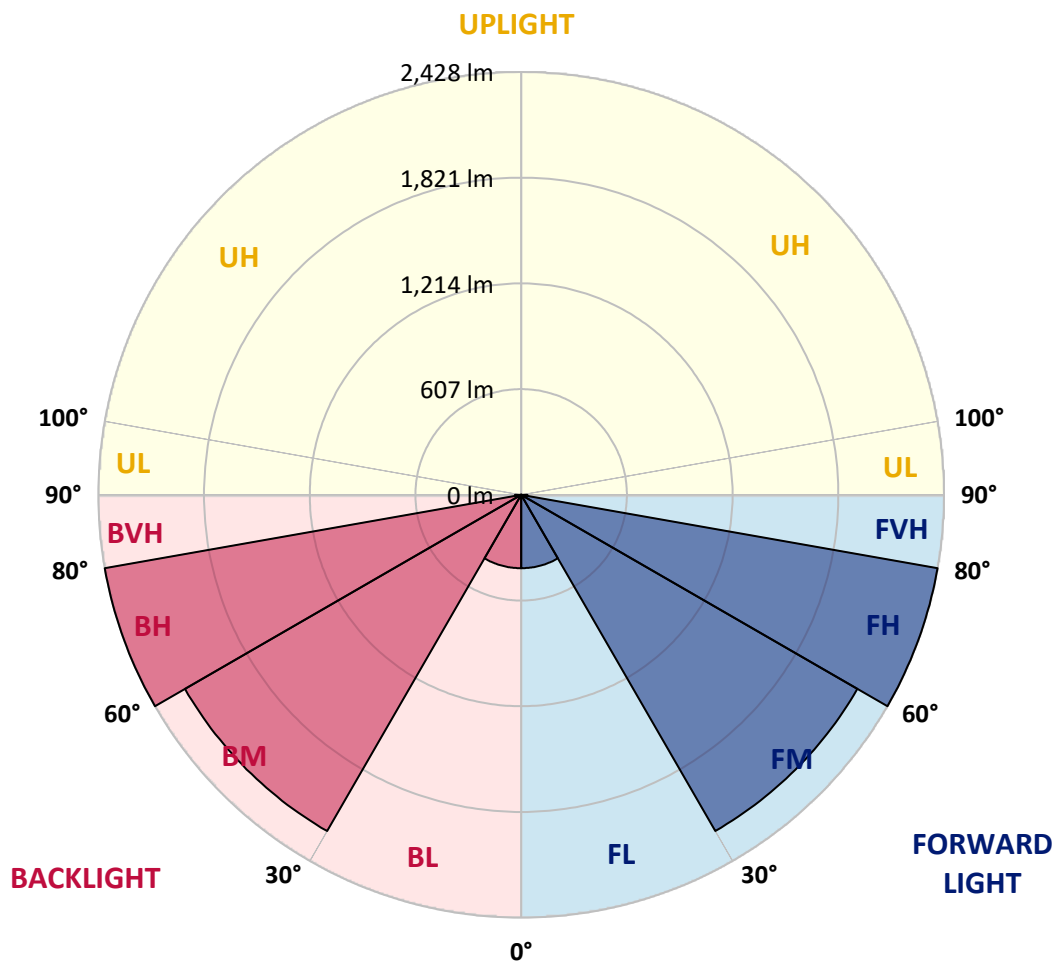
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	421.4	4.1			
FM	(30°-60°)	2229.0	21.8			
FH	(60°-80°)	2427.8	23.7			G2/5000
FVH	(80°-90°)	35.7	0.3			G1/100
BL	(0°-30°)	421.4	4.1	B1/500		
BM	(30°-60°)	2229.0	21.8	B2/2500		
BH	(60°-80°)	2427.8	23.7	B3/2500		G2/5000
BVH	(80°-90°)	35.7	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°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1015.5	1016.4	1016.4	1016.4	1015.9	1015.9	1015.0	1015.9	1015.5	1014.1	1014.5
5°	1007.0	1008.0	1008.0	1007.5	1008.9	1008.4	1007.0	1008.0	1007.5	1006.5	1007.0
7.5°	994.8	996.2	996.2	995.7	997.1	996.7	995.7	996.2	996.2	994.8	994.8
10°	981.1	982.1	982.1	981.6	984.0	984.0	983.5	984.9	985.4	984.0	983.0
12.5°	968.4	969.9	969.9	971.7	974.1	975.0	977.4	979.3	981.1	980.7	978.8
15°	960.9	961.9	963.7	966.1	969.9	973.1	976.9	981.1	984.9	985.8	983.0
17.5°	956.2	957.6	960.4	963.7	968.9	974.6	980.2	985.8	991.0	992.9	989.6
20°	954.8	955.7	958.6	964.2	971.3	979.7	987.7	994.3	1001.4	1003.7	1001.4
22.5°	957.6	959.5	962.8	969.4	978.8	989.6	999.0	1008.0	1016.9	1021.1	1017.8
25°	970.3	972.2	976.4	984.9	995.3	1006.5	1017.4	1027.7	1035.7	1039.9	1037.6
27.5°	993.8	996.2	1001.4	1009.8	1021.1	1033.4	1045.1	1053.6	1060.2	1061.6	1058.7
30°	1029.1	1034.3	1040.4	1049.8	1063.0	1073.3	1085.1	1092.6	1100.6	1100.6	1098.3
32.5°	1084.1	1089.3	1095.9	1104.8	1115.2	1126.5	1136.8	1143.4	1151.9	1152.3	1146.7
35°	1166.5	1168.8	1174.5	1180.1	1189.5	1199.4	1208.3	1212.6	1219.6	1220.1	1214.9
37.5°	1275.1	1275.6	1279.3	1281.2	1289.7	1300.5	1309.0	1311.8	1318.4	1317.4	1312.3
40°	1401.6	1404.0	1405.4	1408.2	1417.2	1427.5	1436.4	1437.8	1444.9	1443.5	1436.9
42.5°	1547.9	1548.9	1556.8	1561.1	1569.5	1574.7	1586.0	1587.4	1595.9	1592.1	1584.6
45°	1712.1	1720.5	1728.1	1736.5	1745.5	1751.6	1760.5	1758.6	1764.3	1758.6	1754.4
47.5°	1884.7	1890.8	1907.7	1920.9	1935.5	1940.6	1953.3	1947.7	1953.3	1945.4	1943.9
50°	2074.7	2085.5	2100.1	2115.1	2130.7	2139.1	2155.6	2148.5	2156.1	2148.5	2144.3
52.5°	2261.9	2264.7	2296.7	2318.8	2340.4	2350.3	2360.2	2356.9	2357.4	2356.9	2352.7
55°	2439.7	2446.3	2478.3	2508.4	2546.0	2573.7	2590.7	2588.8	2584.6	2580.3	2573.3
57.5°	2640.1	2646.6	2683.3	2720.5	2763.3	2802.8	2837.1	2872.4	2886.0	2889.8	2874.3
60°	2911.0	2910.5	2959.4	3004.6	3065.7	3124.5	3199.8	3276.4	3364.4	3405.3	3351.2
62.5°	3186.6	3197.9	3268.4	3348.4	3474.4	3597.2	3736.0	3872.4	4011.6	4124.9	4004.5
65°	3153.7	3196.9	3301.8	3482.9	3715.7	3992.3	4291.4	4608.0	4894.0	5090.6	4870.0
67.5°	2733.2	2794.8	2901.6	3121.7	3412.8	3811.7	4314.0	4940.0	5667.7	6019.5	5583.5
70°	1981.1	2050.7	2162.7	2377.6	2665.9	3045.0	3590.6	4342.2	5305.5	5660.1	5179.9
72.5°	985.8	1023.5	1092.6	1229.5	1447.7	1755.3	2250.1	2972.6	3824.9	4150.3	3711.5
75°	334.9	352.3	364.0	408.7	477.9	598.8	844.7	1299.6	1982.5	2376.7	1954.3
77.5°	193.3	193.8	201.8	209.8	221.5	234.7	267.6	351.3	607.7	863.1	628.9
80°	125.1	124.6	131.2	137.3	145.3	151.9	153.8	162.7	187.7	222.5	199.0
82.5°	64.9	72.9	87.5	95.5	110.5	113.4	109.6	106.3	112.4	116.6	119.5
85°	35.7	31.0	46.6	60.2	66.8	67.7	67.7	64.0	66.3	64.9	70.6
87.5°	16.5	15.1	18.3	29.6	31.5	26.8	28.2	24.9	17.9	17.4	19.8
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°	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1014.5	1015.0	1015.0	1016.4	1016.9	1017.8	1018.8	1019.2
5°	1006.5	1008.0	1007.0	1008.4	1008.4	1009.4	1009.4	1009.8
7.5°	994.8	996.2	996.2	996.2	995.7	997.1	997.1	997.1
10°	982.6	983.5	983.0	982.1	981.1	982.6	982.1	981.6
12.5°	978.8	976.4	974.6	973.6	971.7	972.2	970.8	970.8
15°	981.1	976.9	973.6	972.2	970.3	969.4	968.4	968.9
17.5°	987.3	982.1	977.8	975.5	973.1	971.7	969.9	970.3
20°	998.1	992.0	985.8	981.1	976.9	974.6	973.1	972.7
22.5°	1014.1	1005.1	996.2	989.1	983.5	980.2	978.8	977.8
25°	1032.4	1022.5	1012.2	1004.2	998.5	994.3	991.5	991.5
27.5°	1055.5	1047.5	1038.1	1028.6	1023.5	1019.2	1017.4	1016.4
30°	1094.0	1086.5	1079.0	1070.0	1063.5	1059.2	1055.9	1053.1
32.5°	1143.4	1137.3	1131.2	1124.6	1118.5	1112.8	1107.7	1105.3
35°	1213.0	1208.3	1204.1	1196.6	1194.2	1190.9	1188.1	1185.7
37.5°	1309.0	1307.1	1307.1	1299.1	1297.2	1295.8	1293.0	1293.5
40°	1435.0	1436.9	1434.6	1431.7	1430.3	1426.6	1426.6	1429.9
42.5°	1584.1	1585.5	1590.7	1586.0	1591.2	1586.5	1583.7	1586.0
45°	1757.2	1762.4	1772.7	1768.0	1771.3	1763.3	1753.5	1753.9
47.5°	1951.5	1956.2	1960.4	1957.1	1957.6	1944.4	1931.2	1927.9
50°	2153.2	2155.1	2157.5	2152.8	2153.7	2139.1	2124.1	2124.6
52.5°	2352.7	2361.6	2371.0	2358.3	2355.5	2339.0	2317.9	2309.4
55°	2580.8	2593.5	2582.7	2560.6	2538.5	2516.4	2488.6	2483.9
57.5°	2862.1	2840.4	2806.6	2764.7	2734.1	2703.1	2674.9	2663.1
60°	3253.4	3172.0	3110.9	3048.8	3009.7	2971.6	2934.5	2928.8
62.5°	3806.5	3665.9	3544.1	3415.7	3310.8	3228.9	3163.5	3145.2
65°	4499.8	4167.3	3878.9	3609.9	3376.1	3199.8	3088.8	3039.8
67.5°	4798.0	4141.4	3647.1	3265.1	2959.4	2745.9	2625.9	2566.2
70°	4216.2	3434.5	2896.9	2514.5	2236.0	2008.4	1899.7	1835.8
72.5°	2900.6	2184.8	1727.6	1410.1	1187.6	997.1	921.9	916.2
75°	1302.4	862.6	594.5	458.1	385.7	335.4	319.8	308.1
77.5°	364.5	269.5	240.3	224.8	209.8	192.4	185.8	187.2
80°	177.3	167.4	160.9	151.0	137.3	122.8	116.2	119.0
82.5°	117.6	116.2	120.4	113.4	93.6	79.5	66.8	61.1
85°	71.5	72.4	73.8	74.3	63.0	44.2	30.1	33.9
87.5°	28.2	32.5	35.3	36.7	34.3	21.2	16.9	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)