

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: P191600

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191600
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: GAN-AF-02-LED-U-5MQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 10337 lumens
Efficiency: N/A
Efficacy: 121.6 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: 28.75 FT

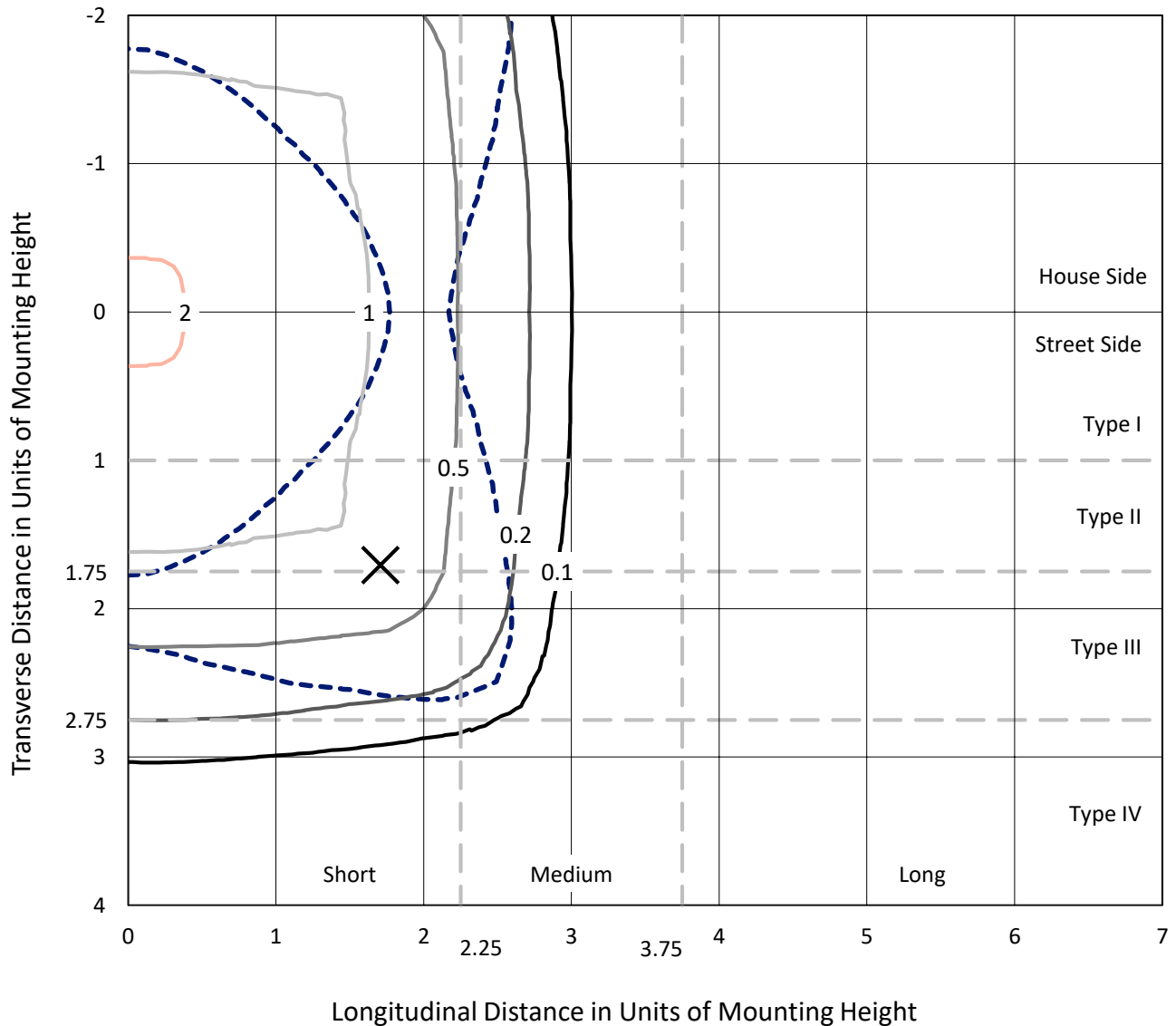


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Iso-Footcandle Lines of Horizontal Illumination

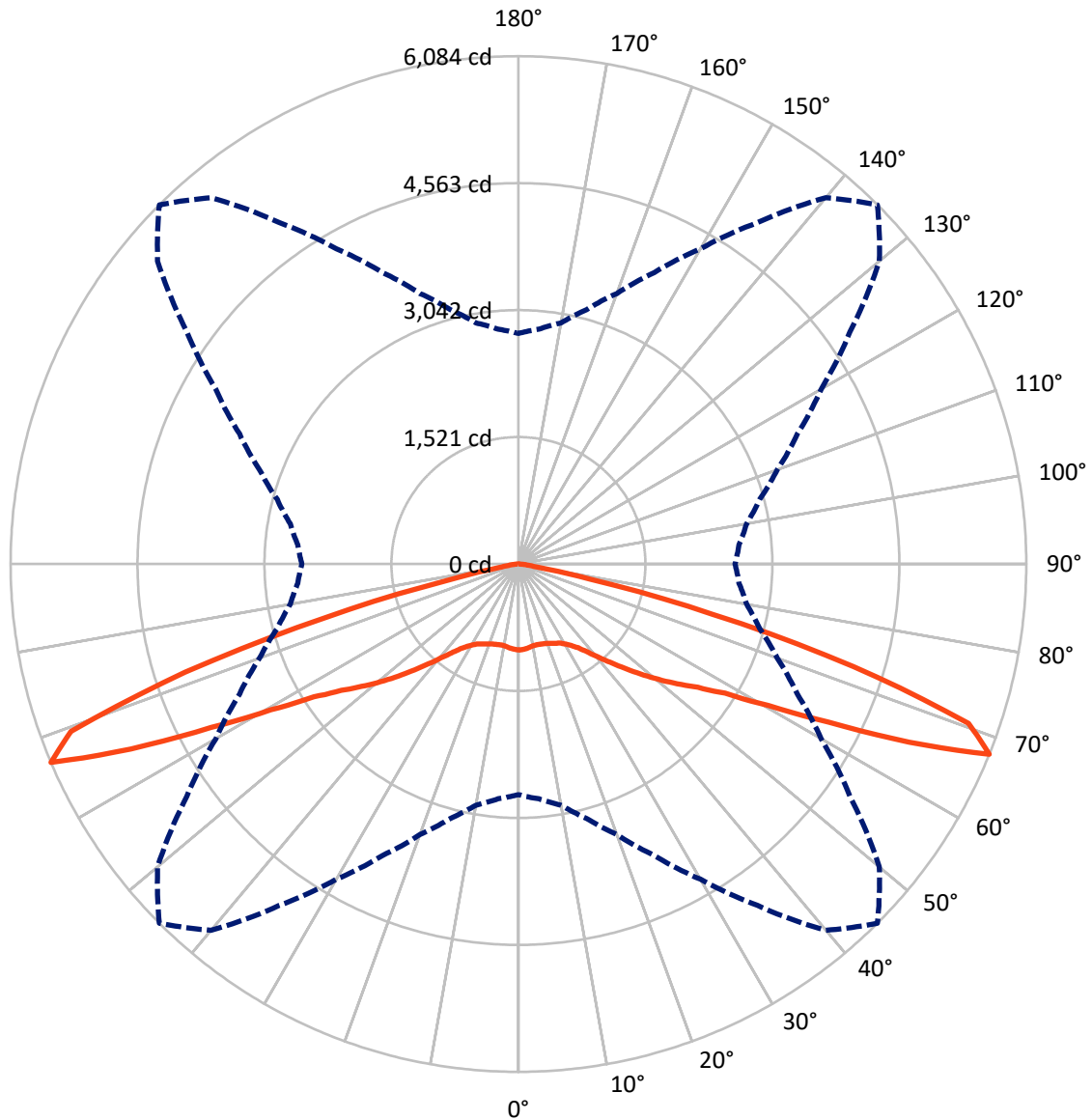
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 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	5168.5	0.0	5168.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5168.5	0.0	5168.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10337.0	0.0	10337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	0.9
10°-20°	279.8	2.7
20°-30°	475.6	4.6
30°-40°	777.5	7.5
40°-50°	1388.0	13.4
50°-60°	2340.1	22.6
60°-70°	3631.5	35.1
70°-80°	1276.0	12.3
80°-90°	72.1	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°	10337.0	100.0
0°-180°	10337.0	100.0

Coefficient of Utilization



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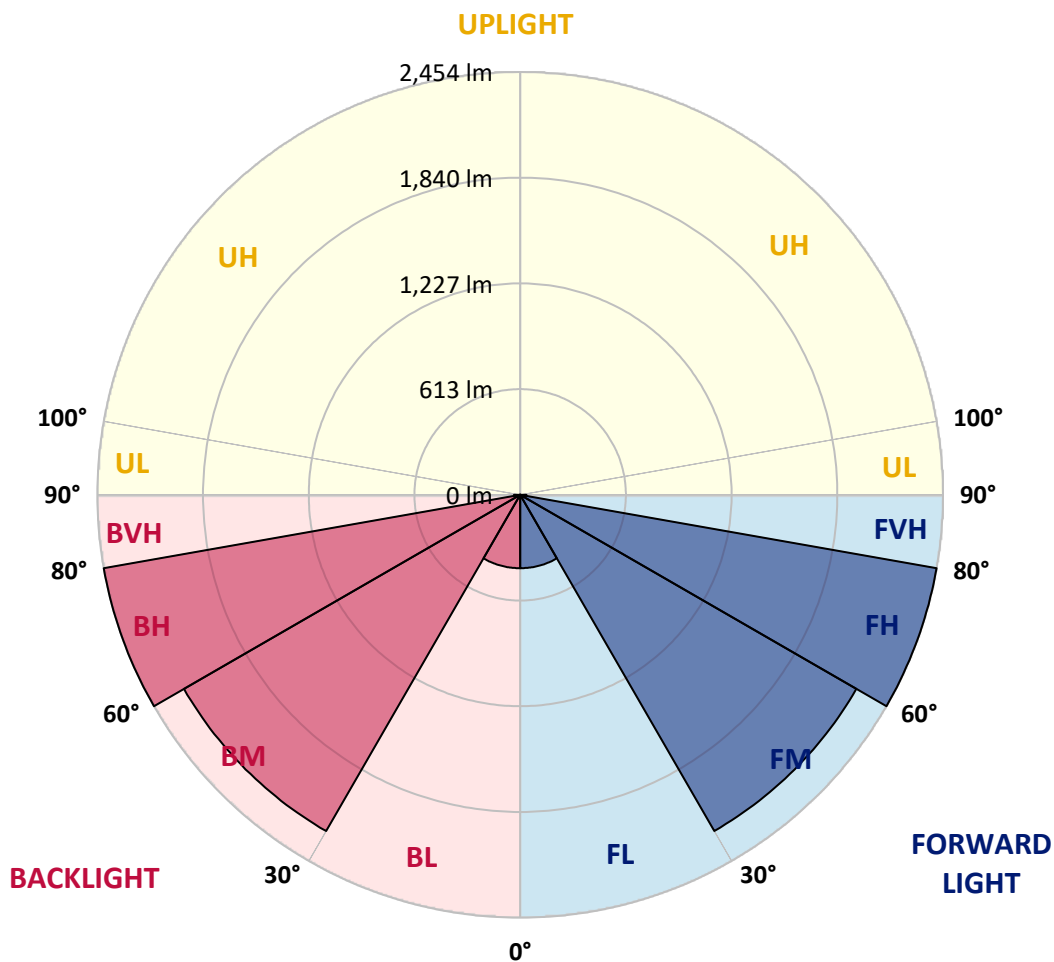
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.9	4.1			
FM	(30°-60°)	2252.8	21.8			
FH	(60°-80°)	2453.8	23.7			G2/5000
FVH	(80°-90°)	36.1	0.3			G1/100
BL	(0°-30°)	425.9	4.1	B1/500		
BM	(30°-60°)	2252.8	21.8	B2/2500		
BH	(60°-80°)	2453.8	23.7	B3/2500		G2/5000
BVH	(80°-90°)	36.1	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°	1030.1	1030.1	1030.1	1030.1	1030.1	1030.1	1030.1	1030.1	1030.1	1030.1	1030.1
2.5°	1026.3	1027.3	1027.3	1027.3	1026.8	1026.8	1025.8	1026.8	1026.3	1024.9	1025.4
5°	1017.8	1018.7	1018.7	1018.2	1019.7	1019.2	1017.8	1018.7	1018.2	1017.3	1017.8
7.5°	1005.4	1006.8	1006.8	1006.4	1007.8	1007.3	1006.4	1006.8	1006.8	1005.4	1005.4
10°	991.6	992.6	992.6	992.1	994.5	994.5	994.0	995.4	995.9	994.5	993.5
12.5°	978.8	980.2	980.2	982.1	984.5	985.4	987.8	989.7	991.6	991.1	989.2
15°	971.2	972.1	974.0	976.4	980.2	983.5	987.3	991.6	995.4	996.4	993.5
17.5°	966.4	967.9	970.7	974.0	979.3	985.0	990.7	996.4	1001.6	1003.5	1000.2
20°	965.0	966.0	968.8	974.5	981.6	990.2	998.3	1004.9	1012.1	1014.4	1012.1
22.5°	967.9	969.8	973.1	979.7	989.2	1000.2	1009.7	1018.7	1027.7	1032.0	1028.7
25°	980.7	982.6	986.9	995.4	1005.9	1017.3	1028.2	1038.7	1046.8	1051.0	1048.7
27.5°	1004.5	1006.8	1012.1	1020.6	1032.0	1044.4	1056.3	1064.8	1071.5	1072.9	1070.1
30°	1040.1	1045.3	1051.5	1061.0	1074.3	1084.8	1096.7	1104.3	1112.4	1112.4	1110.0
32.5°	1095.7	1101.0	1107.6	1116.6	1127.1	1138.5	1149.0	1155.6	1164.2	1164.7	1159.0
35°	1178.9	1181.3	1187.0	1192.7	1202.2	1212.2	1221.2	1225.5	1232.6	1233.1	1227.9
37.5°	1288.7	1289.2	1293.0	1294.9	1303.5	1314.4	1323.0	1325.8	1332.5	1331.5	1326.3
40°	1416.6	1419.0	1420.4	1423.3	1432.3	1442.7	1451.8	1453.2	1460.3	1458.9	1452.3
42.5°	1564.4	1565.4	1573.5	1577.8	1586.3	1591.5	1602.9	1604.4	1612.9	1609.1	1601.5
45°	1730.3	1738.9	1746.5	1755.1	1764.1	1770.3	1779.3	1777.4	1783.1	1777.4	1773.1
47.5°	1904.8	1911.0	1928.1	1941.4	1956.1	1961.4	1974.2	1968.5	1974.2	1966.1	1964.7
50°	2096.9	2107.8	2122.5	2137.7	2153.4	2162.0	2178.6	2171.5	2179.1	2171.5	2167.2
52.5°	2286.1	2288.9	2321.2	2343.6	2365.4	2375.4	2385.4	2382.1	2382.6	2382.1	2377.8
55°	2465.7	2472.4	2504.7	2535.1	2573.2	2601.2	2618.3	2616.4	2612.2	2607.9	2600.7
57.5°	2668.2	2674.9	2712.0	2749.5	2792.8	2832.7	2867.4	2903.1	2916.9	2920.7	2905.0
60°	2942.1	2941.6	2991.0	3036.7	3098.5	3157.9	3233.9	3311.4	3400.3	3441.7	3387.0
62.5°	3220.6	3232.0	3303.3	3384.2	3511.6	3635.6	3775.9	3913.7	4054.4	4169.0	4047.3
65°	3187.4	3231.1	3337.1	3520.1	3755.4	4034.9	4337.3	4657.2	4946.2	5144.9	4922.0
67.5°	2762.4	2824.6	2932.6	3155.0	3449.3	3852.4	4360.1	4992.8	5728.2	6083.8	5643.1
70°	2002.3	2072.6	2185.7	2403.0	2694.4	3077.5	3629.0	4388.6	5362.2	5720.6	5235.2
72.5°	996.4	1034.4	1104.3	1242.6	1463.2	1774.1	2274.2	3004.3	3865.7	4194.7	3751.1
75°	338.5	356.1	367.9	413.1	483.0	605.1	853.8	1313.4	2003.7	2402.0	1975.2
77.5°	195.4	195.9	203.9	212.0	223.9	237.2	270.5	355.1	614.2	872.3	635.6
80°	126.4	126.0	132.6	138.8	146.9	153.5	155.4	164.5	189.7	224.8	201.1
82.5°	65.6	73.7	88.4	96.5	111.7	114.6	110.8	107.4	113.6	117.9	120.7
85°	36.1	31.4	47.1	60.8	67.5	68.5	68.5	64.7	67.0	65.6	71.3
87.5°	16.6	15.2	18.5	29.9	31.8	27.1	28.5	25.2	18.1	17.6	20.0
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°	1030.1	1030.1	1030.1	1030.1	1030.1	1030.1	1030.1	1030.1
2.5°	1025.4	1025.8	1025.8	1027.3	1027.7	1028.7	1029.7	1030.1
5°	1017.3	1018.7	1017.8	1019.2	1019.2	1020.1	1020.1	1020.6
7.5°	1005.4	1006.8	1006.8	1006.8	1006.4	1007.8	1007.8	1007.8
10°	993.0	994.0	993.5	992.6	991.6	993.0	992.6	992.1
12.5°	989.2	986.9	985.0	984.0	982.1	982.6	981.2	981.2
15°	991.6	987.3	984.0	982.6	980.7	979.7	978.8	979.3
17.5°	997.8	992.6	988.3	985.9	983.5	982.1	980.2	980.7
20°	1008.7	1002.6	996.4	991.6	987.3	985.0	983.5	983.1
22.5°	1024.9	1015.9	1006.8	999.7	994.0	990.7	989.2	988.3
25°	1043.4	1033.5	1023.0	1014.9	1009.2	1004.9	1002.1	1002.1
27.5°	1066.7	1058.6	1049.1	1039.6	1034.4	1030.1	1028.2	1027.3
30°	1105.7	1098.1	1090.5	1081.5	1074.8	1070.5	1067.2	1064.4
32.5°	1155.6	1149.4	1143.3	1136.6	1130.4	1124.7	1119.5	1117.1
35°	1226.0	1221.2	1216.9	1209.3	1207.0	1203.6	1200.8	1198.4
37.5°	1323.0	1321.1	1321.1	1313.0	1311.1	1309.6	1306.8	1307.3
40°	1450.4	1452.3	1449.9	1447.0	1445.6	1441.8	1441.8	1445.1
42.5°	1601.0	1602.5	1607.7	1602.9	1608.2	1603.4	1600.6	1602.9
45°	1776.0	1781.2	1791.7	1786.9	1790.2	1782.2	1772.2	1772.7
47.5°	1972.3	1977.1	1981.3	1978.0	1978.5	1965.2	1951.9	1948.5
50°	2176.2	2178.1	2180.5	2175.8	2176.7	2162.0	2146.8	2147.2
52.5°	2377.8	2386.8	2396.3	2383.5	2380.7	2364.0	2342.6	2334.1
55°	2608.4	2621.2	2610.3	2587.9	2565.6	2543.2	2515.2	2510.4
57.5°	2892.6	2870.8	2836.5	2794.2	2763.3	2731.9	2703.4	2691.5
60°	3288.1	3205.9	3144.1	3081.3	3041.9	3003.4	2965.8	2960.1
62.5°	3847.2	3705.0	3581.9	3452.1	3346.1	3263.4	3197.3	3178.8
65°	4547.9	4211.8	3920.4	3648.5	3412.2	3233.9	3121.8	3072.3
67.5°	4849.2	4185.6	3686.0	3300.0	2991.0	2775.2	2654.0	2593.6
70°	4261.2	3471.1	2927.8	2541.3	2259.9	2029.8	1920.0	1855.4
72.5°	2931.6	2208.1	1746.0	1425.2	1200.3	1007.8	931.7	926.0
75°	1316.3	871.8	600.9	463.0	389.8	338.9	323.3	311.4
77.5°	368.4	272.4	242.9	227.2	212.0	194.4	187.8	189.2
80°	179.2	169.2	162.6	152.6	138.8	124.1	117.4	120.3
82.5°	118.8	117.4	121.7	114.6	94.6	80.3	67.5	61.8
85°	72.3	73.2	74.6	75.1	63.7	44.7	30.4	34.2
87.5°	28.5	32.8	35.7	37.1	34.7	21.4	17.1	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)