

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: P268241

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268241
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11115.3 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

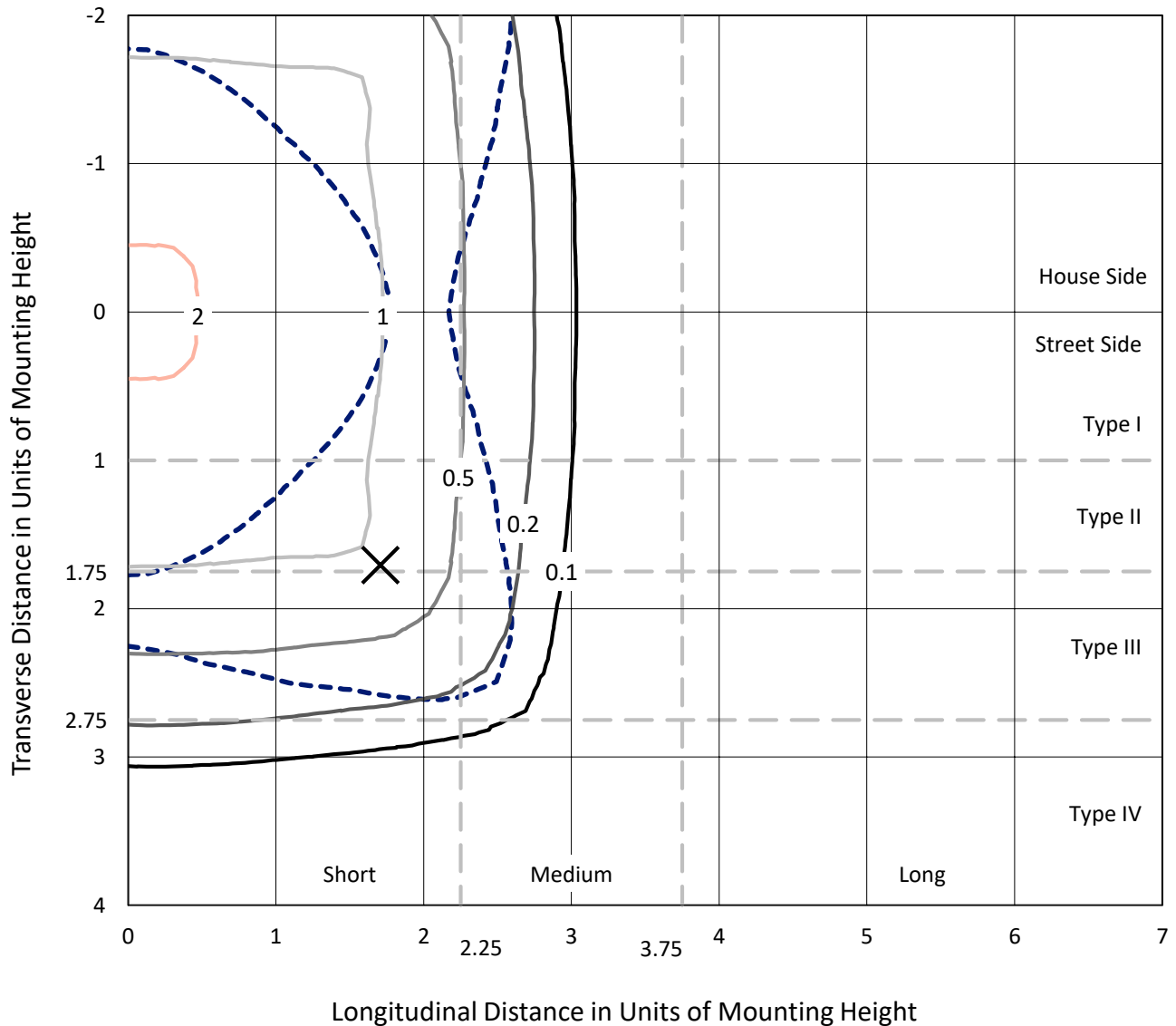
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

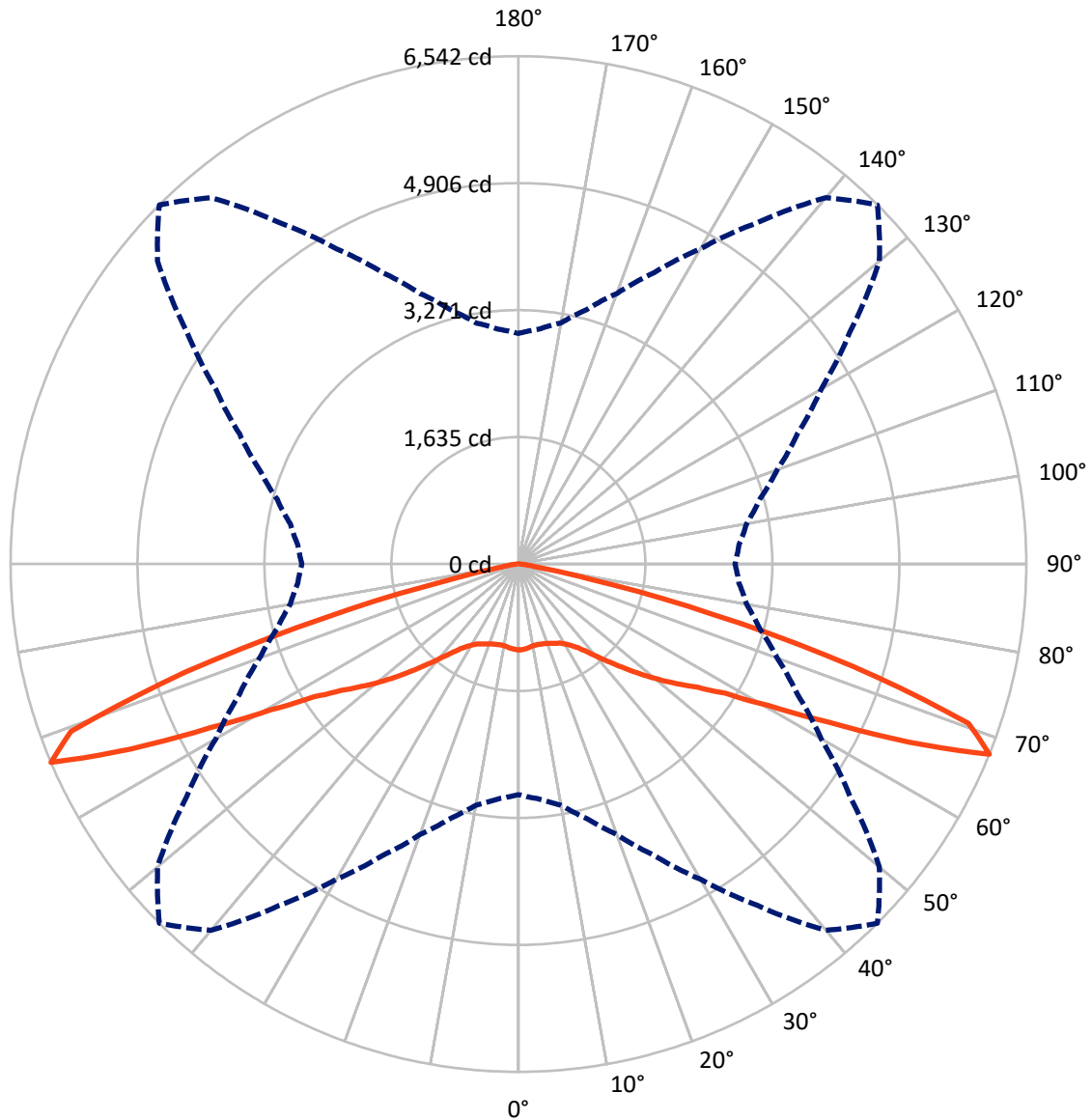
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 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	5557.6	0.0	5557.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5557.6	0.0	5557.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11115.3	0.0	11115.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	0.9
10°-20°	300.8	2.7
20°-30°	511.4	4.6
30°-40°	836.0	7.5
40°-50°	1492.5	13.4
50°-60°	2516.3	22.6
60°-70°	3905.0	35.1
70°-80°	1372.0	12.3
80°-90°	77.5	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°	11115.3	100.0
0°-180°	11115.3	100.0



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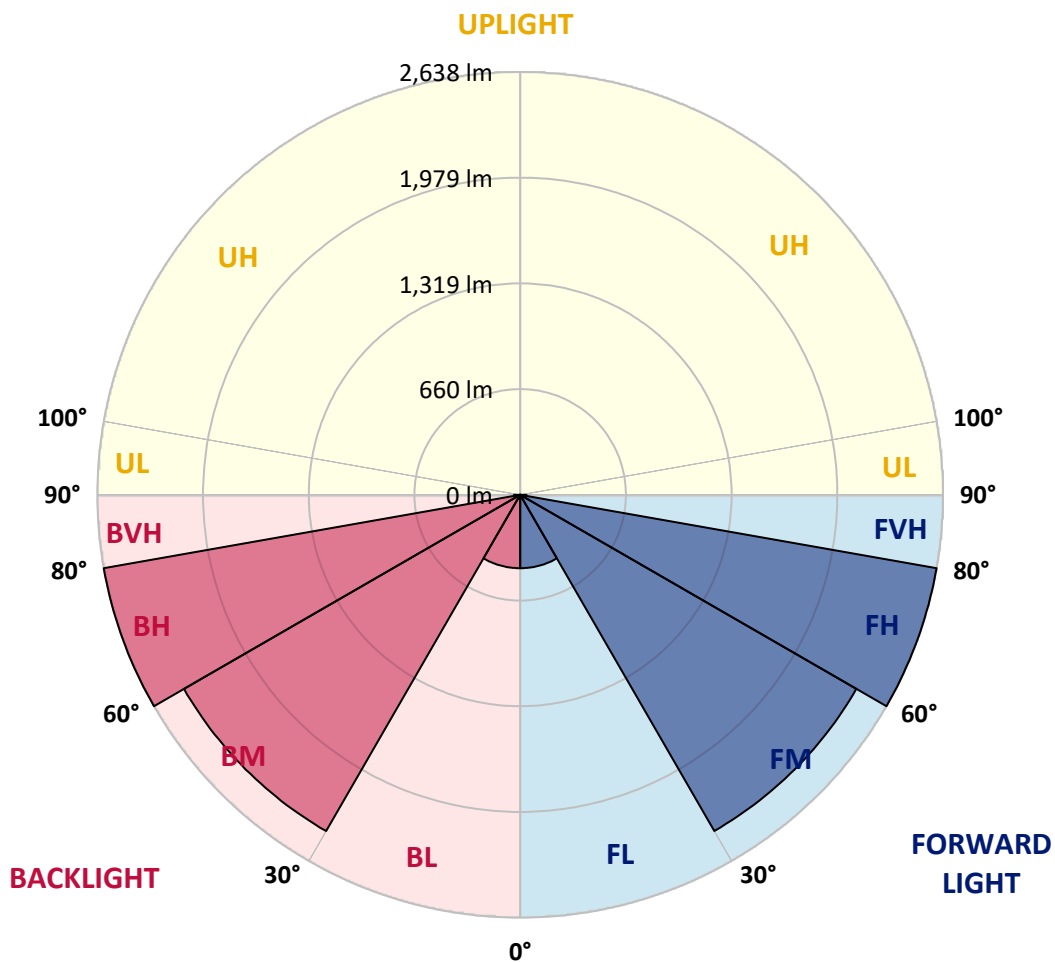
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	458.0	4.1			
FM	(30°-60°)	2422.4	21.8			
FH	(60°-80°)	2638.5	23.7			G2/5000
FVH	(80°-90°)	38.8	0.3			G1/100
BL	(0°-30°)	458.0	4.1	B1/500		
BM	(30°-60°)	2422.4	21.8	B2/2500		
BH	(60°-80°)	2638.5	23.7	B4/5000		G2/5000
BVH	(80°-90°)	38.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7
2.5°	1103.6	1104.6	1104.6	1104.6	1104.0	1104.0	1103.1	1104.0	1103.6	1102.1	1102.6
5°	1094.3	1095.5	1095.5	1094.9	1096.4	1095.9	1094.3	1095.5	1094.9	1093.9	1094.3
7.5°	1081.1	1082.6	1082.6	1082.1	1083.6	1083.1	1082.1	1082.6	1082.6	1081.1	1081.1
10°	1066.3	1067.2	1067.2	1066.7	1069.3	1069.3	1068.9	1070.4	1070.9	1069.3	1068.4
12.5°	1052.5	1054.0	1054.0	1056.0	1058.7	1059.6	1062.2	1064.2	1066.3	1065.7	1063.8
15°	1044.3	1045.3	1047.3	1049.8	1054.0	1057.6	1061.6	1066.3	1070.4	1071.4	1068.4
17.5°	1039.2	1040.7	1043.8	1047.3	1053.1	1059.1	1065.3	1071.4	1077.0	1079.0	1075.5
20°	1037.6	1038.7	1041.8	1047.9	1055.6	1064.8	1073.5	1080.7	1088.2	1090.8	1088.2
22.5°	1040.7	1042.8	1046.3	1053.5	1063.8	1075.5	1085.7	1095.5	1105.2	1109.8	1106.2
25°	1054.5	1056.5	1061.2	1070.4	1081.6	1093.9	1105.6	1117.0	1125.5	1130.2	1127.6
27.5°	1080.1	1082.6	1088.2	1097.5	1109.8	1123.1	1135.7	1145.0	1152.2	1153.8	1150.5
30°	1118.4	1124.0	1130.6	1140.8	1155.2	1166.4	1179.3	1187.4	1196.2	1196.2	1193.6
32.5°	1178.2	1183.8	1191.1	1200.8	1212.0	1224.2	1235.4	1242.6	1251.9	1252.3	1246.2
35°	1267.7	1270.3	1276.3	1282.5	1292.8	1303.5	1313.1	1317.8	1325.4	1326.0	1320.2
37.5°	1385.7	1386.3	1390.3	1392.5	1401.5	1413.4	1422.6	1425.6	1432.7	1431.8	1426.1
40°	1523.3	1525.9	1527.4	1530.4	1540.1	1551.4	1561.1	1562.6	1570.2	1568.7	1561.7
42.5°	1682.3	1683.2	1692.0	1696.5	1705.7	1711.5	1723.7	1725.1	1734.4	1730.2	1722.1
45°	1860.6	1869.8	1877.9	1887.2	1897.0	1903.6	1913.3	1911.2	1917.3	1911.2	1906.7
47.5°	2048.2	2054.9	2073.3	2087.7	2103.4	2109.0	2122.9	2116.8	2122.9	2114.2	2112.6
50°	2254.7	2266.5	2282.4	2298.8	2315.6	2324.8	2342.6	2335.0	2343.1	2335.0	2330.4
52.5°	2458.2	2461.3	2496.0	2520.0	2543.6	2554.3	2565.0	2561.4	2562.0	2561.4	2556.8
55°	2651.3	2658.5	2693.3	2726.0	2766.9	2797.1	2815.5	2813.4	2808.8	2804.1	2796.6
57.5°	2869.1	2876.4	2916.2	2956.5	3003.0	3046.1	3083.3	3121.7	3136.5	3140.6	3123.6
60°	3163.7	3163.0	3216.2	3265.2	3331.8	3395.7	3477.3	3560.7	3656.3	3700.7	3642.0
62.5°	3463.1	3475.5	3552.1	3638.9	3775.9	3909.3	4060.2	4208.4	4359.7	4482.9	4352.0
65°	3427.4	3474.4	3588.3	3785.2	4038.2	4338.8	4663.8	5007.8	5318.7	5532.3	5292.5
67.5°	2970.3	3037.3	3153.3	3392.5	3709.0	4142.4	4688.3	5368.7	6159.5	6541.8	6068.1
70°	2153.0	2228.7	2350.3	2584.0	2897.3	3309.3	3902.1	4719.1	5766.0	6151.4	5629.4
72.5°	1071.4	1112.3	1187.4	1336.1	1573.3	1907.6	2445.4	3230.6	4156.7	4510.5	4033.6
75°	364.0	382.9	395.7	444.2	519.3	650.7	918.1	1412.3	2154.6	2582.8	2123.9
77.5°	210.2	210.7	219.2	228.0	240.7	255.1	290.8	381.8	660.4	938.0	683.4
80°	136.0	135.5	142.7	149.3	157.9	165.1	167.2	176.8	203.9	241.7	216.2
82.5°	70.5	79.2	95.1	103.8	120.2	123.2	119.0	115.5	122.2	126.8	129.8
85°	38.8	33.7	50.7	65.4	72.7	73.7	73.7	69.4	72.0	70.5	76.6
87.5°	17.8	16.3	19.9	32.2	34.2	29.1	30.6	27.0	19.5	19.0	21.5
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°	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7
2.5°	1102.6	1103.1	1103.1	1104.6	1105.2	1106.2	1107.3	1107.7
5°	1093.9	1095.5	1094.3	1095.9	1095.9	1096.9	1096.9	1097.5
7.5°	1081.1	1082.6	1082.6	1082.6	1082.1	1083.6	1083.6	1083.6
10°	1067.8	1068.9	1068.4	1067.2	1066.3	1067.8	1067.2	1066.7
12.5°	1063.8	1061.2	1059.1	1058.2	1056.0	1056.5	1055.0	1055.0
15°	1066.3	1061.6	1058.2	1056.5	1054.5	1053.5	1052.5	1053.1
17.5°	1072.9	1067.2	1062.8	1060.1	1057.6	1056.0	1054.0	1054.5
20°	1084.7	1078.1	1071.4	1066.3	1061.6	1059.1	1057.6	1057.0
22.5°	1102.1	1092.3	1082.6	1075.0	1068.9	1065.3	1063.8	1062.8
25°	1122.1	1111.3	1100.1	1091.4	1085.2	1080.7	1077.5	1077.5
27.5°	1147.0	1138.3	1128.1	1117.9	1112.3	1107.7	1105.6	1104.6
30°	1188.9	1180.8	1172.6	1162.9	1155.7	1151.2	1147.6	1144.5
32.5°	1242.6	1236.0	1229.3	1222.1	1215.5	1209.4	1203.8	1201.3
35°	1318.4	1313.1	1308.7	1300.3	1297.8	1294.3	1291.3	1288.6
37.5°	1422.6	1420.5	1420.5	1411.9	1409.8	1408.3	1405.2	1405.7
40°	1559.5	1561.7	1559.1	1556.0	1554.4	1550.4	1550.4	1553.9
42.5°	1721.6	1723.0	1728.8	1723.7	1729.2	1724.1	1721.1	1723.7
45°	1909.6	1915.4	1926.5	1921.5	1925.1	1916.4	1905.7	1906.2
47.5°	2120.8	2125.8	2130.5	2126.9	2127.5	2113.2	2098.8	2095.2
50°	2340.1	2342.2	2344.7	2339.5	2340.7	2324.8	2308.5	2309.0
52.5°	2556.8	2566.5	2576.8	2563.0	2559.9	2542.1	2518.9	2509.9
55°	2804.8	2818.5	2806.8	2782.8	2758.8	2734.7	2704.5	2699.4
57.5°	3110.4	3086.8	3050.0	3004.7	2971.4	2937.6	2906.9	2894.2
60°	3535.6	3447.2	3380.9	3313.4	3270.9	3229.4	3189.2	3183.1
62.5°	4136.9	3984.1	3851.7	3712.1	3598.0	3509.0	3438.1	3418.1
65°	4890.3	4528.9	4215.6	3923.2	3669.0	3477.3	3356.7	3303.6
67.5°	5214.3	4500.8	3963.5	3548.5	3216.2	2984.2	2853.8	2788.9
70°	4582.1	3732.5	3148.2	2732.6	2430.1	2182.6	2064.6	1995.0
72.5°	3152.3	2374.3	1877.5	1532.5	1290.7	1083.6	1001.9	995.7
75°	1415.4	937.6	646.2	497.9	419.1	364.4	347.6	334.8
77.5°	396.2	292.8	261.1	244.2	228.0	209.0	201.8	203.5
80°	192.6	181.9	174.8	164.1	149.3	133.4	126.2	129.4
82.5°	127.7	126.2	130.9	123.2	101.7	86.3	72.7	66.5
85°	77.8	78.7	80.3	80.8	68.5	48.1	32.7	36.8
87.5°	30.6	35.3	38.4	39.9	37.3	22.9	18.3	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)