

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: P190800

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190800
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 10574.2 lumens
Efficiency: N/A
Efficacy: 124.4 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

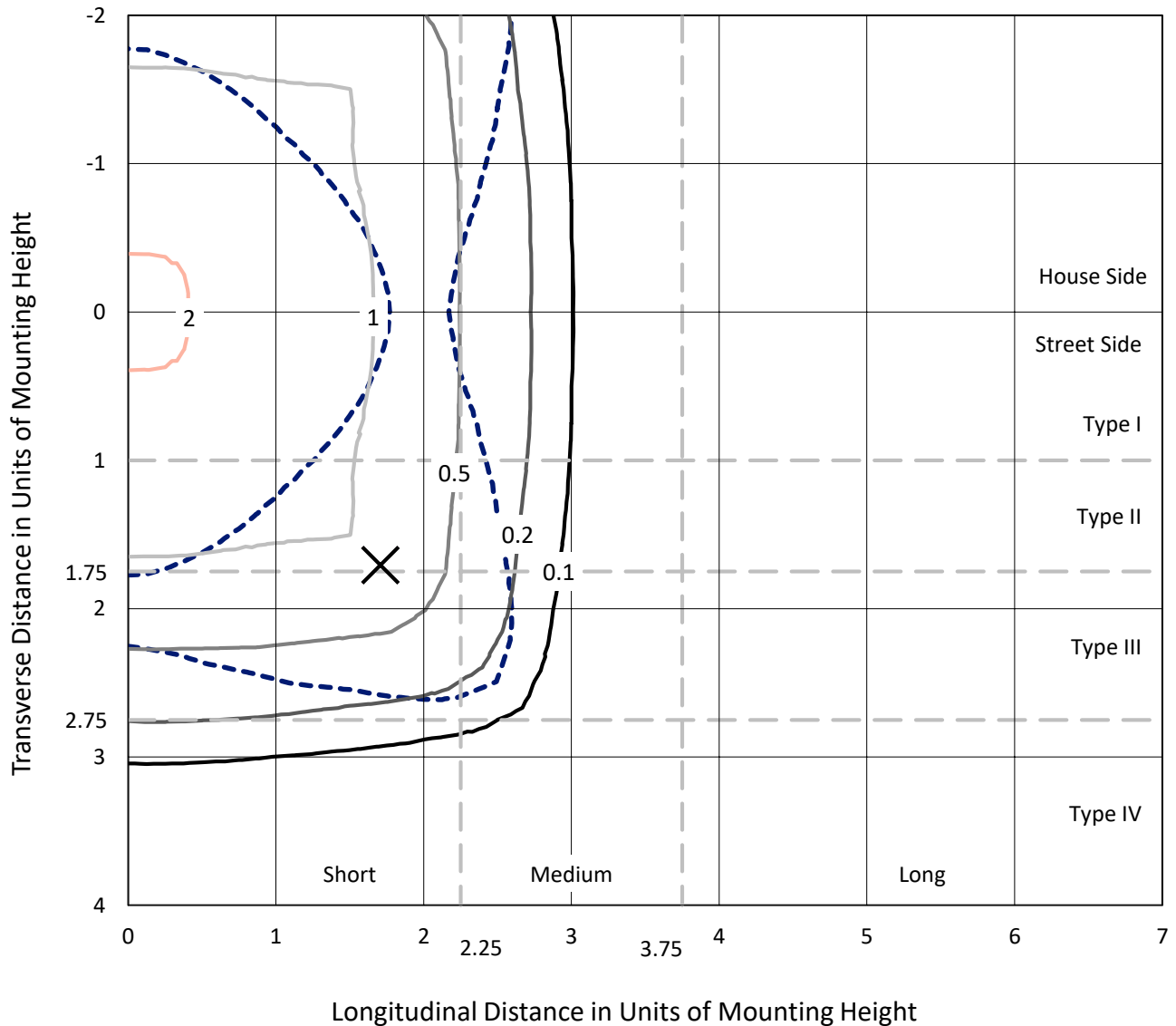
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

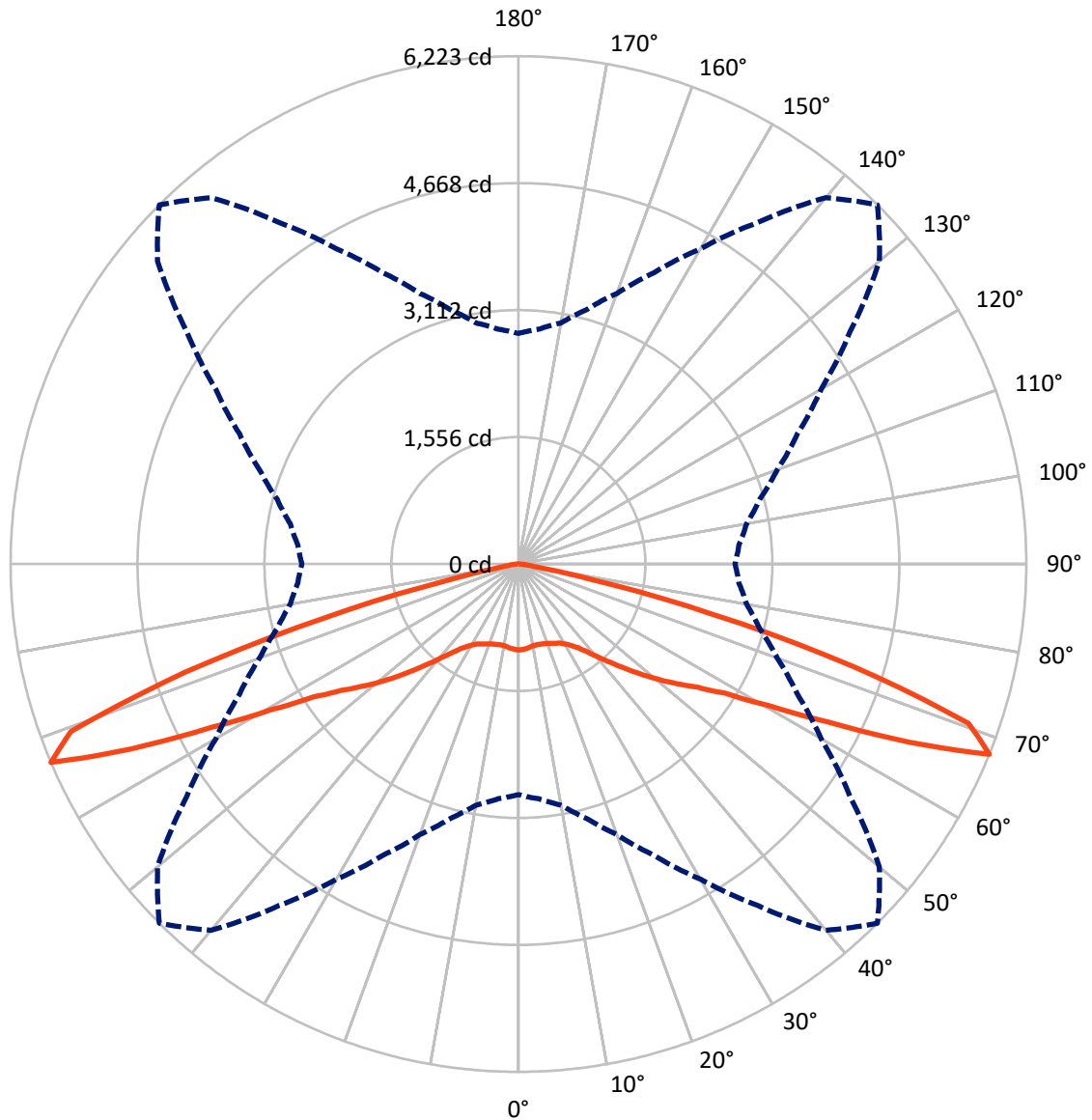
× Max cd
 - - - 1/2 Max cd



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	5287.1	0.0	5287.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5287.1	0.0	5287.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10574.2	0.0	10574.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	0.9
10°-20°	286.2	2.7
20°-30°	486.5	4.6
30°-40°	795.3	7.5
40°-50°	1419.8	13.4
50°-60°	2393.8	22.6
60°-70°	3714.9	35.1
70°-80°	1305.2	12.3
80°-90°	73.8	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°	10574.2	100.0
0°-180°	10574.2	100.0

Coefficient of Utilization



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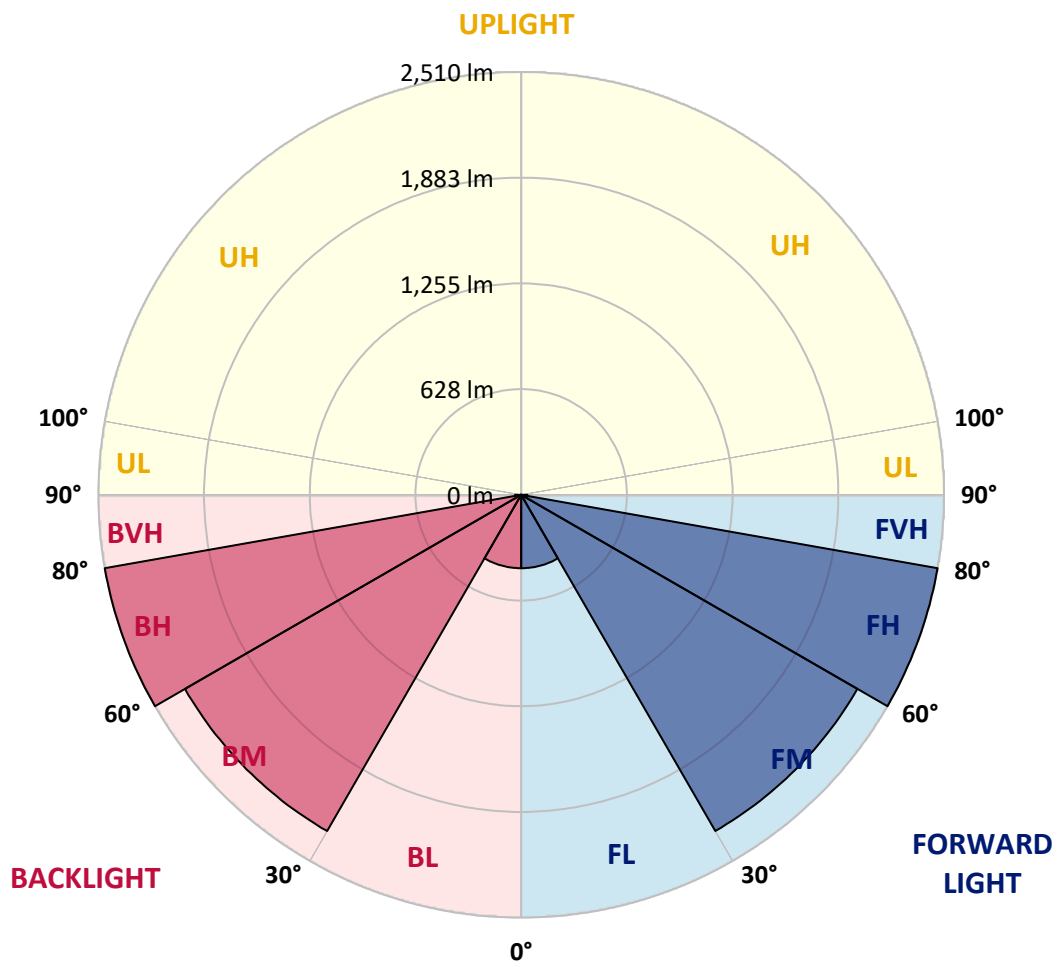
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	435.7	4.1			
FM	(30°-60°)	2304.5	21.8			
FH	(60°-80°)	2510.1	23.7			G2/5000
FVH	(80°-90°)	36.9	0.3			G1/100
BL	(0°-30°)	435.7	4.1	B1/500		
BM	(30°-60°)	2304.5	21.8	B2/2500		
BH	(60°-80°)	2510.1	23.7	B4/5000		G2/5000
BVH	(80°-90°)	36.9	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°	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1049.9	1050.9	1050.9	1050.9	1050.4	1050.4	1049.3	1050.4	1049.9	1048.4	1048.9
5°	1041.2	1042.1	1042.1	1041.6	1043.1	1042.6	1041.2	1042.1	1041.6	1040.6	1041.2
7.5°	1028.5	1029.9	1029.9	1029.5	1030.9	1030.4	1029.5	1029.9	1029.9	1028.5	1028.5
10°	1014.4	1015.4	1015.4	1014.9	1017.3	1017.3	1016.8	1018.2	1018.8	1017.3	1016.3
12.5°	1001.3	1002.7	1002.7	1004.6	1007.1	1008.0	1010.5	1012.4	1014.4	1013.8	1011.9
15°	993.5	994.4	996.4	998.8	1002.7	1006.1	1010.0	1014.4	1018.2	1019.3	1016.3
17.5°	988.6	990.1	993.0	996.4	1001.8	1007.6	1013.4	1019.3	1024.6	1026.5	1023.2
20°	987.1	988.2	991.0	996.9	1004.1	1012.9	1021.2	1028.0	1035.3	1037.7	1035.3
22.5°	990.1	992.1	995.4	1002.2	1011.9	1023.2	1032.9	1042.1	1051.3	1055.7	1052.3
25°	1003.2	1005.2	1009.6	1018.2	1029.0	1040.6	1051.8	1062.5	1070.8	1075.1	1072.8
27.5°	1027.6	1029.9	1035.3	1044.0	1055.7	1068.4	1080.5	1089.2	1096.1	1097.5	1094.7
30°	1064.0	1069.3	1075.6	1085.4	1099.0	1109.7	1121.9	1129.6	1137.9	1137.9	1135.5
32.5°	1120.8	1126.3	1133.0	1142.2	1153.0	1164.6	1175.4	1182.1	1190.9	1191.4	1185.6
35°	1206.0	1208.4	1214.2	1220.1	1229.8	1240.0	1249.2	1253.6	1260.9	1261.4	1256.1
37.5°	1318.3	1318.8	1322.7	1324.6	1333.4	1344.6	1353.4	1356.2	1363.1	1362.1	1356.7
40°	1449.1	1451.6	1453.0	1456.0	1465.2	1475.8	1485.1	1486.6	1493.8	1492.4	1485.6
42.5°	1600.3	1601.3	1609.6	1614.0	1622.7	1628.0	1639.7	1641.2	1649.9	1646.0	1638.3
45°	1770.0	1778.8	1786.6	1795.4	1804.6	1810.9	1820.1	1818.2	1824.0	1818.2	1813.8
47.5°	1948.5	1954.9	1972.4	1986.0	2001.0	2006.4	2019.5	2013.7	2019.5	2011.2	2009.8
50°	2145.0	2156.2	2171.2	2186.8	2202.8	2211.6	2228.6	2221.3	2229.1	2221.3	2216.9
52.5°	2338.6	2341.4	2374.5	2397.4	2419.7	2429.9	2440.1	2436.8	2437.3	2436.8	2432.4
55°	2522.3	2529.1	2562.2	2593.3	2632.3	2660.9	2678.4	2676.4	2672.2	2667.8	2660.4
57.5°	2729.4	2736.3	2774.2	2812.6	2856.9	2897.7	2933.2	2969.7	2983.8	2987.7	2971.7
60°	3009.6	3009.1	3059.6	3106.4	3169.6	3230.4	3308.1	3387.4	3478.3	3520.7	3464.7
62.5°	3294.5	3306.2	3379.1	3461.9	3592.2	3719.0	3862.6	4003.5	4147.5	4264.7	4140.2
65°	3260.6	3305.3	3413.7	3600.9	3841.6	4127.5	4436.8	4764.1	5059.7	5263.0	5035.0
67.5°	2825.8	2889.4	2999.9	3227.4	3528.5	3940.8	4460.2	5107.4	5859.7	6223.4	5772.6
70°	2048.3	2120.2	2235.9	2458.2	2756.2	3148.1	3712.3	4489.3	5485.3	5851.9	5355.4
72.5°	1019.3	1058.1	1129.6	1271.1	1496.8	1814.8	2326.4	3073.3	3954.4	4291.0	3837.2
75°	346.3	364.3	376.3	422.6	494.1	619.0	873.4	1343.5	2049.7	2457.1	2020.5
77.5°	199.9	200.4	208.6	216.9	229.0	242.6	276.7	363.2	628.3	892.3	650.2
80°	129.3	128.9	135.6	142.0	150.3	157.0	159.0	168.3	194.1	230.0	205.7
82.5°	67.1	75.4	90.4	98.7	114.3	117.2	113.3	109.9	116.2	120.6	123.5
85°	36.9	32.1	48.2	62.2	69.0	70.1	70.1	66.2	68.5	67.1	72.9
87.5°	17.0	15.5	18.9	30.6	32.5	27.7	29.2	25.8	18.5	18.0	20.5
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°	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1048.9	1049.3	1049.3	1050.9	1051.3	1052.3	1053.3	1053.7
5°	1040.6	1042.1	1041.2	1042.6	1042.6	1043.5	1043.5	1044.0
7.5°	1028.5	1029.9	1029.9	1029.9	1029.5	1030.9	1030.9	1030.9
10°	1015.8	1016.8	1016.3	1015.4	1014.4	1015.8	1015.4	1014.9
12.5°	1011.9	1009.6	1007.6	1006.6	1004.6	1005.2	1003.7	1003.7
15°	1014.4	1010.0	1006.6	1005.2	1003.2	1002.2	1001.3	1001.8
17.5°	1020.7	1015.4	1011.0	1008.5	1006.1	1004.6	1002.7	1003.2
20°	1031.9	1025.6	1019.3	1014.4	1010.0	1007.6	1006.1	1005.7
22.5°	1048.4	1039.2	1029.9	1022.6	1016.8	1013.4	1011.9	1011.0
25°	1067.3	1057.2	1046.5	1038.2	1032.4	1028.0	1025.1	1025.1
27.5°	1091.2	1082.9	1073.2	1063.5	1058.1	1053.7	1051.8	1050.9
30°	1131.1	1123.3	1115.5	1106.3	1099.5	1095.1	1091.7	1088.8
32.5°	1182.1	1175.8	1169.5	1162.7	1156.3	1150.5	1145.2	1142.7
35°	1254.1	1249.2	1244.8	1237.1	1234.7	1231.2	1228.4	1225.9
37.5°	1353.4	1351.4	1351.4	1343.1	1341.2	1339.7	1336.8	1337.3
40°	1483.7	1485.6	1483.2	1480.2	1478.8	1474.9	1474.9	1478.3
42.5°	1637.7	1639.3	1644.6	1639.7	1645.1	1640.2	1637.3	1639.7
45°	1816.8	1822.1	1832.8	1827.9	1831.3	1823.1	1812.9	1813.4
47.5°	2017.6	2022.5	2026.8	2023.4	2023.9	2010.3	1996.7	1993.2
50°	2226.1	2228.1	2230.5	2225.7	2226.7	2211.6	2196.1	2196.5
52.5°	2432.4	2441.6	2451.3	2438.2	2435.3	2418.3	2396.4	2387.7
55°	2668.3	2681.4	2670.2	2647.3	2624.5	2601.6	2572.9	2568.0
57.5°	2959.0	2936.7	2901.6	2858.3	2826.7	2794.6	2765.4	2753.3
60°	3363.6	3279.5	3216.3	3152.0	3111.7	3072.3	3033.9	3028.0
62.5°	3935.5	3790.0	3664.1	3531.3	3422.9	3338.3	3270.7	3251.8
65°	4652.3	4308.5	4010.4	3732.2	3490.5	3308.1	3193.4	3142.8
67.5°	4960.5	4281.7	3770.6	3375.7	3059.6	2838.9	2714.9	2653.1
70°	4359.0	3550.8	2995.0	2599.6	2311.8	2076.4	1964.1	1898.0
72.5°	2998.9	2258.8	1786.1	1457.9	1227.8	1030.9	953.1	947.3
75°	1346.5	891.8	614.7	473.6	398.7	346.7	330.7	318.5
77.5°	376.9	278.7	248.5	232.4	216.9	198.9	192.1	193.5
80°	183.3	173.1	166.3	156.1	142.0	126.9	120.1	123.1
82.5°	121.5	120.1	124.5	117.2	96.8	82.1	69.0	63.2
85°	74.0	74.9	76.3	76.8	65.2	45.7	31.1	35.0
87.5°	29.2	33.6	36.5	38.0	35.5	21.9	17.5	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)