

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: P268322

Luminaire Tested: **GAN-AF-03-LED-U-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268322
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-03-LED-U-5MQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10927.8 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - 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

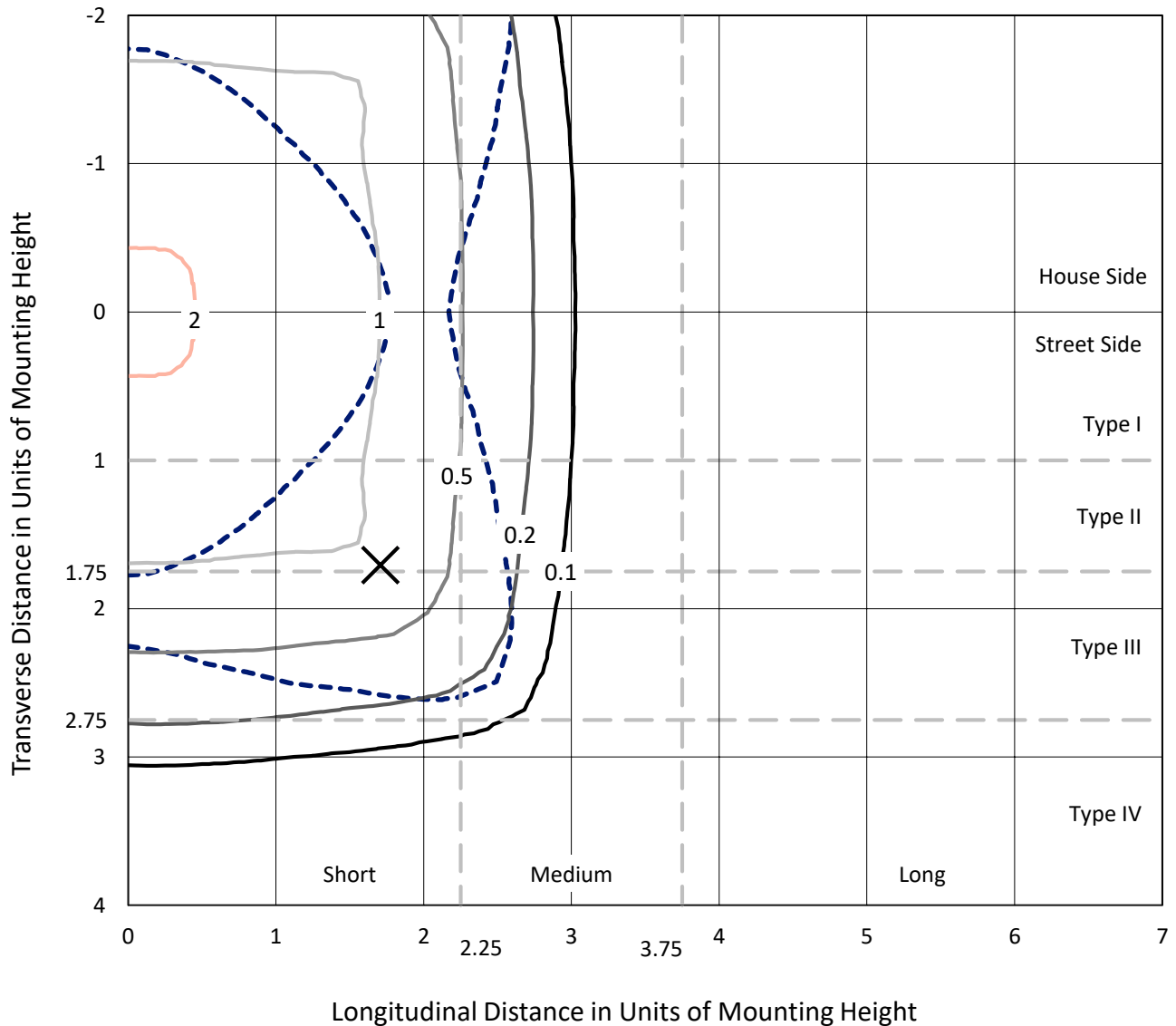


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

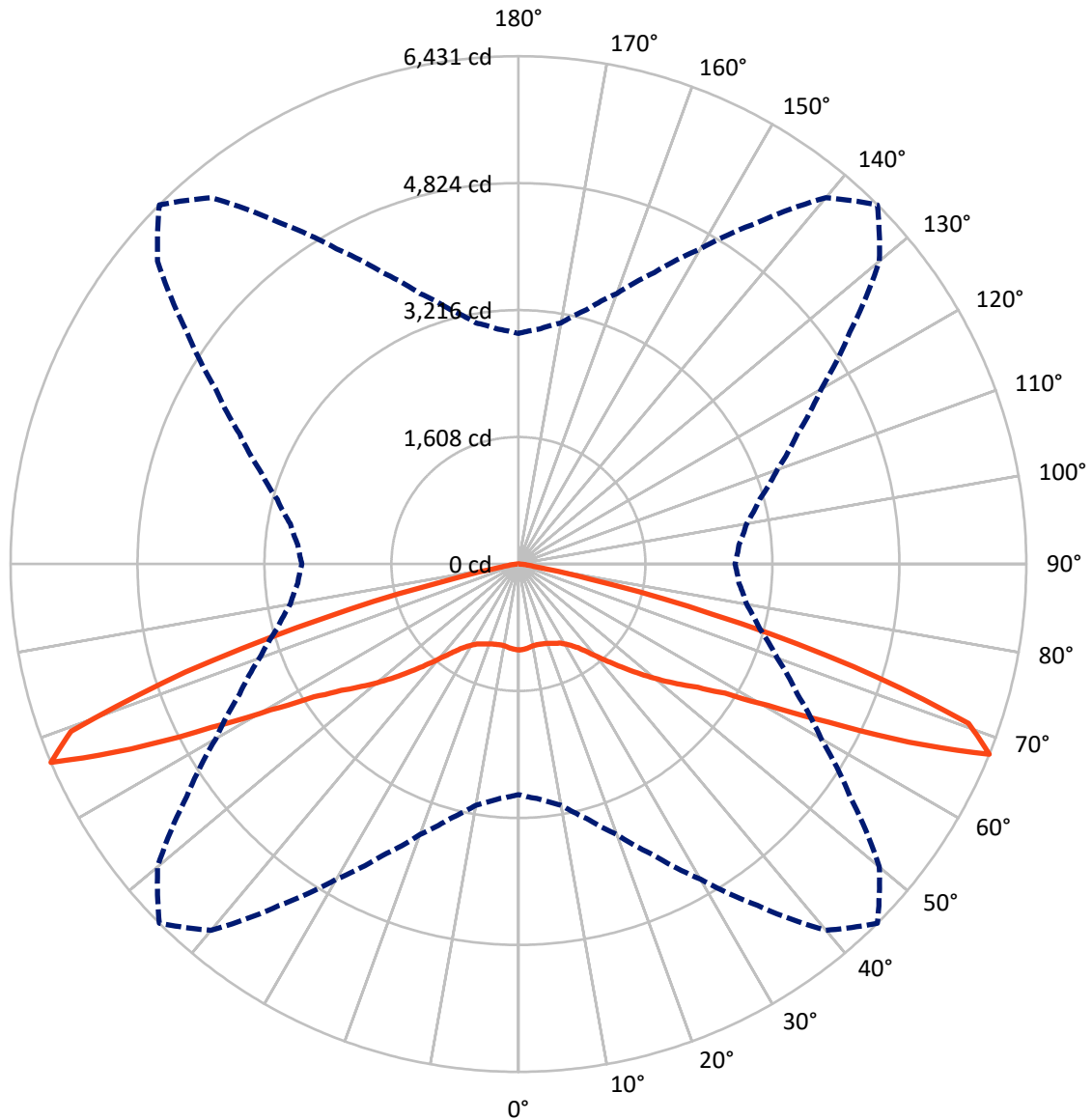


Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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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	5463.9	0.0	5463.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5463.9	0.0	5463.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	10927.8	0.0	10927.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	0.9
10°-20°	295.8	2.7
20°-30°	502.8	4.6
30°-40°	821.9	7.5
40°-50°	1467.3	13.4
50°-60°	2473.9	22.6
60°-70°	3839.1	35.1
70°-80°	1348.9	12.3
80°-90°	76.2	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°	10927.8	100.0
0°-180°	10927.8	100.0



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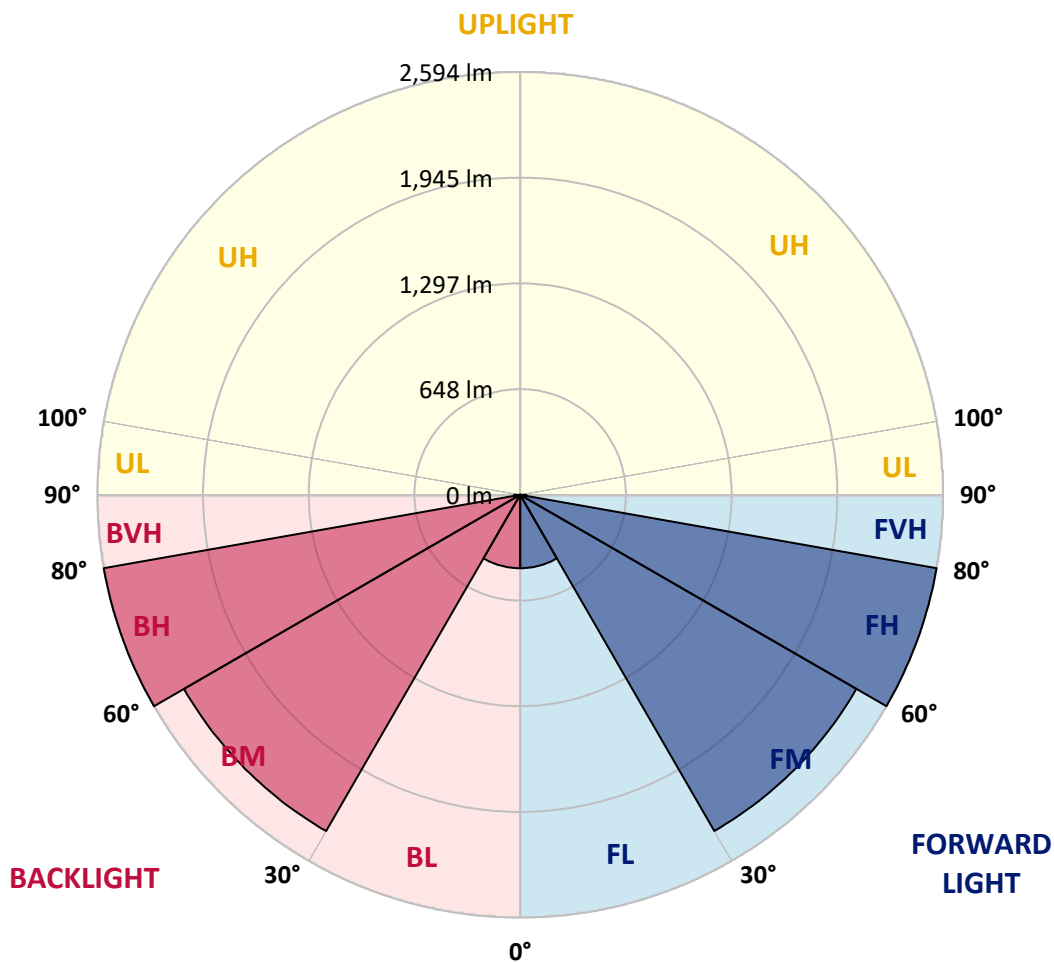
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.2	4.1			
FM	(30°-60°)	2381.6	21.8			
FH	(60°-80°)	2594.0	23.7			G2/5000
FVH	(80°-90°)	38.1	0.3			G1/100
BL	(0°-30°)	450.2	4.1	B1/500		
BM	(30°-60°)	2381.6	21.8	B2/2500		
BH	(60°-80°)	2594.0	23.7	B4/5000		G2/5000
BVH	(80°-90°)	38.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1085.1	1086.1	1086.1	1086.1	1085.5	1085.5	1084.4	1085.5	1085.1	1083.4	1084.0
5°	1075.9	1077.0	1077.0	1076.3	1078.0	1077.4	1075.9	1077.0	1076.3	1075.5	1075.9
7.5°	1062.9	1064.4	1064.4	1063.9	1065.4	1064.9	1063.9	1064.4	1064.4	1062.9	1062.9
10°	1048.3	1049.3	1049.3	1048.9	1051.2	1051.2	1050.7	1052.4	1052.9	1051.2	1050.3
12.5°	1034.8	1036.3	1036.3	1038.3	1040.7	1041.8	1044.3	1046.3	1048.3	1047.9	1045.7
15°	1026.8	1027.8	1029.6	1032.2	1036.3	1039.8	1043.8	1048.3	1052.4	1053.4	1050.3
17.5°	1021.6	1023.2	1026.1	1029.6	1035.2	1041.2	1047.3	1053.4	1058.8	1060.9	1057.3
20°	1020.1	1021.2	1024.2	1030.1	1037.7	1046.7	1055.2	1062.3	1069.9	1072.4	1069.9
22.5°	1023.2	1025.1	1028.6	1035.7	1045.7	1057.3	1067.4	1077.0	1086.5	1091.0	1087.5
25°	1036.7	1038.7	1043.3	1052.4	1063.4	1075.5	1086.9	1098.1	1106.6	1111.2	1108.6
27.5°	1061.8	1064.4	1069.9	1079.0	1091.0	1104.0	1116.7	1125.7	1132.8	1134.2	1131.2
30°	1099.5	1105.0	1111.7	1121.7	1135.7	1146.7	1159.4	1167.3	1175.9	1175.9	1173.5
32.5°	1158.4	1163.8	1170.9	1180.5	1191.5	1203.5	1214.7	1221.7	1230.7	1231.2	1225.2
35°	1246.3	1248.9	1254.8	1261.0	1270.9	1281.5	1291.0	1295.5	1303.1	1303.6	1298.1
37.5°	1362.4	1362.9	1367.0	1368.8	1378.0	1389.5	1398.7	1401.5	1408.6	1407.6	1402.1
40°	1497.6	1500.1	1501.5	1504.7	1514.2	1525.2	1534.8	1536.2	1543.7	1542.3	1535.3
42.5°	1653.9	1654.9	1663.4	1668.0	1677.0	1682.4	1694.6	1696.1	1705.2	1701.1	1693.0
45°	1829.3	1838.3	1846.3	1855.4	1864.9	1871.4	1881.1	1879.0	1885.1	1879.0	1874.5
47.5°	2013.7	2020.2	2038.3	2052.4	2068.0	2073.5	2087.0	2081.1	2087.0	2078.5	2077.1
50°	2216.7	2228.2	2243.8	2260.0	2276.6	2285.6	2303.2	2295.6	2303.7	2295.6	2291.0
52.5°	2416.7	2419.8	2453.9	2477.5	2500.6	2511.2	2521.7	2518.2	2518.8	2518.2	2513.6
55°	2606.7	2613.7	2647.8	2680.1	2720.2	2749.9	2767.9	2766.1	2761.5	2756.9	2749.4
57.5°	2820.8	2827.8	2867.0	2906.6	2952.4	2994.6	3031.3	3069.0	3083.6	3087.7	3071.0
60°	3110.2	3109.8	3161.9	3210.3	3275.6	3338.5	3418.8	3500.7	3594.7	3638.3	3580.6
62.5°	3404.7	3416.8	3492.2	3577.6	3712.2	3843.4	3991.7	4137.5	4286.2	4407.3	4278.5
65°	3369.5	3415.7	3527.9	3721.3	3970.1	4265.5	4585.2	4923.4	5228.9	5439.0	5203.3
67.5°	2920.3	2986.1	3100.2	3335.3	3646.4	4072.6	4609.4	5278.3	6055.7	6431.4	5965.6
70°	2116.6	2191.1	2310.7	2540.3	2848.3	3253.4	3836.4	4639.4	5668.7	6047.6	5534.5
72.5°	1053.4	1093.5	1167.3	1313.6	1546.8	1875.5	2404.1	3176.0	4086.7	4434.5	3965.6
75°	357.9	376.4	389.0	436.7	510.5	639.8	902.5	1388.5	2118.3	2539.2	2088.0
77.5°	206.5	207.1	215.7	224.1	236.8	250.7	285.9	375.4	649.3	922.2	671.9
80°	133.7	133.2	140.2	146.8	155.2	162.4	164.3	173.9	200.5	237.7	212.5
82.5°	69.3	78.0	93.5	102.0	118.0	121.1	117.0	113.5	120.2	124.7	127.6
85°	38.2	33.1	49.8	64.3	71.3	72.4	72.4	68.4	70.8	69.3	75.4
87.5°	17.5	16.1	19.7	31.7	33.6	28.7	30.2	26.6	19.1	18.5	21.1
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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1084.0	1084.4	1084.4	1086.1	1086.5	1087.5	1088.4	1089.0
5°	1075.5	1077.0	1075.9	1077.4	1077.4	1078.4	1078.4	1079.0
7.5°	1062.9	1064.4	1064.4	1064.4	1063.9	1065.4	1065.4	1065.4
10°	1049.8	1050.7	1050.3	1049.3	1048.3	1049.8	1049.3	1048.9
12.5°	1045.7	1043.3	1041.2	1040.2	1038.3	1038.7	1037.3	1037.3
15°	1048.3	1043.8	1040.2	1038.7	1036.7	1035.7	1034.8	1035.2
17.5°	1054.8	1049.3	1044.8	1042.3	1039.8	1038.3	1036.3	1036.7
20°	1066.4	1059.9	1053.4	1048.3	1043.8	1041.2	1039.8	1039.2
22.5°	1083.4	1074.0	1064.4	1056.9	1050.7	1047.3	1045.7	1044.8
25°	1103.1	1092.5	1081.5	1072.9	1066.8	1062.3	1059.3	1059.3
27.5°	1127.7	1119.2	1109.0	1099.0	1093.5	1089.0	1086.9	1086.1
30°	1169.0	1160.9	1152.9	1143.3	1136.3	1131.8	1128.2	1125.1
32.5°	1221.7	1215.1	1208.6	1201.6	1195.0	1188.9	1183.4	1180.9
35°	1296.1	1291.0	1286.6	1278.5	1276.0	1272.4	1269.5	1266.9
37.5°	1398.7	1396.5	1396.5	1388.1	1386.1	1384.5	1381.5	1382.0
40°	1533.2	1535.3	1532.8	1529.8	1528.2	1524.2	1524.2	1527.7
42.5°	1692.5	1694.1	1699.7	1694.6	1700.1	1695.0	1692.0	1694.6
45°	1877.5	1882.9	1894.0	1889.0	1892.5	1884.0	1873.4	1874.0
47.5°	2085.1	2090.0	2094.6	2091.1	2091.6	2077.5	2063.4	2060.0
50°	2300.6	2302.6	2305.1	2300.1	2301.1	2285.6	2269.5	2269.9
52.5°	2513.6	2523.2	2533.3	2519.7	2516.7	2499.2	2476.4	2467.5
55°	2757.4	2771.0	2759.5	2735.8	2712.3	2688.5	2659.0	2654.0
57.5°	3057.9	3034.8	2998.6	2953.9	2921.3	2888.1	2858.0	2845.4
60°	3476.1	3389.1	3323.8	3257.4	3215.8	3175.1	3135.4	3129.3
62.5°	4067.0	3916.8	3786.6	3649.5	3537.3	3449.9	3380.1	3360.5
65°	4807.8	4452.4	4144.4	3857.1	3607.2	3418.8	3300.2	3247.9
67.5°	5126.4	4424.8	3896.7	3488.7	3161.9	2933.9	2805.6	2741.8
70°	4504.8	3669.5	3095.1	2686.7	2389.0	2145.8	2029.8	1961.4
72.5°	3099.2	2334.2	1845.8	1506.5	1268.9	1065.4	985.0	979.0
75°	1391.6	921.7	635.2	489.4	412.1	358.3	341.7	329.1
77.5°	389.4	287.9	256.7	240.1	224.1	205.5	198.4	200.1
80°	189.5	178.9	171.8	161.3	146.8	131.2	124.1	127.1
82.5°	125.7	124.1	128.6	121.1	100.0	84.9	71.3	65.3
85°	76.4	77.4	79.0	79.4	67.4	47.3	32.2	36.2
87.5°	30.2	34.7	37.6	39.2	36.7	22.5	18.1	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)