

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: P192621

Luminaire Tested: **GAN-AF-03-LED-U-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14957.6 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 124
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

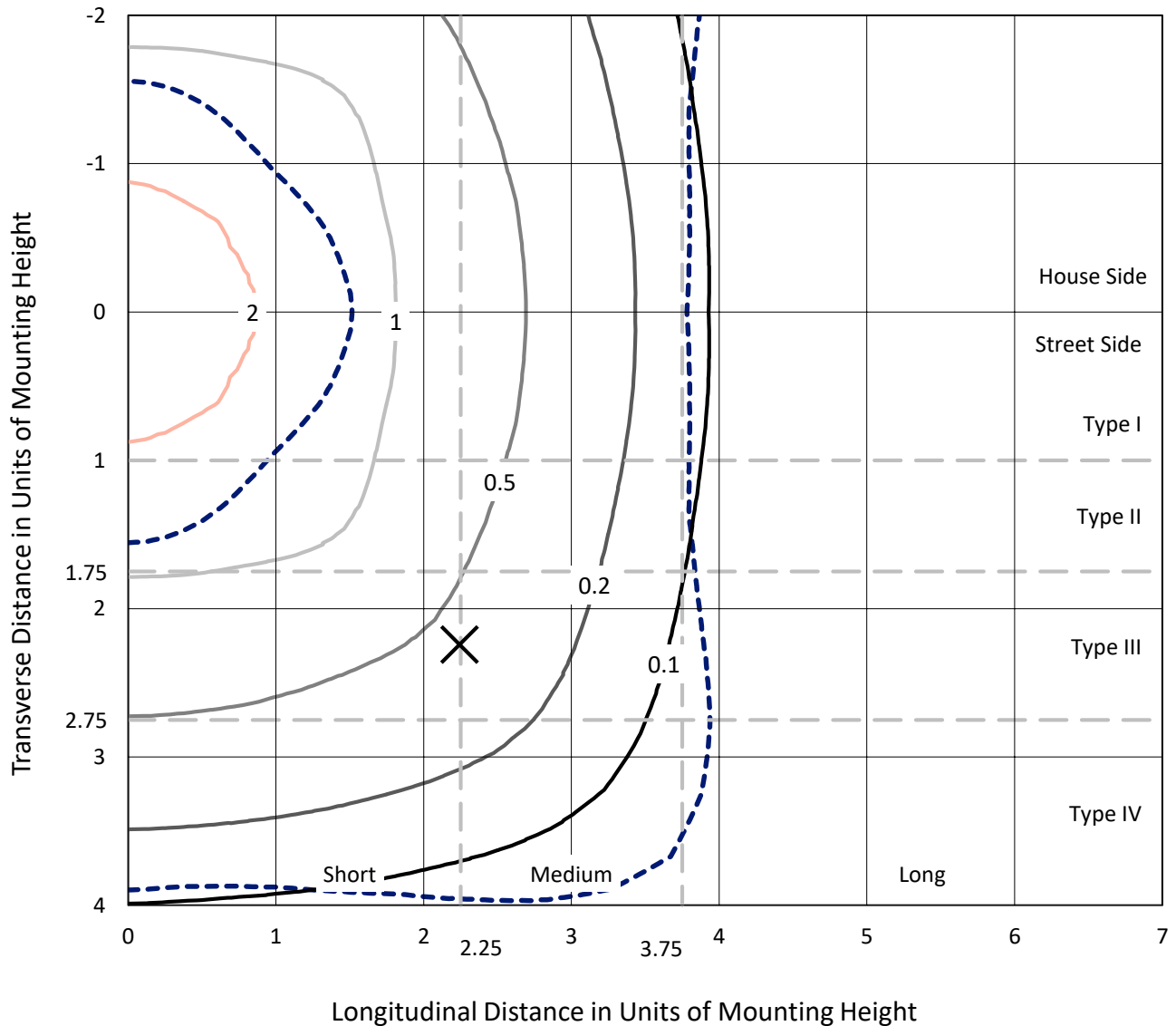


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

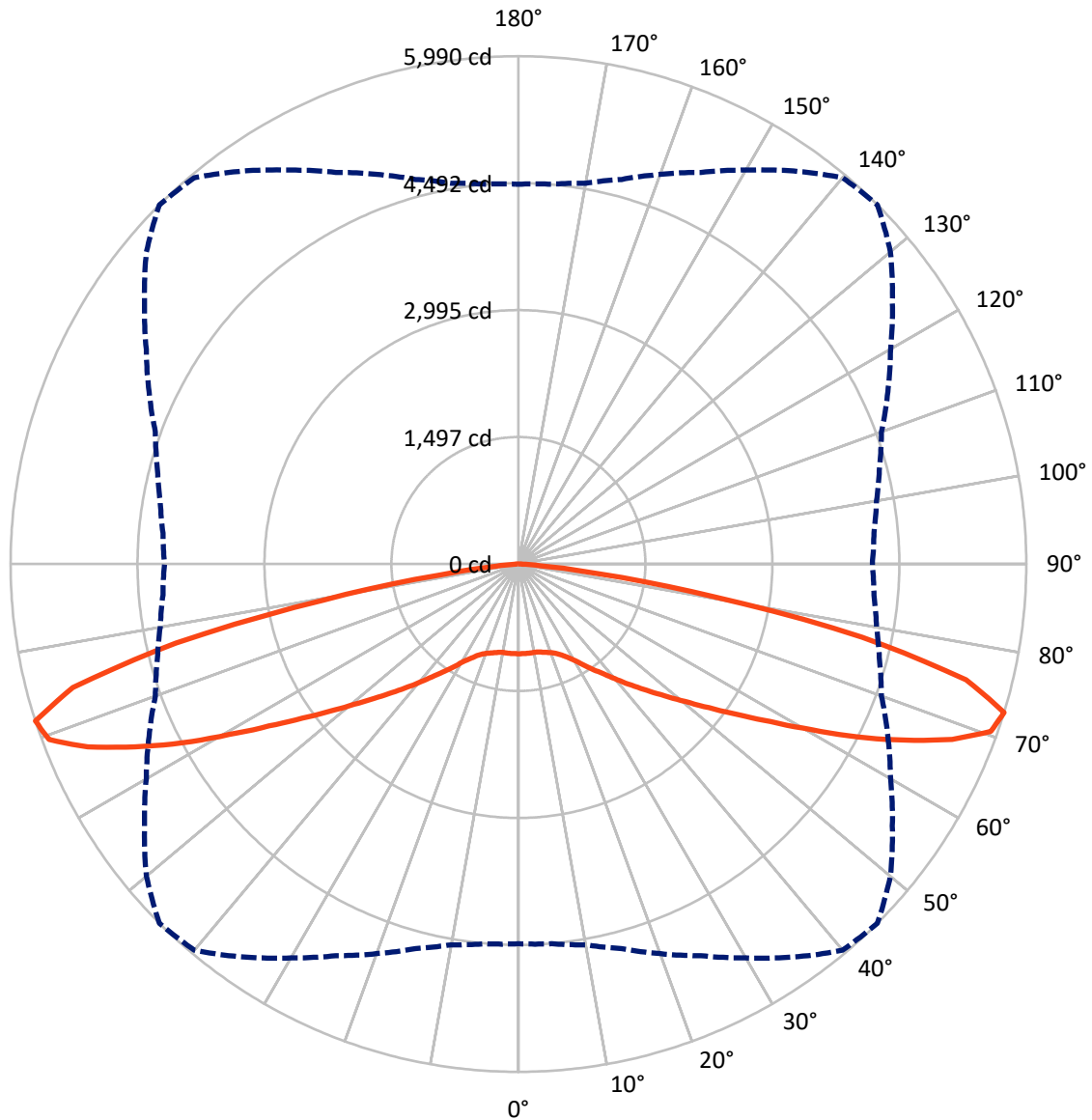


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7478.8	0.0	7478.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7478.8	0.0	7478.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	14957.6	0.0	14957.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	0.7
10°-20°	307.2	2.1
20°-30°	561.3	3.8
30°-40°	967.9	6.5
40°-50°	1654.6	11.1
50°-60°	2681.8	17.9
60°-70°	4449.1	29.7
70°-80°	3918.6	26.2
80°-90°	315.9	2.1
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°	14957.6	100.0
0°-180°	14957.6	100.0



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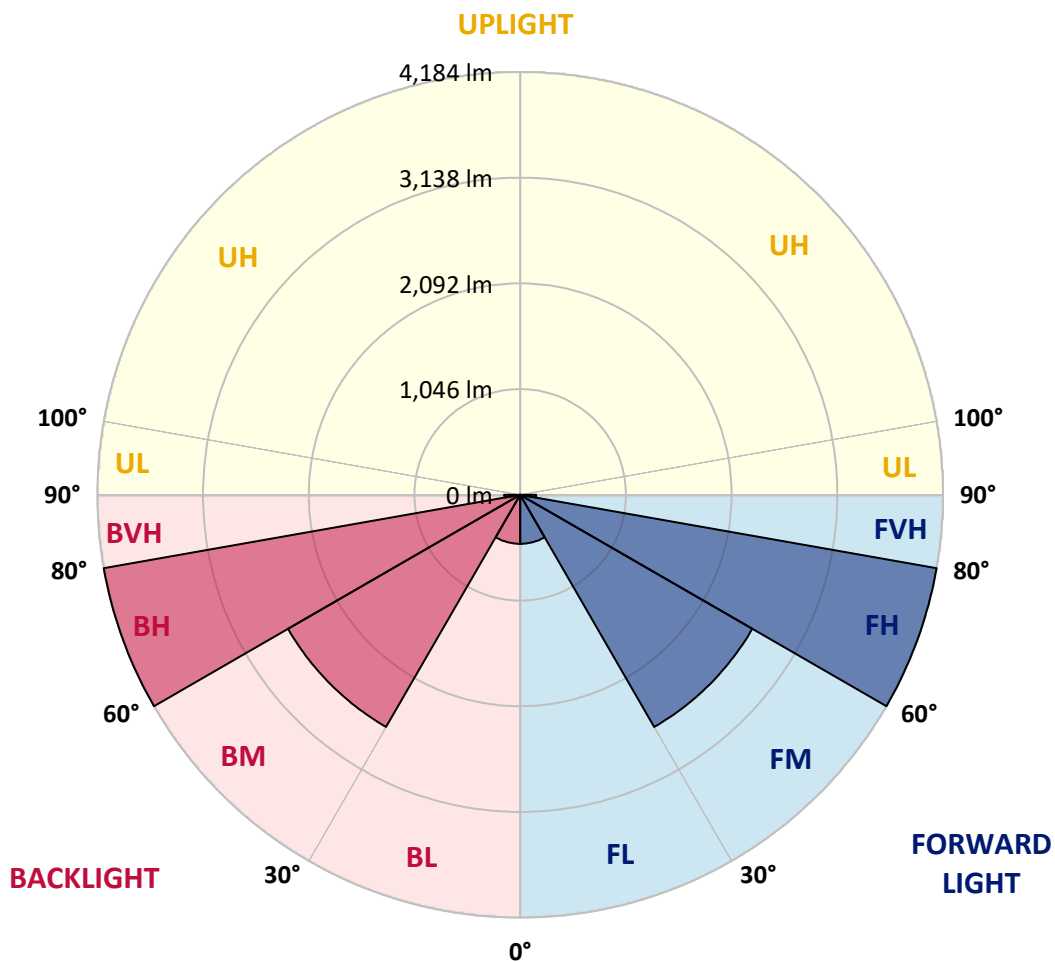
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.8	3.2			
FM (30°-60°)	2652.1	17.7			
FH (60°-80°)	4183.8	28.0			G2/5000
FVH (80°-90°)	158.0	1.1			G2/225
BL (0°-30°)	484.8	3.2	B1/500		
BM (30°-60°)	2652.1	17.7	B3/5000		
BH (60°-80°)	4183.8	28.0	B4/5000		G2/5000
BVH (80°-90°)	158.0	1.1			G2/225
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°	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3
2.5°	1059.3	1060.0	1060.6	1060.0	1060.0	1059.3	1058.5	1059.3	1058.5	1057.2	1057.8
5°	1062.6	1064.0	1064.0	1062.6	1063.3	1062.6	1061.2	1062.0	1060.6	1058.5	1058.5
7.5°	1066.8	1067.5	1067.5	1066.1	1066.8	1065.4	1064.0	1063.3	1062.0	1059.3	1057.2
10°	1072.9	1073.7	1072.9	1071.7	1071.7	1069.5	1066.1	1064.7	1062.0	1057.8	1055.8
12.5°	1079.8	1080.5	1079.8	1078.4	1077.8	1074.3	1071.7	1069.5	1067.5	1064.0	1060.6
15°	1089.5	1090.7	1089.5	1086.7	1084.6	1081.8	1080.5	1081.2	1081.8	1079.2	1075.6
17.5°	1107.3	1107.9	1105.9	1099.7	1097.0	1094.2	1094.2	1095.6	1097.6	1096.3	1092.8
20°	1140.2	1138.2	1133.3	1125.8	1122.3	1117.5	1116.8	1117.5	1117.5	1116.8	1114.1
22.5°	1181.3	1180.0	1173.8	1164.1	1159.4	1156.6	1152.5	1149.1	1148.5	1146.3	1143.6
25°	1230.7	1230.0	1222.5	1214.3	1210.8	1207.5	1203.9	1199.2	1195.1	1190.3	1187.5
27.5°	1293.8	1291.1	1280.1	1276.0	1271.2	1269.1	1264.3	1258.8	1255.4	1249.3	1245.9
30°	1363.1	1363.1	1354.3	1352.8	1352.8	1348.0	1342.6	1333.0	1326.7	1320.6	1318.5
32.5°	1432.4	1433.2	1424.2	1426.9	1429.0	1432.4	1433.8	1430.4	1426.3	1425.7	1421.5
35°	1532.6	1529.8	1520.9	1523.0	1522.3	1521.7	1521.7	1529.2	1530.5	1532.0	1523.6
37.5°	1656.8	1656.8	1647.8	1647.8	1643.7	1639.7	1634.1	1638.9	1646.4	1648.5	1643.0
40°	1798.7	1803.6	1792.6	1792.0	1793.3	1780.3	1774.1	1781.6	1786.4	1794.7	1788.5
42.5°	1966.1	1962.8	1951.8	1950.4	1942.8	1938.7	1933.3	1939.4	1947.0	1952.5	1954.5
45°	2126.7	2124.0	2111.7	2111.7	2104.0	2100.6	2103.3	2113.6	2117.1	2124.6	2132.2
47.5°	2285.1	2281.8	2273.4	2277.0	2277.6	2283.8	2292.7	2302.3	2311.9	2322.2	2325.7
50°	2447.1	2447.7	2438.8	2447.1	2457.3	2474.5	2498.5	2514.3	2534.2	2547.3	2551.3
52.5°	2594.6	2597.3	2606.9	2626.1	2646.7	2680.3	2721.4	2759.9	2792.7	2814.7	2813.4
55°	2771.6	2775.6	2799.0	2831.9	2865.6	2916.3	2977.4	3045.3	3100.1	3131.7	3111.8
57.5°	2998.0	3006.9	3032.9	3077.5	3127.6	3193.4	3277.1	3379.4	3464.5	3507.0	3474.8
60°	3308.7	3314.2	3345.7	3395.1	3455.6	3537.2	3649.0	3786.2	3906.2	3962.5	3925.4
62.5°	3718.3	3728.6	3753.9	3804.1	3865.8	3958.4	4094.9	4266.5	4415.9	4494.2	4410.5
65°	4207.5	4240.4	4261.6	4312.4	4370.1	4468.1	4610.8	4794.7	4955.2	5006.7	4909.9
67.5°	4691.8	4720.5	4757.5	4815.9	4874.3	4984.7	5117.0	5295.5	5471.8	5518.4	5368.2
70°	4903.8	4920.2	4977.9	5057.4	5169.3	5299.6	5452.6	5652.8	5871.0	5909.5	5718.7
72.5°	4479.1	4495.6	4560.1	4695.2	4890.0	5097.2	5364.1	5658.4	5946.6	5989.7	5727.0
75°	3387.6	3360.9	3456.2	3635.3	3898.1	4186.9	4560.1	4981.9	5398.4	5452.6	5139.0
77.5°	1750.8	1747.3	1819.3	2041.6	2355.2	2683.7	3094.7	3571.4	3979.0	4143.6	3888.4
80°	493.3	498.8	533.0	643.5	826.6	1064.0	1385.1	1831.7	2165.1	2335.2	2192.5
82.5°	193.5	208.5	221.6	242.1	266.1	301.1	402.0	598.2	802.6	959.1	785.5
85°	69.3	74.1	105.0	124.1	126.2	133.1	151.7	177.0	213.4	254.5	209.2
87.5°	26.1	28.9	33.7	55.6	54.8	50.0	61.0	63.8	48.1	43.9	54.2
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°	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3
2.5°	1056.5	1057.2	1057.2	1057.8	1058.5	1058.5	1060.0	1060.0
5°	1057.2	1057.2	1055.8	1056.5	1055.8	1055.8	1056.5	1056.5
7.5°	1055.8	1055.1	1053.7	1053.0	1051.7	1051.7	1051.7	1051.7
10°	1053.7	1053.0	1051.7	1051.0	1050.3	1050.3	1050.3	1050.3
12.5°	1059.3	1057.2	1055.8	1055.1	1055.1	1055.1	1055.1	1055.1
15°	1073.7	1068.9	1065.4	1065.4	1066.1	1067.5	1067.5	1068.9
17.5°	1091.5	1086.0	1082.5	1079.8	1081.2	1083.2	1084.6	1086.0
20°	1112.7	1110.0	1105.1	1102.4	1102.4	1105.1	1106.6	1107.3
22.5°	1142.2	1140.2	1138.2	1134.6	1134.6	1136.1	1138.8	1138.8
25°	1186.1	1184.8	1183.4	1180.6	1180.0	1180.0	1181.3	1182.7
27.5°	1241.0	1241.7	1240.3	1239.6	1237.6	1237.0	1239.0	1238.2
30°	1314.4	1317.8	1321.3	1318.5	1315.2	1313.1	1311.0	1308.3
32.5°	1414.0	1409.8	1407.0	1402.3	1396.2	1390.6	1386.5	1381.7
35°	1507.9	1501.0	1498.3	1502.5	1501.8	1498.3	1493.5	1489.4
37.5°	1623.1	1621.7	1623.1	1630.7	1629.3	1632.8	1623.1	1622.5
40°	1768.6	1770.0	1779.7	1788.5	1793.3	1798.1	1792.6	1787.2
42.5°	1937.3	1936.6	1940.1	1952.5	1960.6	1966.1	1954.5	1953.1
45°	2115.7	2110.9	2113.6	2124.0	2132.2	2138.3	2125.3	2125.3
47.5°	2311.9	2303.7	2294.8	2306.5	2311.3	2315.3	2305.1	2301.6
50°	2530.8	2513.6	2494.4	2499.2	2499.2	2497.8	2484.8	2484.1
52.5°	2781.8	2750.3	2715.3	2702.3	2694.8	2686.4	2663.8	2653.0
55°	3070.6	3023.3	2968.5	2934.8	2917.0	2894.4	2856.6	2846.3
57.5°	3408.3	3334.1	3239.4	3198.2	3158.4	3121.4	3079.6	3067.9
60°	3808.1	3699.1	3573.6	3497.4	3454.1	3418.5	3375.2	3373.2
62.5°	4254.1	4081.9	3939.9	3871.3	3839.7	3808.1	3767.0	3772.5
65°	4707.6	4527.8	4394.7	4339.1	4309.6	4283.6	4242.4	4248.5
67.5°	5154.9	4989.6	4843.4	4786.4	4753.6	4720.5	4683.5	4689.7
70°	5475.8	5270.7	5106.1	4979.9	4901.1	4811.8	4754.2	4739.7
72.5°	5384.0	5067.7	4806.4	4555.9	4409.1	4289.7	4208.7	4173.8
75°	4659.5	4227.3	3891.2	3583.8	3411.0	3270.3	3168.1	3104.3
77.5°	3460.3	2974.6	2577.4	2223.4	1943.5	1755.6	1623.1	1537.4
80°	1894.1	1440.7	1053.0	740.2	544.0	452.2	399.3	373.8
82.5°	590.0	380.8	280.6	242.1	225.0	215.5	199.6	174.3
85°	187.9	164.7	153.0	146.1	139.3	121.4	83.7	76.2
87.5°	72.7	74.8	74.1	69.9	71.3	51.5	41.2	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)