

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: P318385

Luminaire Tested: **GAN-SA1A-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4880 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

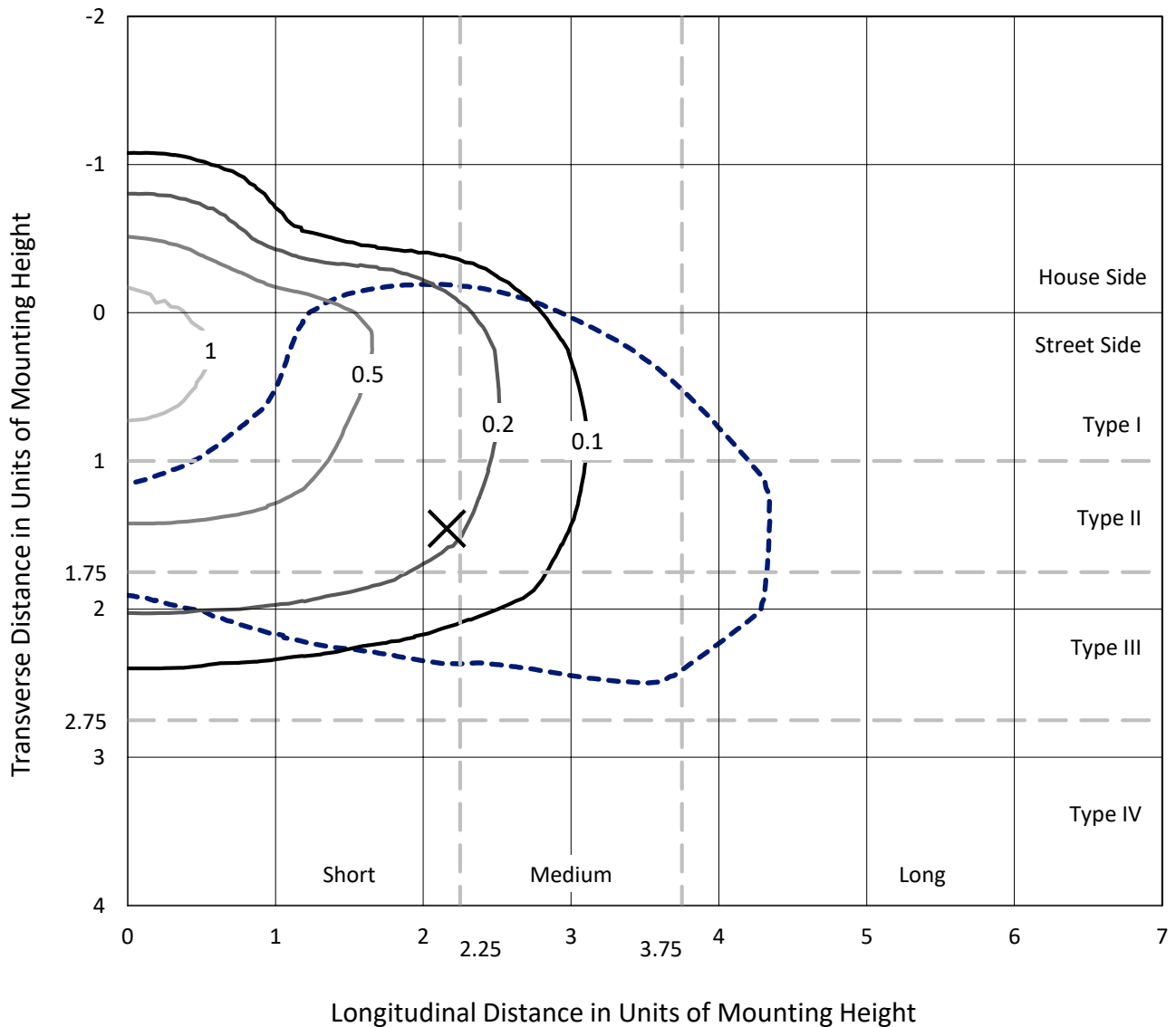
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

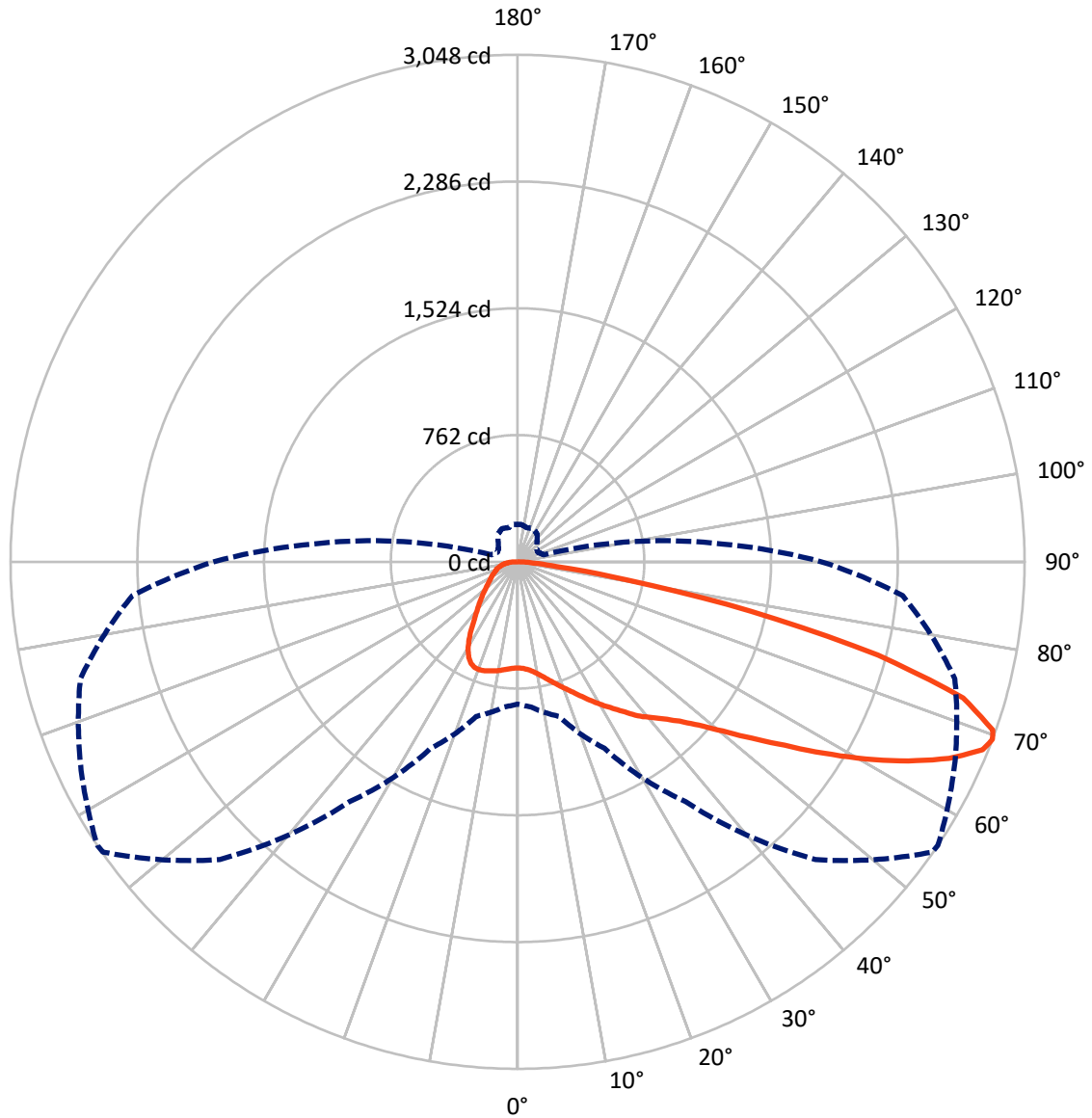
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1086.8	0.0	1086.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	3793.2	0.0	3793.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	4880.0	0.0	4880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.3
10°-20°	201.5	4.1
20°-30°	351.7	7.2
30°-40°	505.2	10.4
40°-50°	699.2	14.3
50°-60°	1024.5	21.0
60°-70°	1249.0	25.6
70°-80°	690.5	14.2
80°-90°	95.6	2.0
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°	4880.0	100.0
0°-180°	4880.0	100.0

Coefficient of Utilization

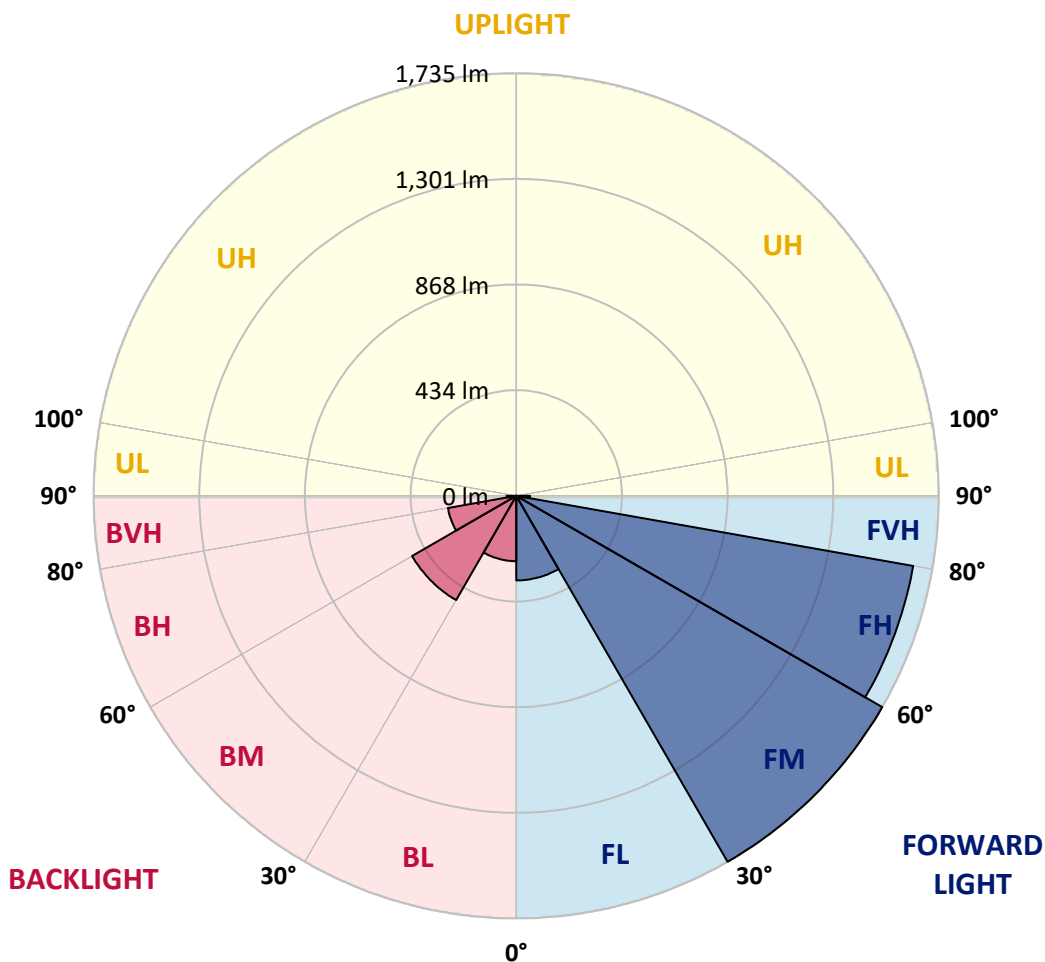


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.3	7.1			
FM (30°-60°)	1735.0	35.6			
FH (60°-80°)	1654.6	33.9			G1/1800
FVH (80°-90°)	56.3	1.2			G1/100
BL (0°-30°)	268.6	5.5	B1/500		
BM (30°-60°)	493.9	10.1	B1/1000		
BH (60°-80°)	285.0	5.8	B1/500		G1/500
BVH (80°-90°)	39.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
2.5°	642.0	642.7	642.2	643.5	642.0	643.0	642.2	642.2	641.7	640.2	638.5
5°	652.1	653.5	652.6	654.0	652.1	652.4	650.9	650.9	649.4	646.2	642.9
7.5°	667.9	669.4	668.8	670.1	667.6	667.6	665.6	665.4	662.4	657.2	653.3
10°	686.7	688.8	688.1	690.1	688.1	688.8	686.7	686.7	682.7	675.3	670.4
12.5°	714.1	716.7	714.8	714.6	713.8	715.2	713.5	713.1	709.4	699.3	692.6
15°	750.8	753.5	749.6	749.3	744.6	744.1	744.1	743.6	741.2	729.1	718.0
17.5°	793.0	793.8	790.5	785.1	779.0	775.2	774.7	776.0	776.0	761.9	744.2
20°	834.3	835.9	833.2	827.1	819.4	813.7	809.6	812.3	812.2	795.3	770.3
22.5°	879.4	882.9	878.9	871.2	862.1	855.7	848.6	851.0	851.2	830.5	795.8
25°	937.7	934.5	932.0	921.1	908.1	901.6	895.0	897.4	896.7	868.3	822.2
27.5°	989.3	990.0	986.7	975.1	960.1	945.6	945.3	946.8	944.3	907.6	847.1
30°	1049.4	1049.7	1045.0	1034.6	1018.3	999.6	995.2	997.7	992.4	945.0	873.3
32.5°	1109.0	1110.7	1105.5	1092.9	1079.8	1057.1	1048.3	1050.0	1036.6	983.1	900.4
35°	1161.3	1163.7	1162.0	1153.6	1139.3	1119.8	1109.4	1108.4	1091.7	1029.9	936.2
37.5°	1214.6	1216.8	1214.9	1207.9	1202.2	1181.5	1175.9	1175.9	1147.0	1077.6	981.8
40°	1269.4	1272.8	1270.6	1260.8	1256.0	1246.6	1233.3	1230.1	1198.8	1134.9	1056.1
42.5°	1320.4	1324.7	1333.5	1327.8	1317.8	1319.2	1292.4	1290.8	1267.9	1219.7	1149.4
45°	1392.6	1399.0	1413.8	1409.5	1407.4	1400.0	1368.3	1366.8	1358.0	1333.6	1265.2
47.5°	1471.5	1480.2	1507.0	1507.8	1529.5	1515.5	1472.3	1467.1	1469.1	1470.1	1406.6
50°	1544.1	1553.7	1597.6	1618.2	1669.4	1672.4	1603.3	1598.6	1606.5	1629.7	1571.3
52.5°	1602.1	1614.2	1669.0	1732.9	1820.5	1845.4	1764.5	1761.0	1766.9	1806.9	1757.6
55°	1644.6	1657.8	1717.4	1833.8	1973.6	2017.5	1950.1	1946.7	1950.4	2001.4	1960.2
57.5°	1654.6	1657.8	1744.3	1901.7	2102.9	2208.3	2177.2	2170.5	2152.3	2196.7	2183.8
60°	1608.0	1620.8	1722.1	1925.6	2202.9	2396.4	2414.6	2406.2	2355.3	2391.6	2381.1
62.5°	1513.5	1536.4	1639.3	1889.2	2242.1	2550.1	2647.4	2637.3	2549.6	2573.1	2523.0
65°	1359.2	1368.9	1477.0	1764.0	2192.4	2648.4	2855.1	2850.0	2739.6	2702.7	2549.3
67.5°	1083.1	1101.5	1193.3	1502.3	1988.8	2636.8	3015.6	3015.1	2863.6	2750.8	2456.3
69°	855.7	874.7	962.1	1237.5	1759.8	2530.8	3042.5	3048.4	2898.6	2721.6	2323.5
70°	682.2	704.2	764.2	1042.3	1556.6	2390.9	3020.1	3030.7	2891.9	2673.3	2200.9
72.5°	290.3	308.2	350.9	537.3	948.7	1785.4	2761.4	2801.4	2736.0	2446.7	1819.0
75°	126.8	132.3	151.6	219.1	421.1	971.7	2163.3	2237.2	2339.5	2068.1	1355.0
77.5°	92.8	95.2	105.7	128.6	189.0	367.0	1391.1	1434.2	1687.2	1504.9	831.1
80°	71.8	73.5	81.7	94.5	123.4	148.4	634.5	671.4	948.7	773.0	346.1
82.5°	57.2	58.3	64.1	69.6	85.2	89.9	210.6	233.7	350.2	213.5	91.6
85°	53.1	54.5	56.5	50.8	54.6	52.8	91.1	95.3	105.7	83.9	38.3
87.5°	24.0	28.4	56.0	39.5	29.1	23.2	37.3	39.0	43.9	44.0	17.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
2.5°	639.5	639.0	639.8	637.8	640.3	640.2	639.3	639.7	641.3	641.2	641.3
5°	643.4	643.0	644.0	642.5	645.6	646.6	646.7	648.2	650.1	650.6	650.6
7.5°	653.1	653.1	653.6	651.6	653.6	653.5	652.6	654.1	656.0	656.1	656.0
10°	669.9	670.1	669.3	664.0	662.4	657.8	653.6	653.8	656.1	658.0	658.5
12.5°	691.1	690.4	686.7	677.2	670.1	660.8	656.5	656.3	658.7	660.2	660.7
15°	715.3	713.5	703.9	688.3	675.8	666.7	659.7	658.0	656.6	655.0	655.1
17.5°	738.2	734.0	718.0	696.3	683.2	671.1	657.5	646.6	639.0	634.6	633.3
20°	761.4	753.1	730.1	703.9	687.2	665.2	639.0	616.8	603.0	596.6	595.5
22.5°	782.6	769.3	741.4	711.8	684.0	645.4	604.2	571.9	552.8	544.2	544.9
25°	803.2	784.7	753.1	717.3	667.9	610.4	555.8	516.1	493.9	484.3	484.0
27.5°	821.4	800.4	765.9	712.8	637.8	560.7	498.5	459.8	441.3	433.1	431.7
30°	842.2	820.1	782.9	695.5	593.8	503.2	442.5	415.2	402.1	393.9	392.4
32.5°	867.6	846.8	796.9	664.0	537.5	443.1	398.8	379.8	367.8	358.6	356.9
35°	904.6	882.1	800.4	619.0	475.6	395.7	366.7	347.2	331.0	319.1	317.9
37.5°	951.0	926.3	792.3	560.7	415.6	365.0	339.9	315.9	294.9	278.1	275.4
40°	1017.9	980.6	770.0	493.4	371.4	341.3	313.9	286.5	260.4	240.7	236.9
42.5°	1098.3	1044.3	735.7	426.5	338.9	317.2	288.0	254.0	229.1	215.2	213.2
45°	1200.5	1110.6	688.1	368.0	307.0	293.2	260.1	228.8	213.3	203.1	201.4
47.5°	1317.2	1184.9	638.2	320.4	279.9	270.7	237.7	217.5	205.3	197.2	195.7
50°	1460.6	1268.7	585.2	281.4	252.7	243.6	227.1	211.3	201.6	195.3	193.8
52.5°	1622.3	1363.4	547.0	250.7	230.1	223.6	221.6	208.0	200.1	195.3	193.8
55°	1796.4	1459.7	505.9	224.8	210.6	212.5	217.9	208.3	202.9	197.2	195.0
57.5°	1970.8	1559.2	460.0	202.9	195.2	204.3	215.4	209.0	204.4	198.9	196.9
60°	2108.6	1622.3	388.8	184.6	182.9	195.2	209.3	203.9	198.0	198.2	197.9
62.5°	2173.0	1618.9	310.3	168.3	170.6	182.9	199.5	196.0	191.1	197.7	198.2
65°	2136.9	1538.2	241.6	153.5	157.5	170.1	189.5	192.2	193.8	206.4	208.1
67.5°	1985.2	1381.2	187.1	140.5	145.6	161.4	190.5	209.3	211.5	224.8	224.6
69°	1828.4	1233.9	162.6	133.8	139.7	163.6	203.6	220.2	212.0	226.1	224.1
70°	1696.9	1117.4	149.5	129.3	137.0	167.4	212.3	220.1	209.5	221.6	218.2
72.5°	1306.9	803.9	126.8	120.9	127.9	160.2	214.8	215.2	203.6	205.9	200.2
75°	896.4	508.0	110.6	109.4	114.1	144.4	206.8	205.6	188.3	184.9	180.2
77.5°	494.3	258.1	94.0	98.5	101.7	127.9	187.9	186.3	172.0	164.9	163.2
80°	190.6	113.0	79.3	87.6	89.6	110.8	164.8	163.2	151.3	142.2	139.7
82.5°	72.0	59.2	65.6	75.8	75.1	91.5	139.5	138.7	127.1	113.8	109.8
85°	33.3	35.5	51.9	62.5	57.7	67.7	111.6	113.1	99.0	83.2	83.2
87.5°	14.1	19.8	36.8	47.2	38.8	45.7	81.9	78.2	71.8	49.8	46.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)