

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: P319035

Luminaire Tested: **GAN-SA1B-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5942 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

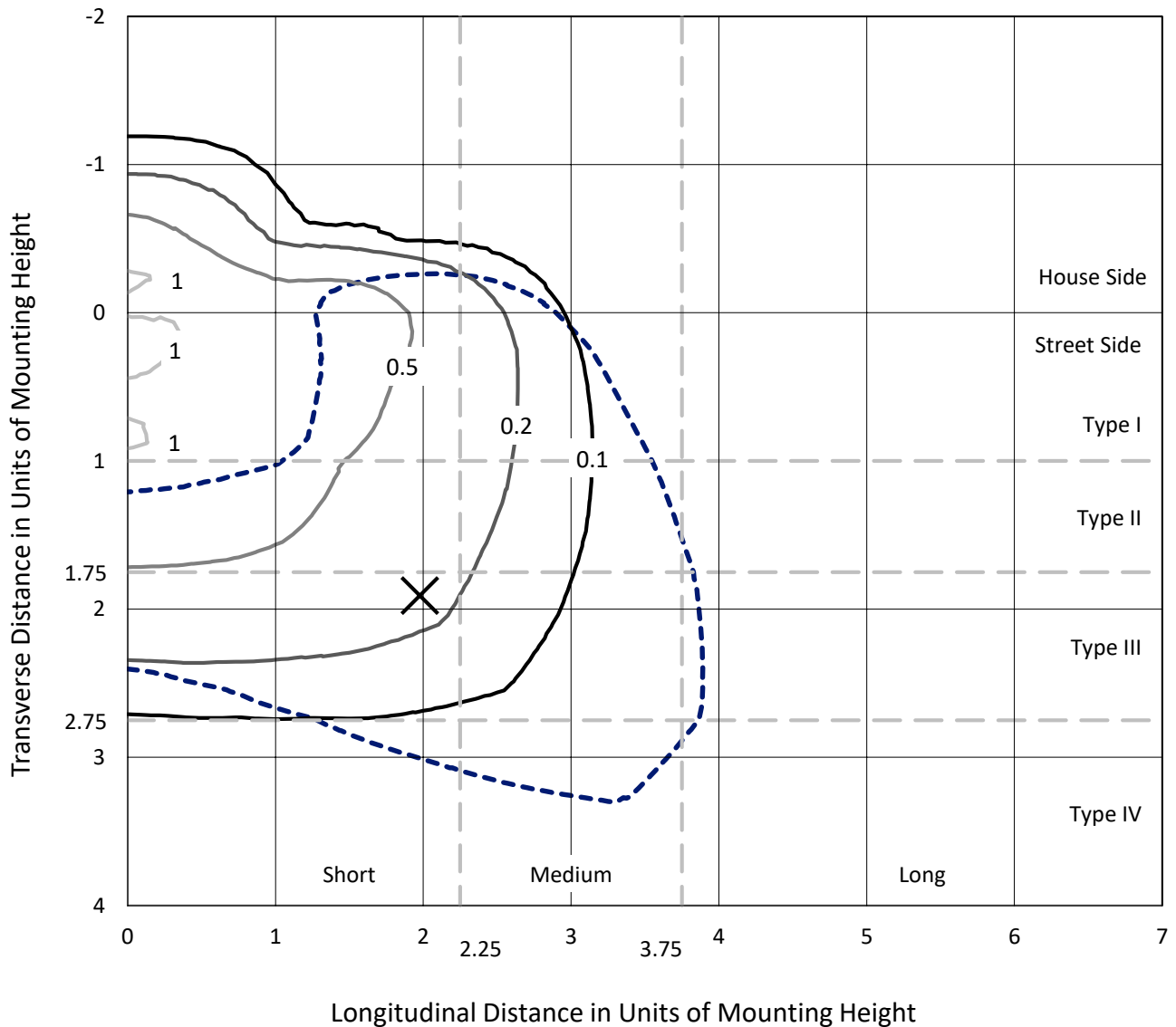
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

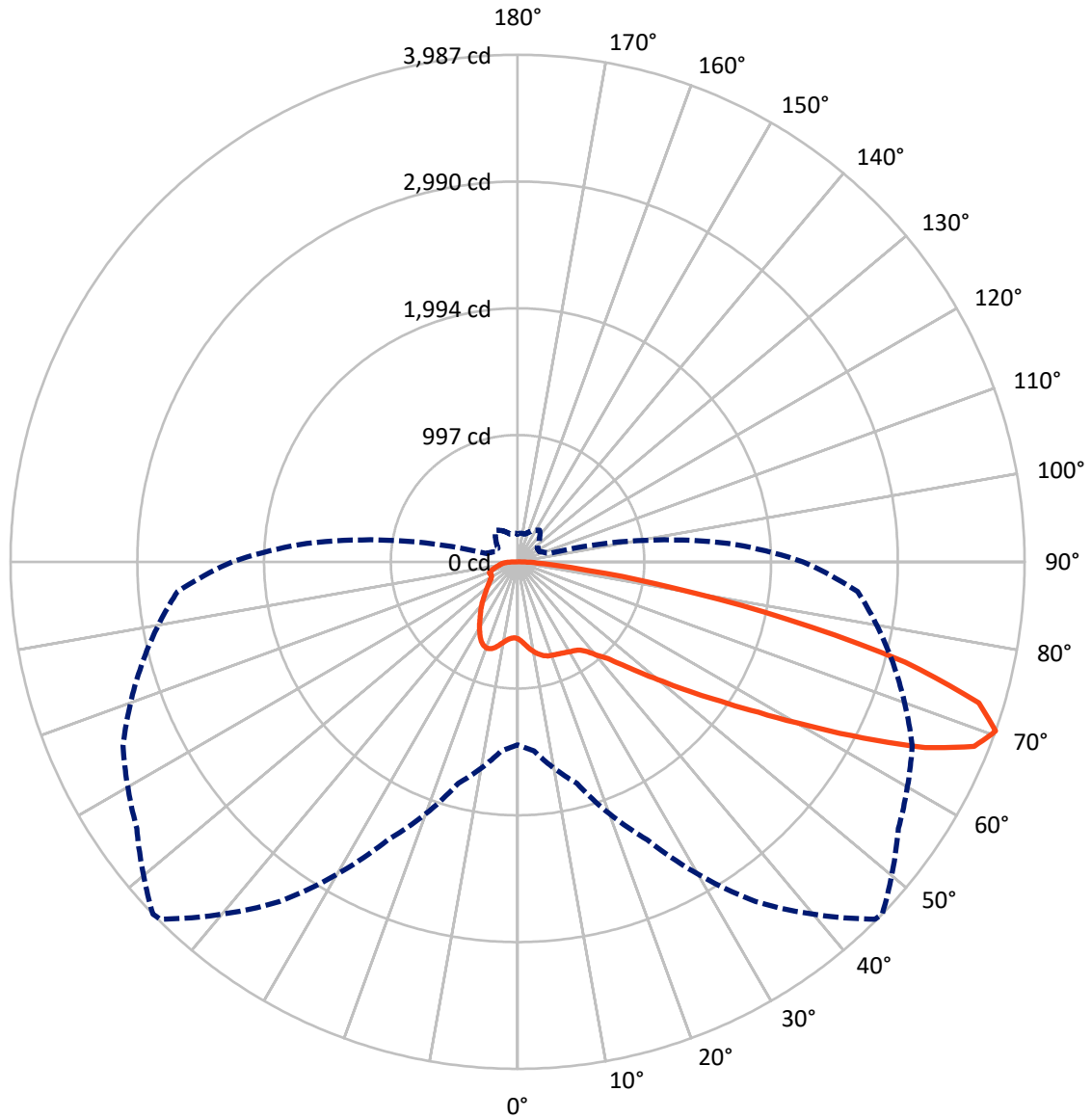
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1361.9	0.0	1361.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4580.1	0.0	4580.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	5942.0	0.0	5942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.0
10°-20°	205.6	3.5
20°-30°	342.8	5.8
30°-40°	486.5	8.2
40°-50°	715.6	12.0
50°-60°	1211.9	20.4
60°-70°	1720.3	29.0
70°-80°	1045.1	17.6
80°-90°	152.5	2.6
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°	5942.0	100.0
0°-180°	5942.0	100.0

Coefficient of Utilization



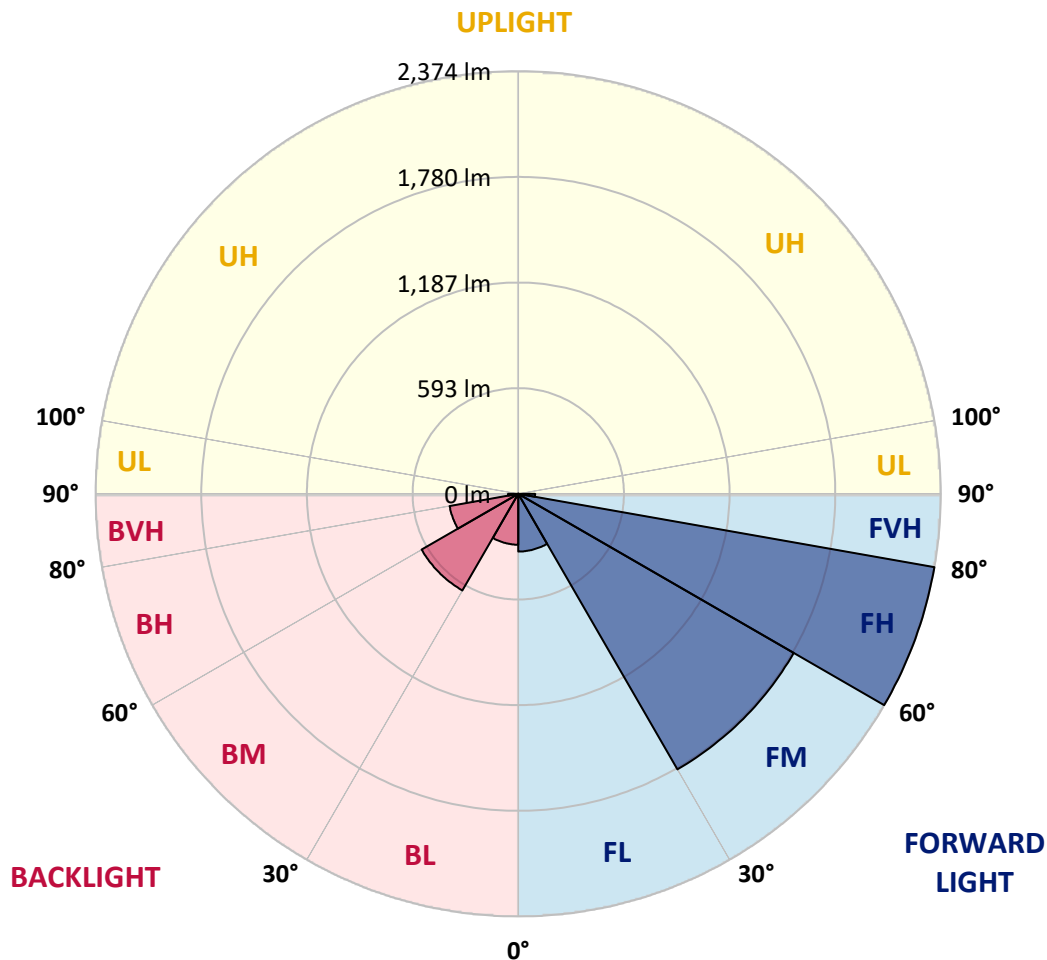
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.2	5.5			
FM (30°-60°)	1787.1	30.1			
FH (60°-80°)	2373.8	39.9			G2/5000
FVH (80°-90°)	95.0	1.6			G1/100
BL (0°-30°)	285.9	4.8	B1/500		
BM (30°-60°)	626.9	10.6	B1/1000		
BH (60°-80°)	391.5	6.6	B1/500		G1/500
BVH (80°-90°)	57.5	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	605.4	605.4	605.4	605.4	605.4	605.4	605.4	605.4	605.4	605.4	605.4
2.5°	635.7	636.1	636.9	634.9	629.2	627.5	626.9	621.0	617.2	611.5	606.6
5°	686.5	686.9	685.7	680.0	667.4	658.0	657.2	643.8	631.6	618.6	608.8
7.5°	739.6	740.2	736.3	725.6	707.9	691.6	690.6	672.3	653.8	634.0	619.4
10°	786.6	784.1	777.8	762.8	741.8	721.9	721.1	702.0	680.6	656.8	637.3
12.5°	817.9	815.8	807.7	789.4	766.4	748.1	746.5	728.8	708.1	682.0	658.7
15°	835.2	836.6	825.6	804.9	782.5	767.0	765.6	753.0	734.5	708.3	681.4
17.5°	837.4	838.6	828.0	807.5	789.2	778.6	778.0	769.7	756.3	731.0	703.0
20°	824.4	825.2	816.5	799.6	787.6	784.3	784.1	780.5	770.5	748.1	720.9
22.5°	805.5	806.1	799.8	787.6	783.5	788.6	790.0	788.6	781.5	760.5	734.9
25°	800.8	800.4	793.9	781.5	784.9	795.7	797.5	798.1	793.3	775.0	752.8
27.5°	823.4	821.9	809.5	789.6	791.8	804.9	807.3	813.2	810.1	794.1	773.1
30°	888.6	886.2	860.8	820.5	809.5	816.2	819.3	828.7	829.3	815.8	800.2
32.5°	998.9	995.8	950.3	878.3	839.4	827.8	830.7	844.7	852.2	841.9	825.0
35°	1138.2	1134.7	1074.9	976.5	889.5	850.0	852.0	863.2	878.3	863.6	841.3
37.5°	1283.3	1275.0	1217.5	1092.0	969.0	897.4	897.4	898.8	905.9	875.4	860.4
40°	1427.7	1419.4	1367.3	1227.8	1071.9	972.0	967.3	935.8	930.1	903.9	898.8
42.5°	1561.9	1559.5	1528.8	1381.4	1192.6	1045.4	1038.9	985.4	986.7	970.4	970.6
45°	1704.7	1704.7	1679.7	1536.3	1333.4	1163.4	1156.9	1078.2	1090.4	1082.8	1100.9
47.5°	1821.2	1824.9	1821.4	1697.8	1497.1	1313.2	1301.4	1206.7	1240.8	1266.7	1319.3
50°	1940.2	1945.9	1946.5	1874.9	1694.9	1491.4	1477.9	1377.3	1453.5	1527.6	1631.1
52.5°	2112.8	2125.6	2074.6	2051.6	1937.3	1702.9	1689.6	1596.7	1724.0	1827.9	2006.3
55°	2272.8	2261.7	2225.3	2239.5	2196.8	1943.6	1933.7	1852.1	2025.4	2160.4	2392.0
57.5°	2359.5	2358.7	2395.3	2456.3	2476.6	2240.5	2232.2	2152.9	2365.2	2466.6	2754.2
60°	2461.1	2462.6	2553.3	2691.7	2775.5	2610.2	2606.5	2546.4	2695.2	2752.5	3038.3
62.5°	2475.4	2501.0	2657.2	2895.5	3055.3	3042.1	3050.3	2900.8	2990.5	2980.7	3250.3
65°	2311.7	2345.4	2628.1	2957.1	3333.5	3514.5	3522.0	3257.3	3223.3	3175.7	3326.2
67.5°	1976.2	2026.2	2333.2	2823.1	3425.2	3863.7	3874.2	3533.6	3416.5	3241.8	3143.6
70°	1438.1	1493.6	1802.7	2411.1	3261.7	3975.3	3987.3	3655.8	3423.8	3053.7	2683.6
72.5°	868.7	912.2	1167.0	1775.0	2753.0	3771.9	3793.3	3500.9	3125.9	2586.6	1981.6
75°	381.5	410.0	564.3	1022.9	1970.9	3120.8	3147.5	2996.6	2539.8	1879.8	1171.3
77.5°	162.5	170.6	231.4	444.3	1114.2	2132.5	2169.1	2189.5	1723.2	1022.9	495.0
80°	101.3	104.5	131.0	201.1	521.4	1197.7	1237.2	1288.2	855.7	376.0	172.8
82.5°	61.6	65.3	87.0	121.6	271.5	542.9	561.9	597.8	332.1	162.5	89.5
85°	37.0	39.7	53.3	76.9	154.5	213.5	213.3	235.9	156.4	104.5	47.2
87.5°	17.7	19.7	28.5	39.9	77.9	80.1	75.0	85.0	95.0	68.5	23.8
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°	605.4	605.4	605.4	605.4	605.4	605.4	605.4	605.4	605.4	605.4	605.4
2.5°	605.0	604.2	601.5	599.5	599.1	597.8	596.8	597.4	598.3	598.5	598.5
5°	604.8	602.5	599.1	597.6	599.5	601.9	605.0	609.0	611.5	613.3	614.5
7.5°	614.5	610.3	606.4	605.6	609.2	615.7	622.7	631.2	637.1	641.2	642.0
10°	630.8	625.5	621.6	622.5	629.0	638.3	648.1	659.1	668.0	673.5	673.9
12.5°	649.5	644.4	640.8	644.2	655.0	666.4	676.5	686.1	694.2	699.7	699.7
15°	671.1	667.4	663.1	671.1	685.7	695.9	700.1	704.8	709.3	713.4	712.5
17.5°	691.8	688.3	686.1	695.5	710.7	715.4	712.5	709.1	709.1	711.3	711.7
20°	709.7	706.6	708.1	717.2	725.1	720.3	709.7	698.7	694.2	695.5	696.7
22.5°	725.4	723.9	728.2	732.5	726.8	709.7	690.2	675.3	669.8	669.4	669.8
25°	743.7	743.4	748.7	741.0	715.8	684.3	658.0	643.6	640.6	643.0	647.1
27.5°	766.4	768.7	771.3	743.0	693.4	645.8	619.2	609.2	612.3	618.2	622.0
30°	795.5	801.6	795.9	738.0	661.3	601.9	576.5	573.7	582.0	590.3	594.4
32.5°	823.8	833.3	819.5	724.7	619.8	555.3	535.6	534.8	545.0	553.1	558.8
35°	846.5	865.5	837.2	698.5	571.8	512.4	498.0	492.5	496.2	505.7	512.2
37.5°	876.2	907.8	849.4	658.4	519.8	477.1	460.2	447.6	444.3	448.2	451.4
40°	930.5	972.2	855.1	602.5	468.9	441.7	424.6	406.1	393.3	383.9	384.1
42.5°	1019.2	1056.2	851.4	534.6	422.0	407.1	387.8	366.4	345.7	324.5	322.9
45°	1163.2	1181.1	840.4	462.6	380.7	370.9	352.8	331.5	303.8	279.8	277.6
47.5°	1393.6	1353.9	823.4	399.8	344.3	340.2	323.5	298.9	269.6	250.3	248.7
50°	1707.7	1603.4	815.0	349.8	312.1	313.4	299.7	273.7	246.1	231.8	230.2
52.5°	2083.5	1894.0	831.1	311.1	286.3	290.6	280.4	256.0	232.8	221.7	220.0
55°	2473.3	2195.0	848.4	283.1	261.9	270.3	266.8	246.7	225.7	215.3	213.9
57.5°	2807.0	2419.7	813.8	260.3	240.2	253.2	256.2	240.8	222.1	212.7	211.1
60°	3017.1	2510.2	723.1	238.9	222.9	239.5	250.1	239.1	223.5	222.7	221.4
62.5°	3116.7	2502.2	587.1	222.1	212.1	233.6	254.6	248.3	239.7	247.1	247.7
65°	3072.0	2382.7	437.2	210.9	204.4	235.9	268.0	265.6	244.4	251.7	252.8
67.5°	2777.6	2097.4	323.7	201.1	195.8	242.2	292.4	271.3	235.3	240.6	237.3
70°	2245.0	1662.8	249.7	190.1	187.1	241.4	303.4	267.8	225.3	226.5	217.8
72.5°	1548.1	1133.9	203.1	180.0	174.5	220.0	295.7	259.3	217.0	207.6	196.0
75°	841.9	608.6	172.6	169.4	152.3	193.2	281.4	253.2	209.5	197.0	190.5
77.5°	331.3	252.6	149.9	155.0	133.2	170.6	265.6	241.6	199.1	182.8	179.6
80°	135.2	128.9	124.2	134.0	114.5	149.3	246.5	228.0	186.7	169.6	163.1
82.5°	76.7	80.1	96.6	105.7	92.9	137.5	237.3	217.0	171.8	151.9	144.2
85°	39.2	47.0	67.3	75.8	68.3	116.9	218.6	189.9	137.9	116.3	116.9
87.5°	18.9	26.2	42.5	47.6	44.3	84.6	163.3	137.7	107.4	85.0	82.4
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)