

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: P317355

Luminaire Tested: **GAN-SA1B-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5213 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

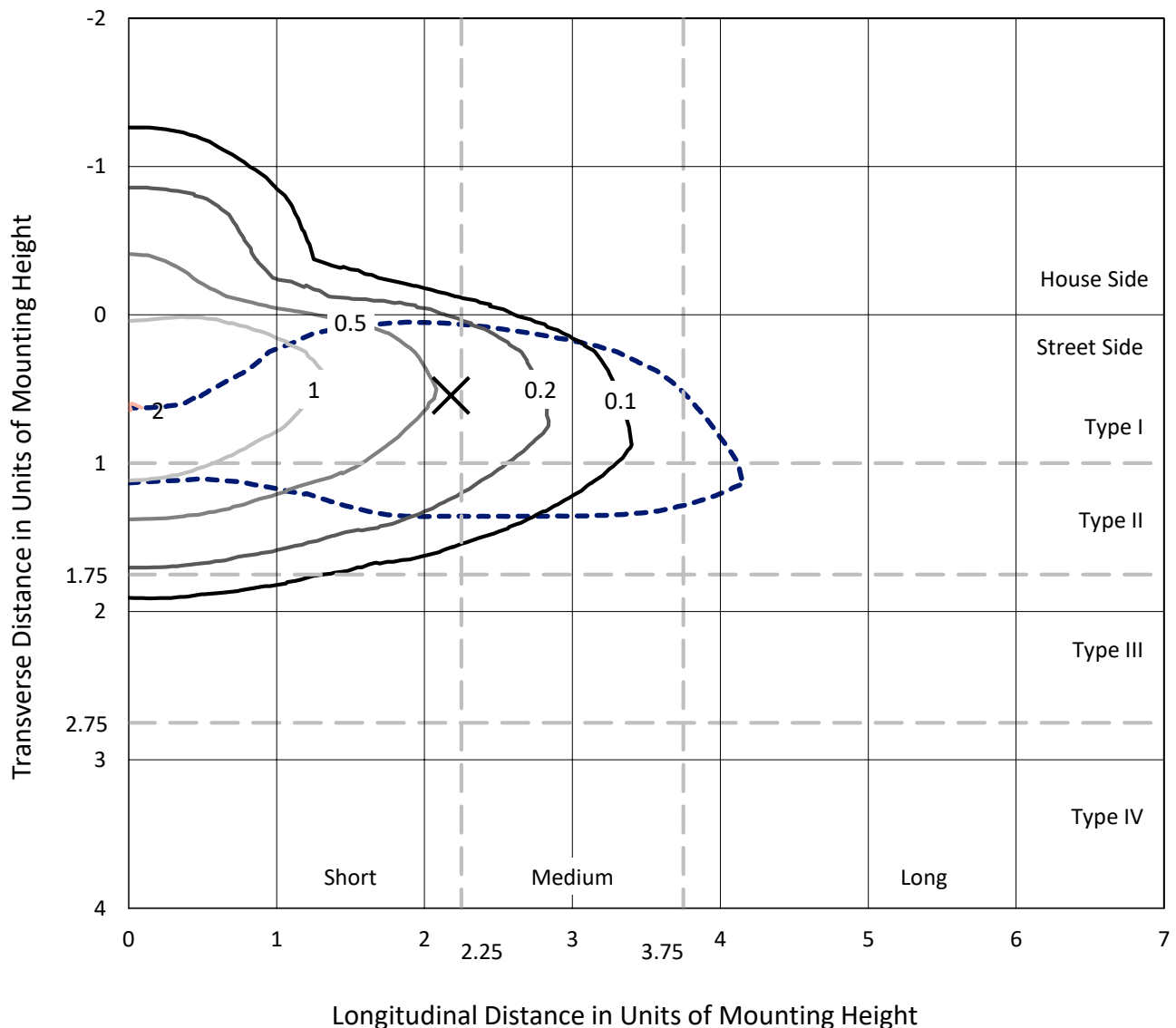
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317355
 CATALOG NUMBER: GAN-SA1B-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

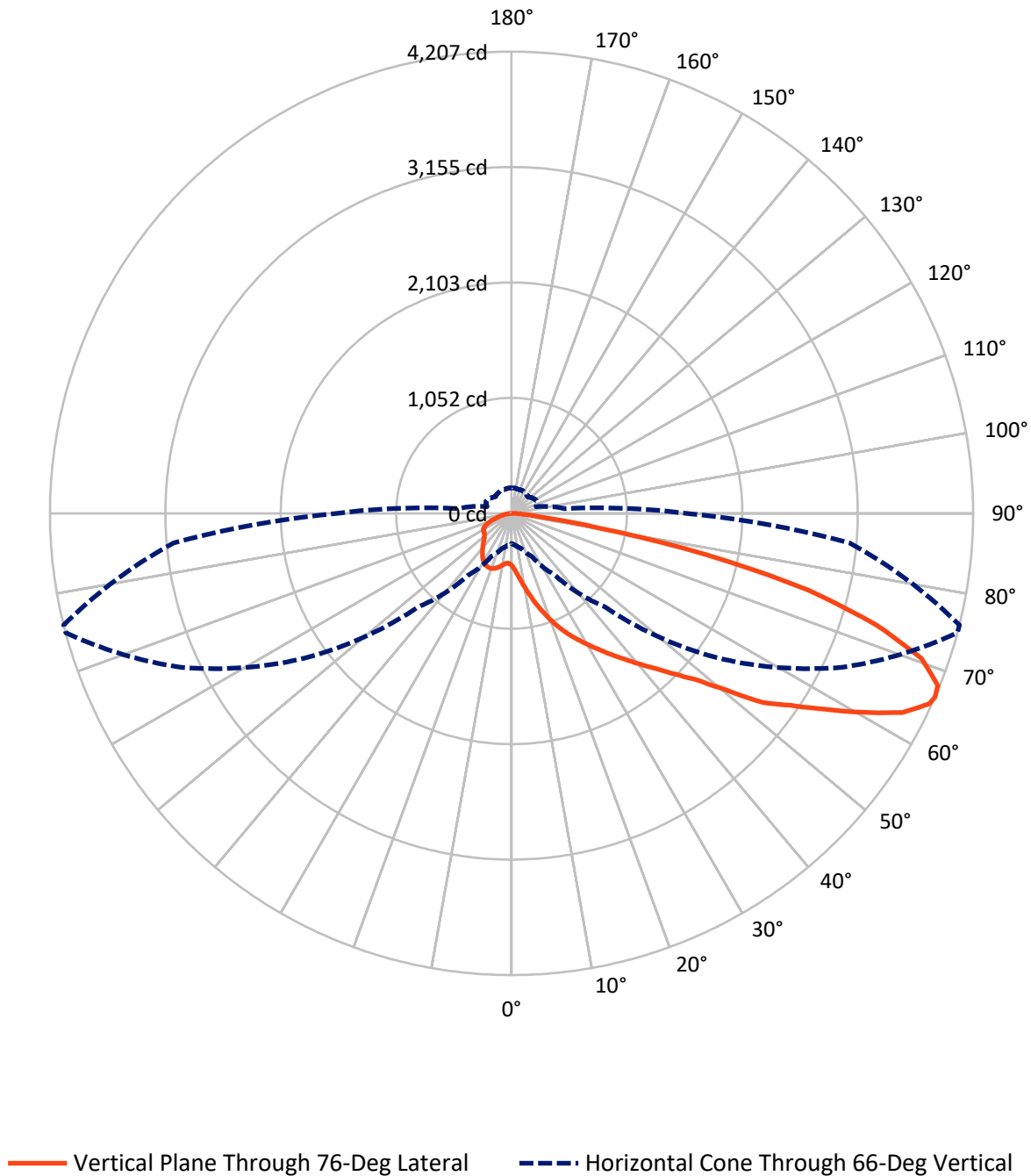
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

REPORT NUMBER: P317355
CATALOG NUMBER: GAN-SA1B-727-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P317355

CATALOG NUMBER: GAN-SA1B-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	877.2	0.0	877.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	4335.8	0.0	4335.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	5213.0	0.0	5213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	1.1
10°-20°	227.3	4.4
20°-30°	441.8	8.5
30°-40°	721.1	13.8
40°-50°	985.1	18.9
50°-60°	1147.5	22.0
60°-70°	1028.8	19.7
70°-80°	519.9	10.0
80°-90°	84.0	1.6
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°	5213.0	100.0
0°-180°	5213.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317355

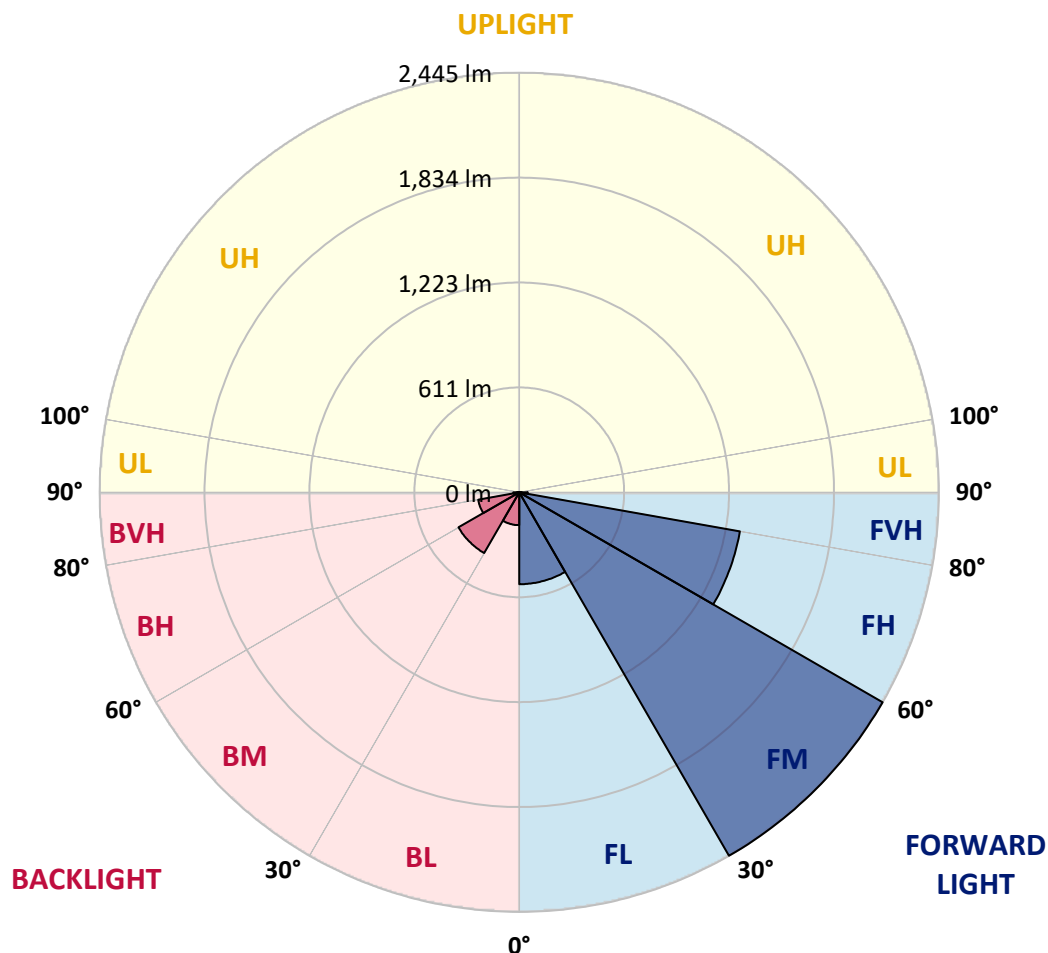
CATALOG NUMBER: GAN-SA1B-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.4	10.3			
FM	(30°-60°)	2445.3	46.9			
FH	(60°-80°)	1305.6	25.0			G1/1800
FVH	(80°-90°)	49.6	1.0			G1/100
BL	(0°-30°)	191.3	3.7	B1/500		
BM	(30°-60°)	408.5	7.8	B1/1000		
BH	(60°-80°)	243.0	4.7	B1/500		G1/500
BVH	(80°-90°)	34.4	0.7			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 II Short



REPORT NUMBER: P317355

CATALOG NUMBER: GAN-SA1B-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1
2.5°	632.0	622.4	621.5	607.6	604.4	577.6	558.0	537.5	514.1	509.5	491.1
5°	811.8	810.9	798.7	775.9	758.0	712.3	667.2	619.4	567.0	558.5	517.1
7.5°	973.5	972.1	962.7	938.1	912.3	856.2	791.8	718.5	633.6	621.0	552.3
10°	1096.4	1095.8	1092.6	1074.6	1052.7	998.9	927.7	827.7	710.9	693.7	596.4
12.5°	1191.2	1192.3	1194.4	1188.0	1177.6	1131.8	1058.8	943.5	793.4	776.4	645.4
15°	1255.5	1258.7	1269.6	1278.6	1284.1	1256.0	1185.4	1061.9	885.8	865.4	699.8
17.5°	1287.9	1291.4	1310.3	1337.6	1362.7	1359.9	1303.8	1174.8	974.4	954.8	758.2
20°	1315.8	1318.5	1339.7	1372.4	1416.9	1436.5	1405.0	1283.4	1071.6	1048.2	820.1
22.5°	1396.9	1400.2	1406.6	1425.2	1464.5	1500.6	1485.4	1386.3	1160.6	1138.8	878.9
25°	1553.3	1557.4	1543.6	1527.8	1535.3	1560.4	1563.2	1480.0	1250.9	1226.3	942.0
27.5°	1741.8	1747.6	1724.1	1683.6	1648.2	1638.4	1635.1	1556.9	1337.1	1308.6	1004.5
30°	1926.4	1936.5	1905.9	1853.3	1788.3	1742.7	1708.9	1632.1	1422.0	1394.7	1063.4
32.5°	2106.7	2102.6	2058.2	2006.9	1930.8	1873.6	1791.9	1712.8	1517.6	1486.2	1122.0
35°	2230.2	2231.7	2190.4	2129.5	2057.0	2013.1	1903.0	1799.8	1615.1	1586.2	1188.6
37.5°	2335.4	2328.8	2282.1	2225.3	2162.8	2144.1	2033.1	1895.8	1720.7	1689.2	1259.4
40°	2370.4	2362.8	2332.2	2291.3	2241.2	2239.6	2176.6	2004.4	1840.2	1809.0	1339.2
42.5°	2349.2	2339.4	2326.9	2315.7	2300.3	2307.4	2311.5	2131.8	1971.5	1936.6	1431.6
45°	2270.8	2256.1	2264.9	2289.2	2322.6	2362.6	2433.2	2272.9	2118.6	2089.4	1540.0
47.5°	2150.3	2137.0	2164.6	2216.4	2307.4	2408.6	2548.4	2428.6	2294.1	2265.1	1694.5
50°	1980.7	1984.6	2024.1	2118.4	2255.9	2429.9	2690.4	2634.8	2549.3	2522.3	1905.3
52.5°	1702.5	1703.2	1814.4	1969.2	2164.6	2418.9	2769.1	2898.3	2897.8	2865.1	2106.0
55°	1444.1	1459.9	1547.8	1753.7	2016.6	2375.0	2824.2	3026.5	3126.6	3088.2	2293.1
57.5°	1191.8	1201.0	1284.3	1491.0	1805.5	2258.0	2880.6	3180.3	3390.3	3366.1	2525.6
60°	904.7	918.9	1005.0	1196.0	1535.4	2050.4	2885.9	3340.8	3705.5	3681.1	2785.2
62.5°	587.2	611.6	692.3	871.3	1208.7	1751.9	2762.8	3445.7	4004.3	3995.6	3015.7
65°	337.5	355.9	412.0	550.0	833.9	1377.0	2469.9	3405.4	4188.1	4183.2	3101.9
66°	275.7	287.2	330.2	429.9	688.1	1209.3	2299.6	3320.2	4206.4	4206.5	3091.9
67.5°	220.5	225.6	244.9	307.8	507.7	958.5	1995.4	3132.5	4183.7	4189.9	3028.1
70°	182.5	185.1	191.1	206.4	277.1	578.0	1416.3	2644.5	3956.3	3961.1	2778.7
72.5°	163.7	165.3	167.6	169.7	195.6	323.0	865.1	2115.6	3468.7	3474.9	2398.7
75°	148.3	149.2	148.8	149.0	164.1	205.8	447.0	1579.5	2804.7	2792.3	1837.5
77.5°	130.3	131.1	129.4	129.7	145.1	158.2	222.5	1105.7	1892.8	1805.3	1035.3
80°	110.1	110.8	110.1	111.3	126.4	119.5	129.4	622.1	836.9	791.6	368.1
82.5°	83.2	86.2	88.3	93.3	104.1	84.9	86.5	242.3	254.8	242.6	112.9
85°	36.5	44.4	66.5	71.3	78.2	51.0	56.8	98.8	103.7	100.5	41.1
87.5°	9.6	10.4	32.9	41.4	43.4	23.0	29.6	45.0	47.4	45.0	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317355

CATALOG NUMBER: GAN-SA1B-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1	476.1
2.5°	481.4	472.7	457.1	443.3	432.9	425.8	418.7	415.2	413.1	410.9	411.3
5°	496.8	479.3	452.5	433.6	423.0	416.2	412.7	411.3	410.4	408.3	408.3
7.5°	520.0	495.2	458.4	438.9	430.6	425.4	423.3	422.6	421.6	419.1	419.4
10°	549.2	514.5	470.6	451.6	444.0	438.4	435.4	434.3	432.4	429.5	429.9
12.5°	583.5	538.4	486.7	466.9	457.7	450.0	445.1	442.1	438.7	435.0	435.2
15°	621.0	564.4	504.0	480.5	467.9	457.3	449.3	444.2	438.9	434.3	434.1
17.5°	659.1	589.5	517.3	487.9	470.9	457.0	446.2	438.2	431.6	426.0	425.4
20°	700.1	612.2	524.7	487.2	465.3	448.6	434.3	424.4	417.1	411.5	410.6
22.5°	741.9	633.4	526.0	480.0	452.7	432.4	417.3	406.3	398.9	393.1	390.9
25°	780.1	649.9	520.8	466.0	435.2	413.2	398.5	387.4	381.4	374.5	372.4
27.5°	815.0	661.4	510.6	448.1	415.5	393.9	380.1	370.6	364.0	358.7	357.0
30°	846.3	667.6	493.8	426.9	395.4	375.7	364.0	357.5	351.8	345.1	343.9
32.5°	876.0	667.6	472.2	403.7	375.4	359.6	352.7	348.6	342.3	335.7	334.0
35°	905.8	663.5	446.7	379.4	357.0	348.1	347.8	343.0	333.2	324.4	322.1
37.5°	937.1	655.2	418.0	356.8	341.9	343.0	346.0	335.4	321.6	309.0	305.6
40°	972.5	643.7	388.3	337.1	329.4	340.7	341.2	324.4	297.5	286.0	283.0
42.5°	1014.1	632.2	360.7	319.8	319.4	333.8	332.2	300.7	284.6	278.7	277.1
45°	1068.8	625.6	334.5	303.3	311.7	322.6	316.8	287.6	280.9	277.5	276.1
47.5°	1154.9	629.0	310.4	290.2	303.9	311.5	288.1	282.3	277.5	273.4	272.0
50°	1262.9	627.0	290.9	281.2	295.0	299.8	275.2	275.4	272.9	268.3	266.2
52.5°	1344.1	611.8	278.4	276.1	287.2	279.1	267.1	268.6	267.4	260.7	258.4
55°	1422.5	598.7	272.0	274.1	281.6	253.3	257.5	261.4	260.2	253.6	252.5
57.5°	1520.0	596.2	268.1	274.7	276.8	240.3	248.3	253.4	252.5	249.7	249.2
60°	1639.5	596.9	264.6	275.6	271.5	230.8	239.6	246.2	246.7	246.2	245.8
62.5°	1705.2	577.6	255.7	273.1	262.1	222.5	230.6	240.2	240.3	241.4	241.2
65°	1649.4	520.0	239.3	264.4	246.4	215.6	222.8	233.3	230.6	235.4	235.4
66°	1595.3	486.7	231.1	258.7	239.6	212.9	220.3	229.7	226.4	232.9	232.9
67.5°	1484.6	430.6	216.4	246.7	230.1	209.2	217.5	223.9	219.3	229.0	228.3
70°	1282.5	333.1	186.9	219.4	214.3	203.7	213.6	212.2	205.5	220.3	217.5
72.5°	1081.3	253.1	150.1	183.7	190.4	196.8	208.1	197.3	188.8	199.3	193.1
75°	839.0	190.2	118.6	142.8	160.9	186.0	201.6	180.2	167.9	166.9	163.5
77.5°	453.6	130.6	94.0	109.0	127.8	172.6	197.2	161.8	143.4	139.1	136.4
80°	179.6	84.9	68.3	82.6	89.4	153.1	186.5	140.3	118.2	114.0	109.9
82.5°	74.2	50.3	44.1	55.4	58.2	131.0	167.4	115.0	91.3	126.4	134.1
85°	31.9	27.6	26.2	28.7	32.9	91.9	133.3	87.8	98.6	88.0	69.9
87.5°	9.6	11.7	11.1	11.0	12.0	21.9	71.0	48.8	72.4	27.4	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

(END OF REPORT)