

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: P318315

Luminaire Tested: **GAN-SA1B-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318315
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-SA1B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5006 lumens
Efficiency: N/A
Efficacy: 113.8 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

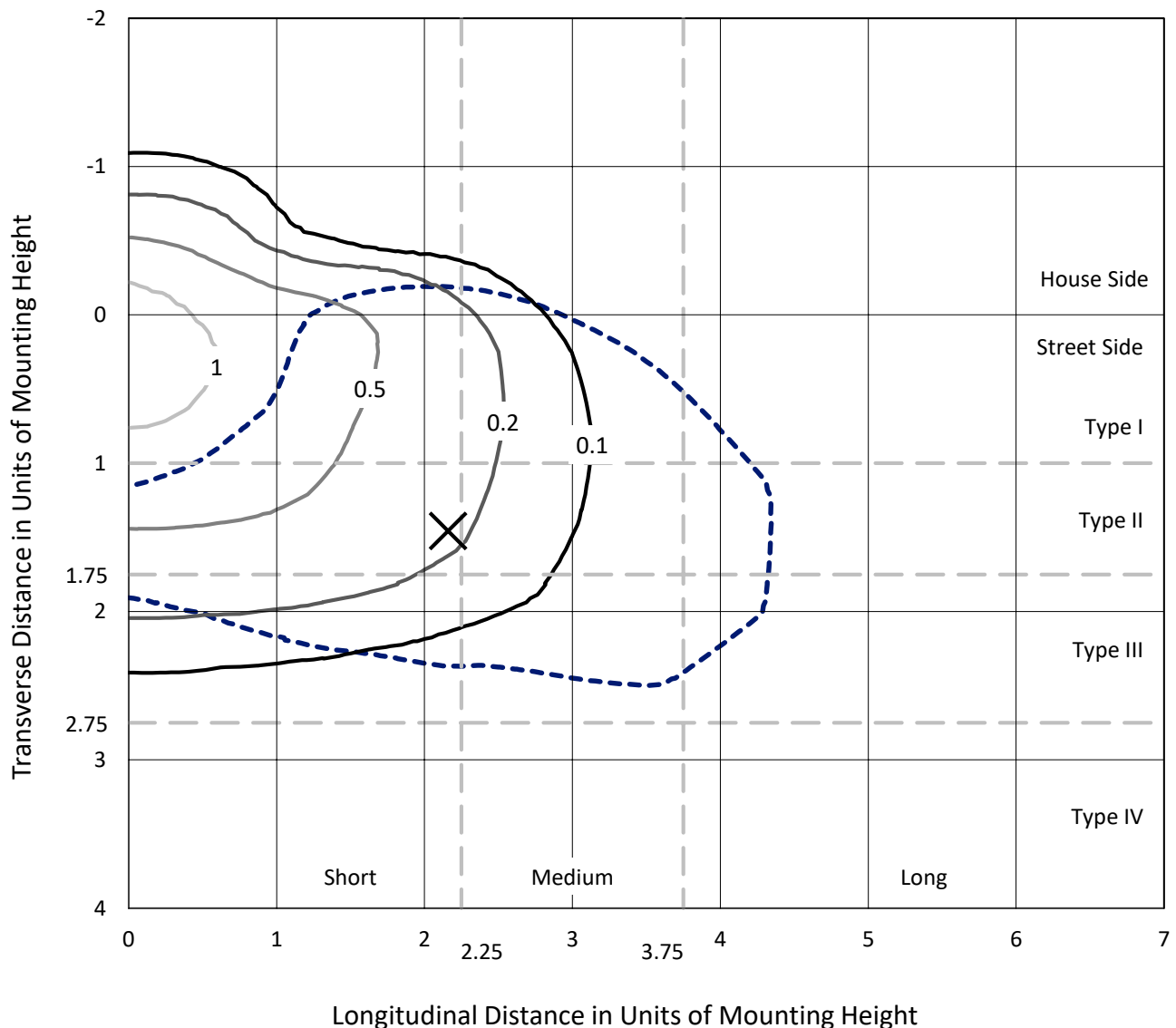
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318315
 CATALOG NUMBER: GAN-SA1B-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

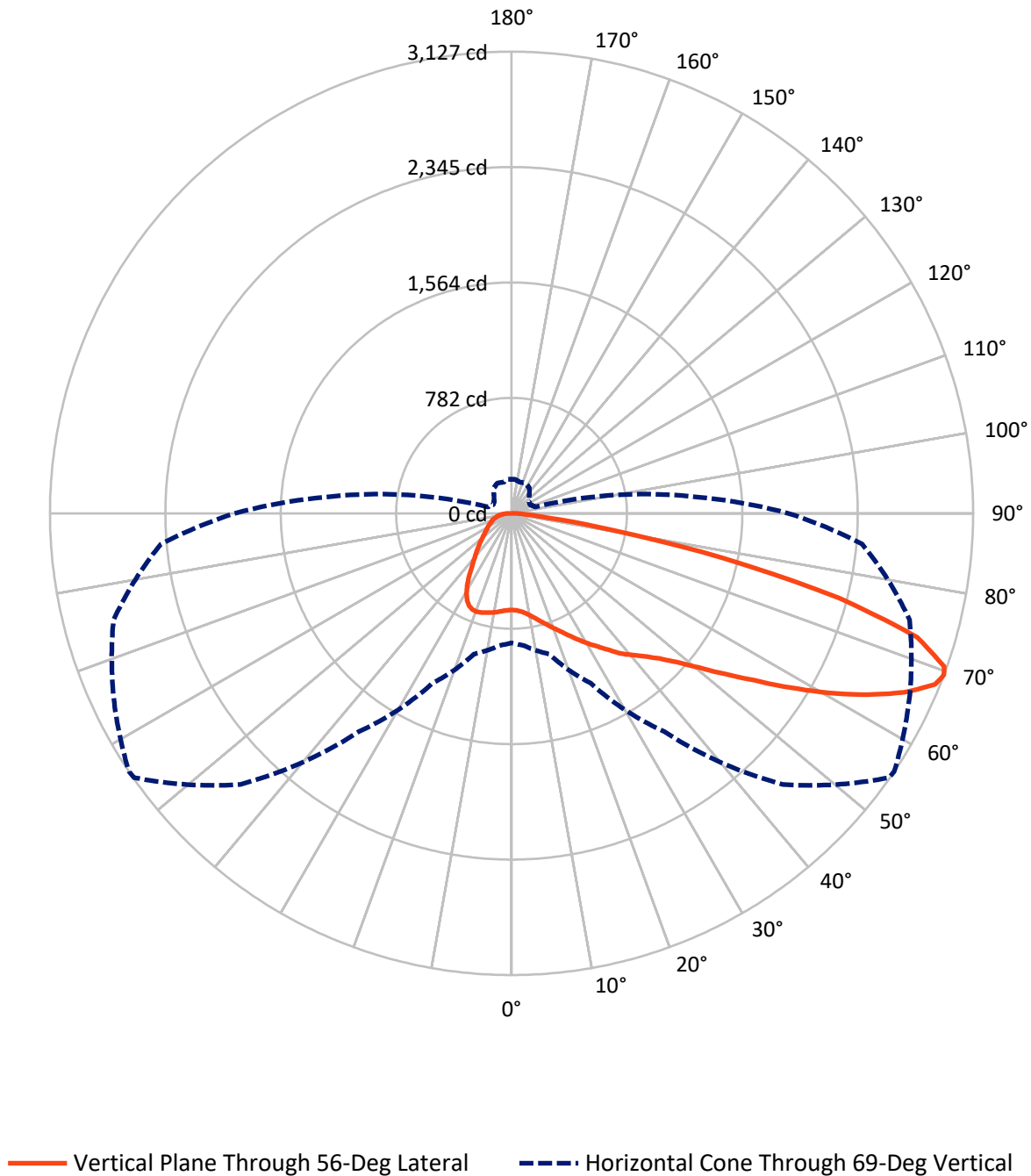
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P318315
CATALOG NUMBER: GAN-SA1B-727-U-T3

Luminous Intensity Polar Plot



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CATALOG NUMBER: GAN-SA1B-727-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1114.8	0.0	1114.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	3891.2	0.0	3891.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	5006.0	0.0	5006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	1.3
10°-20°	206.7	4.1
20°-30°	360.8	7.2
30°-40°	518.3	10.4
40°-50°	717.3	14.3
50°-60°	1050.9	21.0
60°-70°	1281.3	25.6
70°-80°	708.4	14.2
80°-90°	98.1	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°	5006.0	100.0
0°-180°	5006.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318315

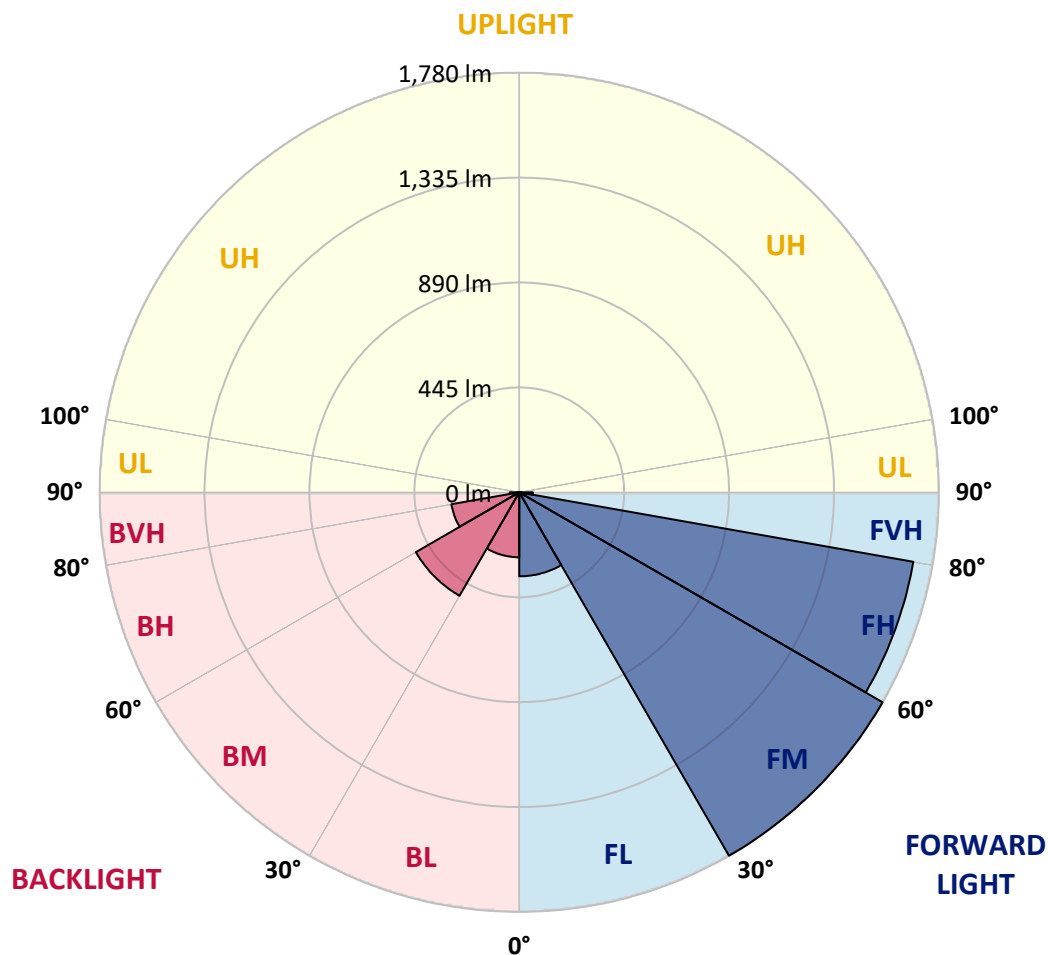
CATALOG NUMBER: GAN-SA1B-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.3	7.1			
FM	(30°-60°)	1779.8	35.6			
FH	(60°-80°)	1697.3	33.9			G1/1800
FVH	(80°-90°)	57.8	1.2			G1/100
BL	(0°-30°)	275.5	5.5	B1/500		
BM	(30°-60°)	506.7	10.1	B1/1000		
BH	(60°-80°)	292.3	5.8	B1/500		G1/500
BVH	(80°-90°)	40.3	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



REPORT NUMBER: P318315

CATALOG NUMBER: GAN-SA1B-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5
2.5°	658.6	659.3	658.8	660.2	658.6	659.6	658.8	658.8	658.3	656.7	655.0
5°	668.9	670.3	669.5	670.8	668.9	669.3	667.7	667.7	666.2	662.9	659.5
7.5°	685.2	686.7	686.0	687.4	684.8	684.8	682.7	682.6	679.5	674.1	670.2
10°	704.5	706.5	705.9	707.9	705.9	706.5	704.5	704.5	700.3	692.7	687.7
12.5°	732.6	735.2	733.3	733.1	732.2	733.6	731.9	731.5	727.8	717.4	710.5
15°	770.2	772.9	769.0	768.6	763.8	763.3	763.3	762.8	760.3	747.9	736.5
17.5°	813.5	814.3	810.9	805.4	799.1	795.2	794.7	796.0	796.0	781.6	763.4
20°	855.9	857.4	854.7	848.5	840.5	834.7	830.5	833.3	833.1	815.9	790.2
22.5°	902.1	905.7	901.6	893.7	884.3	877.8	870.5	873.0	873.1	851.9	816.4
25°	961.9	958.7	956.1	944.9	931.6	924.9	918.1	920.6	919.9	890.7	843.5
27.5°	1014.9	1015.6	1012.1	1000.2	984.9	970.0	969.7	971.3	968.7	931.1	869.0
30°	1076.5	1076.8	1072.0	1061.3	1044.5	1025.4	1020.9	1023.5	1018.0	969.4	895.9
32.5°	1137.7	1139.4	1134.1	1121.1	1107.7	1084.4	1075.4	1077.1	1063.3	1008.5	923.7
35°	1191.3	1193.7	1192.0	1183.4	1168.7	1148.7	1138.0	1137.0	1119.9	1056.4	960.4
37.5°	1246.0	1248.2	1246.3	1239.1	1233.2	1212.0	1206.3	1206.3	1176.6	1105.4	1007.1
40°	1302.2	1305.6	1303.4	1293.4	1288.4	1278.7	1265.1	1261.8	1229.8	1164.2	1083.3
42.5°	1354.4	1358.9	1367.9	1362.0	1351.9	1353.2	1325.8	1324.1	1300.6	1251.1	1179.1
45°	1428.6	1435.2	1450.3	1445.8	1443.8	1436.2	1403.6	1402.0	1393.1	1368.1	1297.9
47.5°	1509.5	1518.4	1545.9	1546.7	1569.0	1554.7	1510.3	1505.0	1507.1	1508.1	1442.9
50°	1584.0	1593.8	1638.8	1660.0	1712.5	1715.6	1644.7	1639.9	1648.0	1671.8	1611.9
52.5°	1643.5	1655.9	1712.1	1777.6	1867.5	1893.0	1810.1	1806.4	1812.5	1853.5	1803.0
55°	1687.1	1700.6	1761.8	1881.1	2024.6	2069.6	2000.5	1997.0	2000.8	2053.1	2010.8
57.5°	1697.3	1700.6	1789.4	1950.8	2157.2	2265.3	2233.4	2226.5	2207.9	2253.4	2240.2
60°	1649.5	1662.6	1766.6	1975.3	2259.8	2458.3	2476.9	2468.3	2416.1	2453.3	2442.6
62.5°	1552.6	1576.0	1681.6	1938.0	2300.0	2615.9	2715.8	2705.4	2615.4	2639.6	2588.2
65°	1394.3	1404.3	1515.2	1809.5	2249.0	2716.8	2928.8	2923.6	2810.3	2772.5	2615.1
67.5°	1111.1	1129.9	1224.1	1541.0	2040.1	2704.9	3093.5	3092.9	2937.6	2821.8	2519.7
69°	877.8	897.3	986.9	1269.4	1805.2	2596.1	3121.1	3127.1	2973.4	2791.8	2383.5
70°	699.8	722.4	784.0	1069.2	1596.7	2452.6	3098.1	3109.0	2966.5	2742.3	2257.8
72.5°	297.8	316.1	359.9	551.2	973.2	1831.5	2832.7	2873.8	2806.7	2509.9	1865.9
75°	130.0	135.7	155.6	224.7	432.0	996.8	2219.1	2295.0	2399.9	2121.5	1390.0
77.5°	95.2	97.6	108.5	131.9	193.8	376.5	1427.0	1471.2	1730.7	1543.8	852.6
80°	73.6	75.4	83.8	96.9	126.6	152.3	650.8	688.8	973.2	792.9	355.1
82.5°	58.6	59.8	65.7	71.4	87.4	92.3	216.1	239.7	359.2	219.0	94.0
85°	54.5	55.9	57.9	52.1	56.0	54.2	93.5	97.8	108.5	86.1	39.3
87.5°	24.7	29.1	57.4	40.5	29.8	23.8	38.3	40.0	45.0	45.2	17.4
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: P318315

CATALOG NUMBER: GAN-SA1B-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5
2.5°	656.0	655.5	656.4	654.3	656.9	656.7	655.8	656.2	657.9	657.7	657.9
5°	660.0	659.6	660.7	659.1	662.2	663.3	663.4	665.0	666.9	667.4	667.4
7.5°	670.0	670.0	670.5	668.4	670.5	670.3	669.5	671.0	672.9	673.1	672.9
10°	687.2	687.4	686.5	681.2	679.5	674.8	670.5	670.7	673.1	675.0	675.5
12.5°	709.0	708.3	704.5	694.6	687.4	677.9	673.4	673.3	675.7	677.2	677.7
15°	733.8	731.9	722.1	706.0	693.3	683.9	676.7	675.0	673.6	671.9	672.0
17.5°	757.2	752.9	736.5	714.3	700.8	688.4	674.5	663.3	655.5	651.0	649.6
20°	781.0	772.6	749.0	722.1	705.0	682.4	655.5	632.7	618.6	612.0	610.8
22.5°	802.8	789.1	760.5	730.2	701.7	662.0	619.8	586.7	567.0	558.2	558.9
25°	824.0	805.0	772.6	735.9	685.2	626.2	570.1	529.4	506.7	496.8	496.5
27.5°	842.6	821.0	785.7	731.2	654.3	575.1	511.3	471.7	452.7	444.2	442.9
30°	864.0	841.2	803.1	713.4	609.1	516.2	453.9	426.0	412.5	404.1	402.5
32.5°	890.0	868.6	817.4	681.2	551.3	454.6	409.1	389.6	377.3	367.8	366.1
35°	928.0	904.9	821.0	635.0	487.9	406.0	376.1	356.1	339.6	327.3	326.1
37.5°	975.6	950.2	812.8	575.1	426.3	374.4	348.7	324.0	302.5	285.2	282.5
40°	1044.2	1005.9	789.8	506.1	380.9	350.1	322.0	293.9	267.1	247.0	243.0
42.5°	1126.6	1071.3	754.7	437.5	347.7	325.4	295.4	260.6	235.1	220.7	218.7
45°	1231.5	1139.2	705.9	377.5	314.9	300.8	266.8	234.7	218.8	208.3	206.6
47.5°	1351.2	1215.4	654.6	328.7	287.1	277.6	243.8	223.2	210.6	202.3	200.7
50°	1498.3	1301.5	600.3	288.7	259.2	249.9	233.0	216.8	206.8	200.4	198.8
52.5°	1664.2	1398.6	561.2	257.1	236.1	229.4	227.3	213.3	205.2	200.4	198.8
55°	1842.8	1497.4	518.9	230.6	216.1	218.0	223.5	213.7	208.2	202.3	200.0
57.5°	2021.7	1599.5	471.8	208.2	200.2	209.5	220.9	214.4	209.7	204.0	201.9
60°	2163.1	1664.2	398.9	189.4	187.6	200.2	214.7	209.2	203.1	203.3	203.0
62.5°	2229.1	1660.7	318.3	172.6	175.0	187.6	204.7	201.1	196.1	202.8	203.3
65°	2192.1	1577.9	247.8	157.4	161.6	174.5	194.4	197.1	198.8	211.8	213.5
67.5°	2036.5	1416.9	191.9	144.2	149.3	165.6	195.4	214.7	216.9	230.6	230.4
69°	1875.6	1265.8	166.8	137.3	143.3	167.8	208.8	225.9	217.5	231.9	229.9
70°	1740.7	1146.3	153.3	132.6	140.5	171.8	217.8	225.7	214.9	227.3	223.8
72.5°	1340.6	824.7	130.0	124.0	131.2	164.3	220.4	220.7	208.8	211.3	205.4
75°	919.5	521.2	113.5	112.3	117.1	148.1	212.1	210.9	193.1	189.7	184.9
77.5°	507.0	264.7	96.4	101.1	104.3	131.2	192.8	191.1	176.4	169.2	167.5
80°	195.6	115.9	81.4	89.8	91.9	113.6	169.0	167.5	155.2	145.9	143.3
82.5°	73.8	60.7	67.3	77.8	77.1	93.8	143.1	142.3	130.4	116.8	112.6
85°	34.1	36.4	53.3	64.2	59.2	69.5	114.5	116.1	101.6	85.4	85.4
87.5°	14.5	20.3	37.8	48.5	39.8	46.9	84.0	80.2	73.6	51.0	47.9
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)