

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: P317346

Luminaire Tested: **GAN-SA2A-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317346
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-SA2A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8307 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

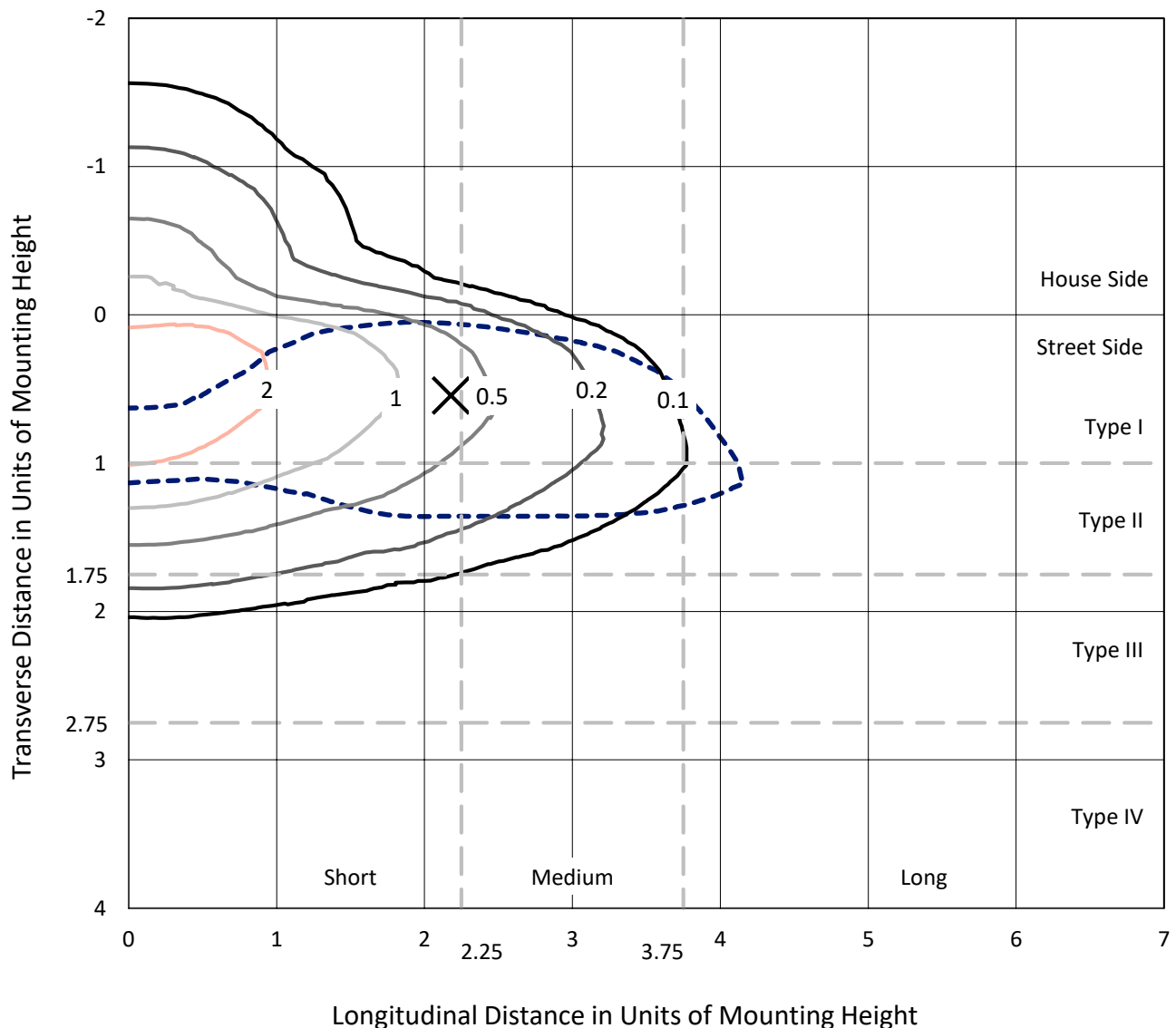
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317346
 CATALOG NUMBER: GAN-SA2A-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

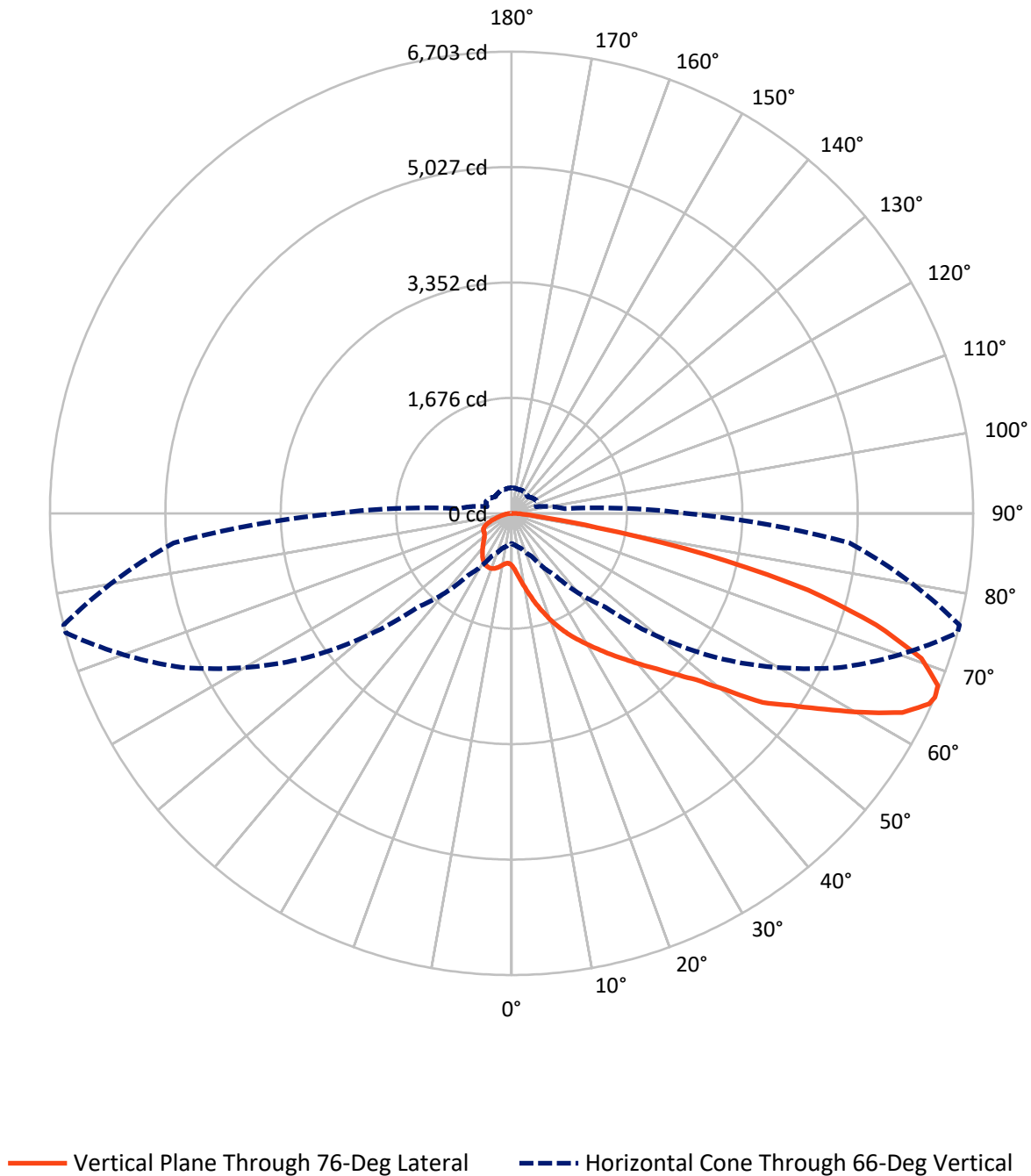
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

REPORT NUMBER: P317346
CATALOG NUMBER: GAN-SA2A-727-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P317346

CATALOG NUMBER: GAN-SA2A-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1397.8	0.0	1397.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	6909.2	0.0	6909.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	8307.0	0.0	8307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.1
10°-20°	362.3	4.4
20°-30°	704.0	8.5
30°-40°	1149.0	13.8
40°-50°	1569.9	18.9
50°-60°	1828.6	22.0
60°-70°	1639.3	19.7
70°-80°	828.5	10.0
80°-90°	133.8	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°	8307.0	100.0
0°-180°	8307.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317346

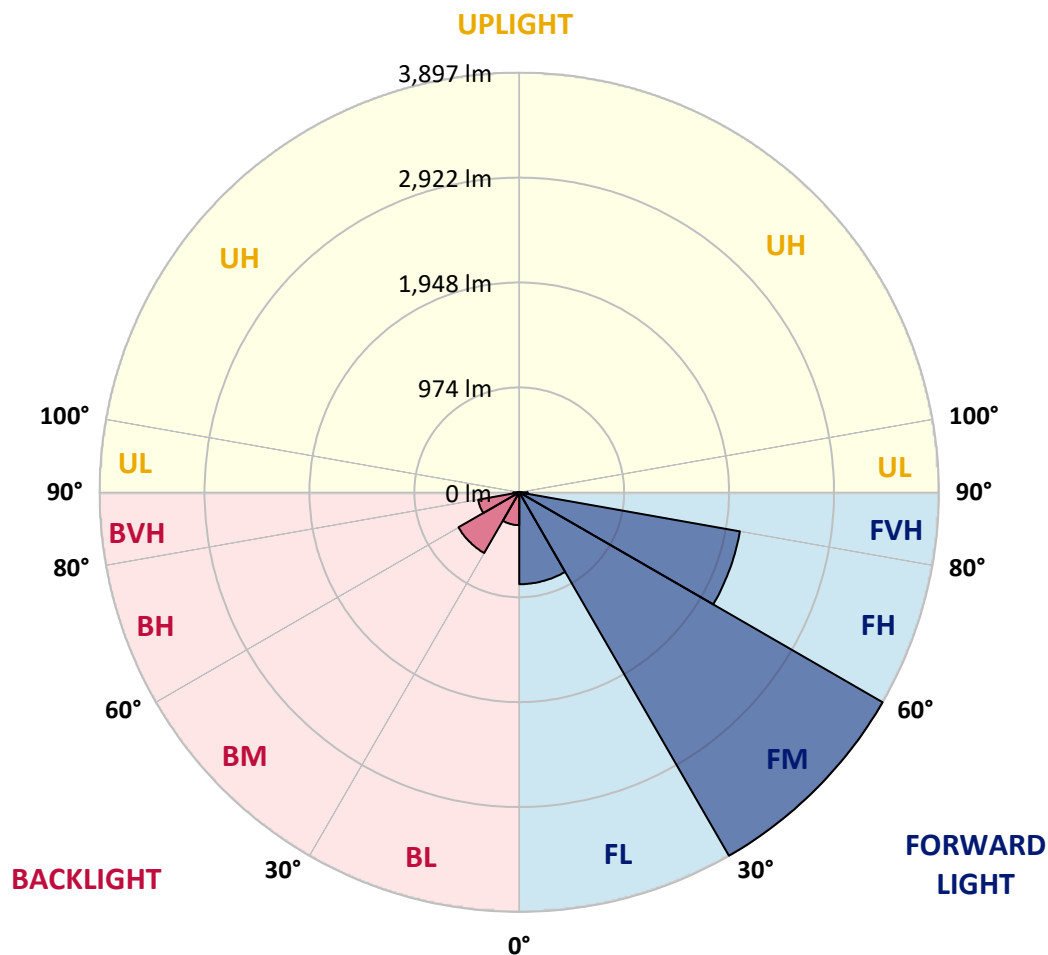
CATALOG NUMBER: GAN-SA2A-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	853.1	10.3			
FM	(30°-60°)	3896.6	46.9			
FH	(60°-80°)	2080.6	25.0			G2/5000
FVH	(80°-90°)	79.0	1.0			G1/100
BL	(0°-30°)	304.9	3.7	B1/500		
BM	(30°-60°)	650.9	7.8	B1/1000		
BH	(60°-80°)	387.2	4.7	B1/500		G1/500
BVH	(80°-90°)	54.8	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-G2

Type II Short





REPORT NUMBER: P317346

CATALOG NUMBER: GAN-SA2A-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6
2.5°	1007.1	991.8	990.4	968.2	963.1	920.5	889.2	856.5	819.2	811.9	782.6
5°	1293.6	1292.2	1272.7	1236.3	1207.9	1135.1	1063.2	987.0	903.6	890.0	824.0
7.5°	1551.4	1549.1	1534.2	1495.0	1453.8	1364.4	1261.7	1145.0	1009.6	989.6	880.2
10°	1747.1	1746.2	1741.2	1712.4	1677.4	1591.7	1478.3	1319.0	1132.8	1105.5	950.4
12.5°	1898.2	1899.9	1903.3	1893.2	1876.5	1803.5	1687.3	1503.4	1264.3	1237.2	1028.5
15°	2000.6	2005.7	2023.2	2037.5	2046.3	2001.5	1888.9	1692.1	1411.5	1379.0	1115.1
17.5°	2052.2	2057.9	2088.0	2131.5	2171.5	2167.0	2077.6	1872.0	1552.8	1521.5	1208.1
20°	2096.8	2101.0	2134.8	2187.0	2257.8	2289.1	2238.9	2045.2	1707.6	1670.4	1306.9
22.5°	2225.9	2231.3	2241.4	2271.1	2333.7	2391.2	2366.9	2209.0	1849.4	1814.8	1400.5
25°	2475.2	2481.7	2459.7	2434.6	2446.5	2486.5	2491.0	2358.5	1993.3	1954.1	1501.2
27.5°	2775.6	2784.9	2747.4	2682.8	2626.4	2610.9	2605.5	2480.9	2130.6	2085.2	1600.7
30°	3069.7	3085.8	3037.0	2953.2	2849.7	2777.0	2723.1	2600.7	2266.0	2222.5	1694.6
32.5°	3357.1	3350.6	3279.8	3198.0	3076.8	2985.7	2855.4	2729.3	2418.3	2368.3	1788.0
35°	3553.9	3556.2	3490.5	3393.5	3277.8	3207.9	3032.5	2868.1	2573.7	2527.7	1894.0
37.5°	3721.5	3711.0	3636.6	3546.0	3446.5	3416.6	3239.8	3020.9	2742.0	2691.8	2006.8
40°	3777.3	3765.2	3716.4	3651.2	3571.4	3568.9	3468.5	3194.1	2932.4	2882.7	2134.0
42.5°	3743.4	3727.9	3707.9	3690.1	3665.6	3676.9	3683.4	3397.1	3141.6	3086.1	2281.2
45°	3618.5	3595.1	3609.2	3647.8	3701.1	3764.9	3877.4	3621.9	3376.0	3329.5	2454.1
47.5°	3426.5	3405.3	3449.3	3531.9	3676.9	3838.2	4061.0	3870.1	3655.7	3609.5	2700.3
50°	3156.3	3162.5	3225.4	3375.7	3594.8	3872.0	4287.2	4198.6	4062.4	4019.3	3036.2
52.5°	2713.0	2714.1	2891.2	3138.0	3449.3	3854.6	4412.7	4618.5	4617.7	4565.5	3356.0
55°	2301.2	2326.3	2466.5	2794.5	3213.5	3784.6	4500.4	4822.7	4982.3	4921.1	3654.0
57.5°	1899.1	1913.7	2046.6	2376.0	2877.1	3598.2	4590.3	5067.8	5402.5	5363.9	4024.6
60°	1441.7	1464.2	1601.6	1905.8	2446.7	3267.4	4598.8	5323.6	5904.8	5865.9	4438.3
62.5°	935.7	974.6	1103.2	1388.4	1926.2	2791.7	4402.5	5490.8	6380.8	6367.0	4805.5
65°	537.8	567.1	656.5	876.5	1328.8	2194.3	3935.8	5426.5	6673.9	6666.0	4942.9
66°	439.4	457.7	526.2	685.0	1096.5	1927.0	3664.5	5290.9	6702.9	6703.2	4927.1
67.5°	351.4	359.6	390.3	490.4	809.1	1527.4	3179.7	4991.6	6666.8	6676.7	4825.3
70°	290.8	295.0	304.6	328.8	441.6	921.1	2257.0	4214.1	6304.4	6312.0	4427.9
72.5°	260.9	263.4	267.1	270.5	311.6	514.7	1378.5	3371.2	5527.5	5537.3	3822.4
75°	236.3	237.7	237.2	237.5	261.4	328.0	712.4	2517.0	4469.4	4449.6	2928.1
77.5°	207.6	209.0	206.2	206.7	231.3	252.1	354.5	1762.0	3016.1	2876.8	1649.8
80°	175.4	176.5	175.4	177.4	201.4	190.4	206.2	991.3	1333.6	1261.4	586.6
82.5°	132.5	137.3	140.7	148.6	165.8	135.4	137.9	386.1	406.1	386.6	179.9
85°	58.1	70.8	106.0	113.7	124.6	81.2	90.5	157.4	165.3	160.2	65.4
87.5°	15.2	16.6	52.5	66.0	69.1	36.7	47.1	71.6	75.6	71.6	21.7
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: P317346

CATALOG NUMBER: GAN-SA2A-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6
2.5°	767.1	753.3	728.4	706.4	689.8	678.5	667.2	661.6	658.2	654.8	655.4
5°	791.6	763.7	721.1	690.9	674.0	663.3	657.7	655.4	654.0	650.6	650.6
7.5°	828.6	789.1	730.4	699.4	686.1	678.0	674.6	673.4	671.8	667.8	668.4
10°	875.1	819.8	749.9	719.7	707.6	698.5	693.8	692.1	689.0	684.4	685.0
12.5°	929.8	857.9	775.5	744.0	729.3	717.2	709.3	704.5	699.1	693.2	693.5
15°	989.6	899.3	803.2	765.7	745.6	728.7	716.0	707.9	699.4	692.1	691.8
17.5°	1050.2	939.4	824.3	777.5	750.4	728.2	711.0	698.3	687.8	678.8	678.0
20°	1115.6	975.5	836.2	776.4	741.4	714.9	692.1	676.3	664.7	655.7	654.3
22.5°	1182.2	1009.3	838.1	764.8	721.4	689.0	665.0	647.5	635.7	626.4	623.0
25°	1243.1	1035.6	830.0	742.5	693.5	658.5	635.1	617.3	607.7	596.7	593.4
27.5°	1298.7	1053.9	813.6	714.1	662.2	627.8	605.8	590.5	580.1	571.6	568.8
30°	1348.6	1063.8	786.8	680.2	630.0	598.7	580.1	569.7	560.6	549.9	548.0
32.5°	1396.0	1063.8	752.4	643.3	598.2	573.1	562.1	555.6	545.4	535.0	532.2
35°	1443.3	1057.3	711.8	604.6	568.8	554.7	554.2	546.5	531.0	516.9	513.3
37.5°	1493.3	1044.0	666.1	568.5	544.9	546.5	551.3	534.4	512.4	492.4	487.0
40°	1549.7	1025.7	618.7	537.2	524.8	542.9	543.7	516.9	474.1	455.7	450.9
42.5°	1615.9	1007.4	574.7	509.6	509.0	531.9	529.3	479.1	453.5	444.2	441.6
45°	1703.1	996.9	533.0	483.4	496.6	514.1	504.8	458.3	447.6	442.2	439.9
47.5°	1840.4	1002.3	494.7	462.5	484.2	496.3	459.1	449.8	442.2	435.7	433.5
50°	2012.4	999.2	463.6	448.1	470.1	477.7	438.5	438.8	434.9	427.5	424.1
52.5°	2141.9	974.9	443.6	439.9	457.7	444.7	425.6	428.1	426.1	415.4	411.7
55°	2266.8	954.1	433.5	436.8	448.7	403.6	410.3	416.5	414.6	404.1	402.4
57.5°	2422.2	950.1	427.3	437.7	441.1	383.0	395.7	403.8	402.4	397.9	397.1
60°	2612.6	951.2	421.6	439.1	432.6	367.7	381.8	392.3	393.1	392.3	391.7
62.5°	2717.2	920.5	407.5	435.1	417.7	354.5	367.5	382.7	383.0	384.7	384.4
65°	2628.4	828.6	381.3	421.3	392.6	343.5	355.1	371.7	367.5	375.1	375.1
66°	2542.1	775.5	368.3	412.3	381.8	339.3	351.1	366.1	360.7	371.1	371.1
67.5°	2365.8	686.1	344.9	393.1	366.6	333.3	346.6	356.7	349.4	364.9	363.8
70°	2043.8	530.7	297.8	349.7	341.5	324.6	340.4	338.1	327.4	351.1	346.6
72.5°	1723.1	403.3	239.1	292.7	303.4	313.6	331.6	314.4	300.9	317.5	307.7
75°	1337.0	303.2	188.9	227.6	256.4	296.4	321.2	287.1	267.6	265.9	260.6
77.5°	722.8	208.1	149.7	173.7	203.6	275.0	314.2	257.8	228.4	221.7	217.4
80°	286.2	135.4	108.9	131.7	142.4	243.9	297.2	223.6	188.4	181.6	175.1
82.5°	118.2	80.1	70.2	88.3	92.8	208.7	266.8	183.3	145.5	201.4	213.8
85°	50.8	44.0	41.7	45.7	52.5	146.4	212.4	139.9	157.1	140.2	111.4
87.5°	15.2	18.6	17.8	17.5	19.2	35.0	113.1	77.8	115.3	43.7	32.7
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)