

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: P321196

Luminaire Tested: **GAN-SA2B-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7892 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

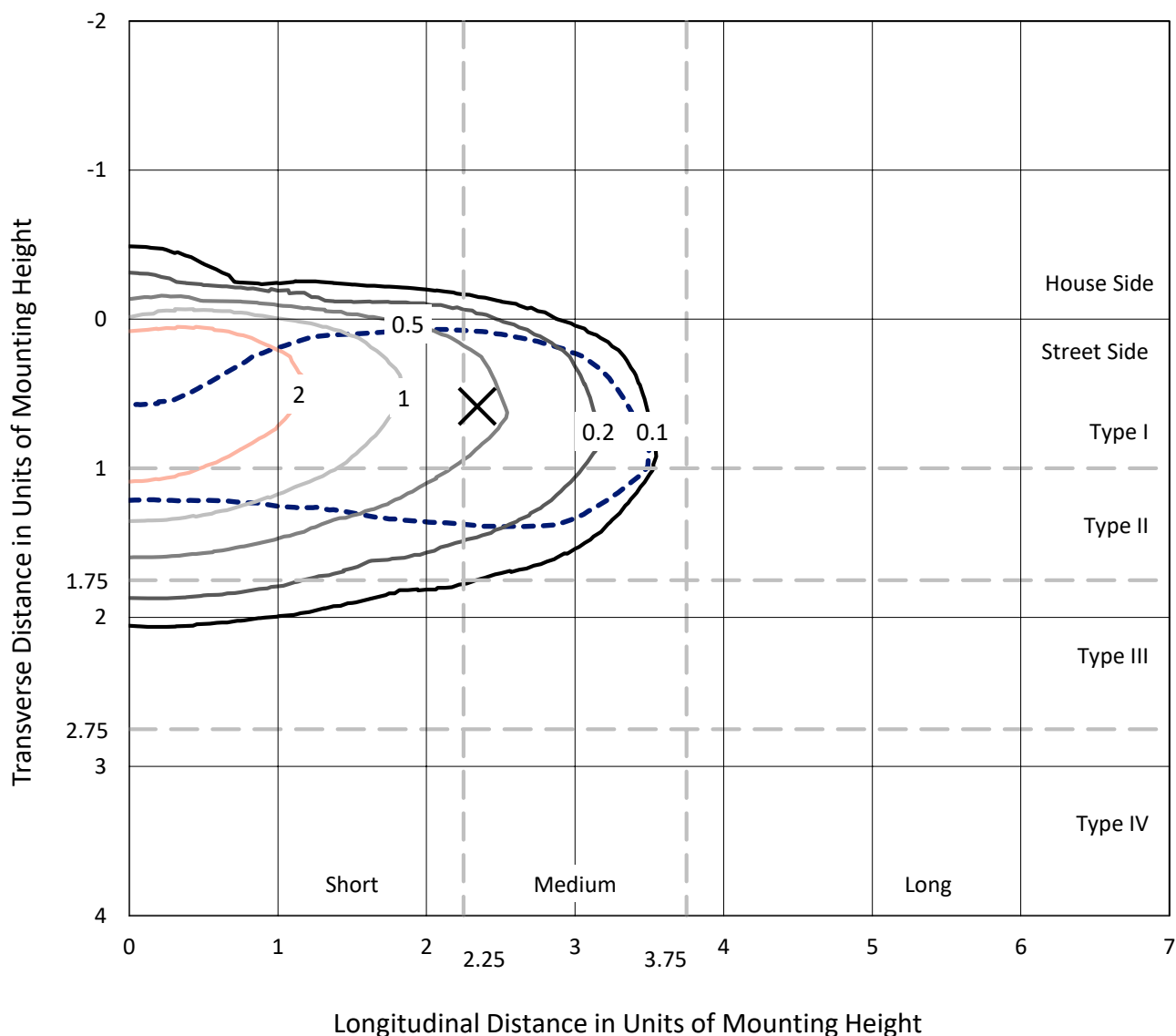
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321196
 CATALOG NUMBER: GAN-SA2B-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

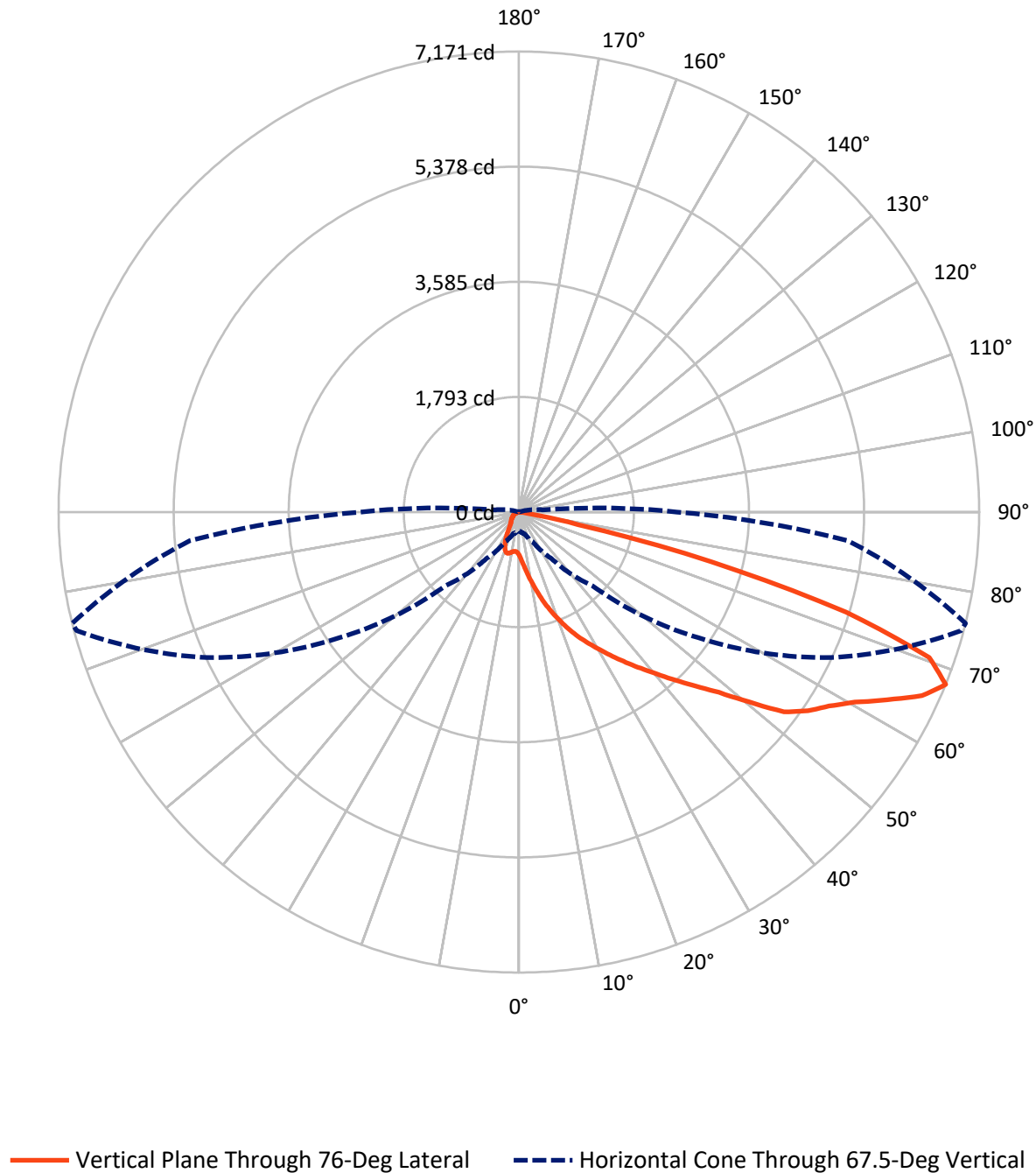
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P321196
CATALOG NUMBER: GAN-SA2B-727-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321196

CATALOG NUMBER: GAN-SA2B-727-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.9	0.0	391.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7500.1	0.0	7500.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	7892.0	0.0	7892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.1
10°-20°	330.0	4.2
20°-30°	671.5	8.5
30°-40°	1165.4	14.8
40°-50°	1646.6	20.9
50°-60°	1867.3	23.7
60°-70°	1548.8	19.6
70°-80°	561.0	7.1
80°-90°	18.2	0.2
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°	7892.0	100.0
0°-180°	7892.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321196

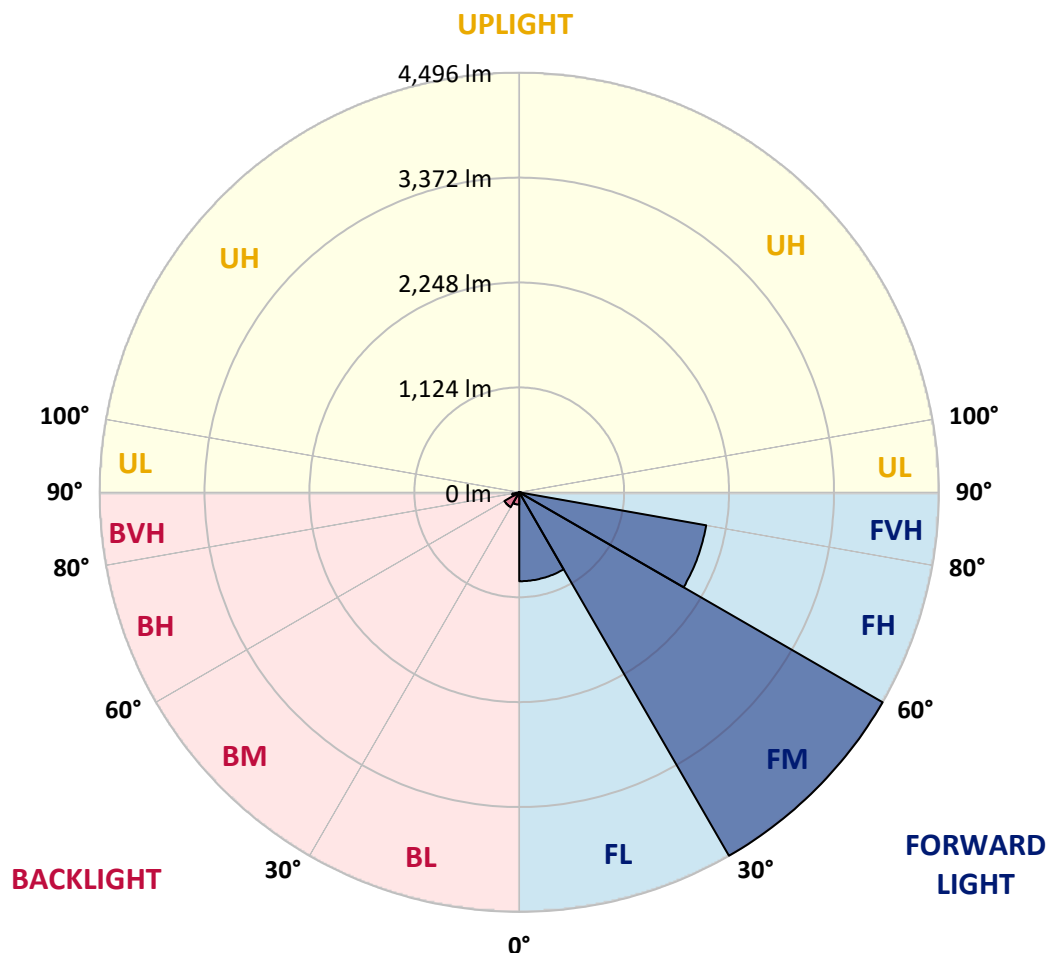
CATALOG NUMBER: GAN-SA2B-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	952.5	12.1			
FM	(30°-60°)	4495.9	57.0			
FH	(60°-80°)	2034.0	25.8			G2/5000
FVH	(80°-90°)	17.6	0.2			G1/100
BL	(0°-30°)	132.2	1.7	B1/500		
BM	(30°-60°)	183.4	2.3	B0/220		
BH	(60°-80°)	75.7	1.0	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
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 Medium



REPORT NUMBER: P321196

CATALOG NUMBER: GAN-SA2B-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5
2.5°	999.4	976.9	982.1	967.6	941.3	887.3	841.3	797.8	746.9	745.2	703.4
5°	1347.6	1328.6	1326.1	1296.8	1249.0	1157.4	1068.2	966.5	853.1	844.8	755.9
7.5°	1663.6	1648.4	1642.9	1608.0	1519.1	1429.9	1313.7	1164.3	986.9	971.7	826.8
10°	1906.4	1899.1	1900.5	1875.6	1799.5	1716.6	1564.1	1373.5	1138.7	1115.2	911.9
12.5°	2090.4	2092.1	2104.5	2089.3	2046.8	1985.2	1822.4	1596.6	1306.8	1274.6	1009.0
15°	2225.6	2234.2	2257.0	2276.1	2272.9	2219.7	2070.3	1823.1	1485.2	1449.6	1117.3
17.5°	2313.1	2322.7	2355.9	2398.1	2436.9	2424.4	2309.6	2041.6	1665.7	1624.6	1233.1
20°	2389.8	2401.2	2436.9	2492.5	2564.8	2580.4	2505.0	2253.6	1845.9	1795.7	1352.8
22.5°	2556.2	2555.8	2577.6	2610.1	2678.9	2719.0	2671.3	2450.3	2024.0	1971.8	1474.8
25°	2857.0	2845.6	2838.0	2812.4	2827.6	2852.5	2825.9	2634.3	2203.1	2150.2	1598.6
27.5°	3214.6	3221.5	3159.9	3091.1	3037.9	3012.3	2968.7	2804.8	2375.3	2317.2	1719.7
30°	3591.8	3593.9	3521.3	3433.5	3316.2	3219.1	3143.7	2967.7	2552.4	2489.1	1837.2
32.5°	3932.1	3918.6	3846.7	3727.0	3579.0	3469.8	3313.1	3149.6	2739.8	2678.6	1968.0
35°	4201.8	4185.9	4098.4	3989.5	3836.0	3726.0	3537.5	3331.1	2936.9	2877.1	2099.0
37.5°	4398.9	4380.3	4290.3	4178.3	4045.9	3981.9	3797.9	3528.6	3152.0	3087.7	2237.0
40°	4467.4	4451.1	4394.8	4312.8	4206.3	4191.8	4074.2	3755.7	3386.1	3317.6	2393.3
42.5°	4426.6	4410.7	4390.6	4363.0	4318.7	4332.5	4335.0	4014.7	3646.1	3578.7	2565.8
45°	4264.8	4250.6	4271.3	4311.8	4366.8	4435.2	4572.9	4293.1	3936.6	3864.7	2765.4
47.5°	4026.5	4016.1	4073.5	4174.5	4335.3	4524.1	4790.4	4585.7	4262.7	4195.9	3014.3
50°	3687.6	3685.9	3800.7	3985.0	4232.3	4567.0	5015.1	4918.3	4715.7	4645.5	3360.5
52.5°	3159.9	3163.4	3389.2	3684.2	4051.4	4537.9	5159.7	5345.7	5242.7	5169.7	3660.3
55°	2657.5	2678.2	2838.3	3263.7	3774.1	4430.1	5209.5	5545.3	5533.5	5464.3	3827.0
57.5°	2165.4	2203.1	2357.3	2754.6	3369.1	4181.4	5182.2	5631.7	5750.0	5697.1	4046.9
60°	1632.2	1649.5	1827.2	2198.6	2849.4	3727.7	4984.0	5678.7	6046.0	6009.3	4366.1
62.5°	1038.4	1081.7	1239.3	1597.6	2218.7	3097.7	4650.0	5678.0	6416.3	6436.4	4777.9
65°	547.1	597.5	681.2	990.0	1524.6	2394.0	4147.5	5624.8	6870.7	6898.7	5099.9
67.5°	295.0	309.5	353.8	513.9	884.2	1621.8	3409.2	5362.0	7133.9	7170.9	5144.8
70°	215.8	223.7	240.3	284.2	445.0	942.0	2487.7	4766.2	6794.6	6780.8	4571.1
72.5°	165.6	178.1	190.5	208.2	255.9	502.8	1548.8	3732.2	5421.5	5330.2	3416.9
75°	130.7	132.8	150.4	166.3	191.9	286.3	687.8	2173.7	3309.0	3092.8	1771.9
77.5°	104.4	105.8	116.2	130.0	154.2	188.1	213.0	855.2	1056.4	942.7	384.5
80°	61.9	65.4	86.5	100.3	127.9	118.6	77.8	185.7	164.9	149.4	64.7
82.5°	34.6	37.3	48.8	79.2	89.2	56.7	38.7	50.1	38.7	37.7	18.3
85°	0.0	1.7	31.5	49.1	36.3	12.4	16.3	16.6	11.4	10.7	7.3
87.5°	0.0	0.0	9.7	9.3	1.4	2.1	3.8	5.5	4.5	4.5	3.8
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: P321196

CATALOG NUMBER: GAN-SA2B-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5
2.5°	682.6	663.9	628.7	594.1	565.0	541.2	519.7	511.1	504.2	503.1	497.6
5°	713.0	675.3	607.9	552.6	515.6	489.3	466.8	453.0	442.3	438.1	434.3
7.5°	759.0	702.0	605.2	541.5	497.3	453.0	411.5	366.5	338.5	327.8	321.6
10°	815.1	737.2	615.5	538.4	461.0	367.6	298.8	241.7	218.5	210.9	208.9
12.5°	880.4	781.2	633.5	519.0	383.5	261.1	206.1	186.7	181.5	179.1	179.1
15°	955.4	829.2	646.3	463.0	283.6	197.5	178.4	169.4	163.9	160.8	161.1
17.5°	1032.2	876.3	640.1	381.8	209.2	175.7	161.5	151.8	144.2	141.1	140.4
20°	1109.7	919.8	605.5	284.2	177.0	159.4	143.5	132.8	125.2	122.1	121.4
22.5°	1189.9	956.8	544.6	208.5	159.1	141.4	125.9	115.2	107.9	105.1	103.7
25°	1268.1	986.9	459.6	168.8	142.1	124.5	109.6	99.6	93.0	90.3	89.9
27.5°	1341.0	1005.9	361.0	149.0	127.3	109.3	95.8	86.8	81.3	79.2	78.8
30°	1406.7	1007.7	267.0	134.5	114.1	96.1	83.7	75.7	70.9	68.8	68.1
32.5°	1473.1	993.1	194.3	121.4	102.0	84.7	72.6	66.4	62.9	61.2	61.2
35°	1535.7	959.6	151.5	110.0	90.3	73.7	64.0	59.5	57.4	55.7	55.7
37.5°	1596.9	911.5	128.6	99.9	79.2	64.3	56.4	53.6	51.9	50.1	50.1
40°	1659.2	851.0	116.9	90.6	70.2	57.1	50.1	47.7	46.0	44.6	44.3
42.5°	1735.6	781.2	109.3	82.0	62.2	50.5	44.3	41.5	40.1	38.7	38.0
45°	1824.1	721.0	103.0	73.3	55.7	45.0	38.4	35.6	33.5	31.8	31.5
47.5°	1951.7	677.4	94.7	64.0	49.4	39.1	33.2	30.1	27.0	25.2	24.9
50°	2114.6	641.5	84.0	55.7	43.2	33.2	27.7	23.9	21.1	19.4	19.4
52.5°	2195.5	594.4	74.3	48.4	36.3	28.0	22.5	18.0	16.6	14.9	14.9
55°	2228.0	558.5	64.7	41.2	30.1	23.2	17.6	13.8	12.8	11.8	11.4
57.5°	2319.3	548.1	56.4	34.9	24.9	18.3	13.5	10.4	9.7	8.3	8.3
60°	2466.3	553.3	48.8	29.7	20.1	14.2	10.0	8.0	7.3	5.9	5.9
62.5°	2625.0	546.7	41.2	25.6	15.6	10.4	6.9	5.9	5.9	3.5	3.1
65°	2655.4	486.9	35.3	21.1	12.1	7.6	4.5	3.8	5.2	0.7	0.0
67.5°	2464.5	377.6	30.4	16.3	9.0	5.9	3.5	1.7	4.5	0.0	0.0
70°	1970.7	240.0	24.6	11.8	6.9	4.8	2.8	0.7	3.5	0.0	0.0
72.5°	1393.6	139.4	19.4	8.3	5.9	3.8	2.1	0.0	2.1	0.0	0.0
75°	704.7	74.3	12.1	6.2	4.5	2.8	1.4	0.0	0.3	0.0	0.0
77.5°	152.5	34.6	7.6	4.5	3.1	1.7	0.7	0.0	0.0	0.0	0.0
80°	33.2	15.2	4.8	2.8	1.7	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.1	8.0	2.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.6	4.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)