

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: P322786

Luminaire Tested: **GAN-SA2A-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5780 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

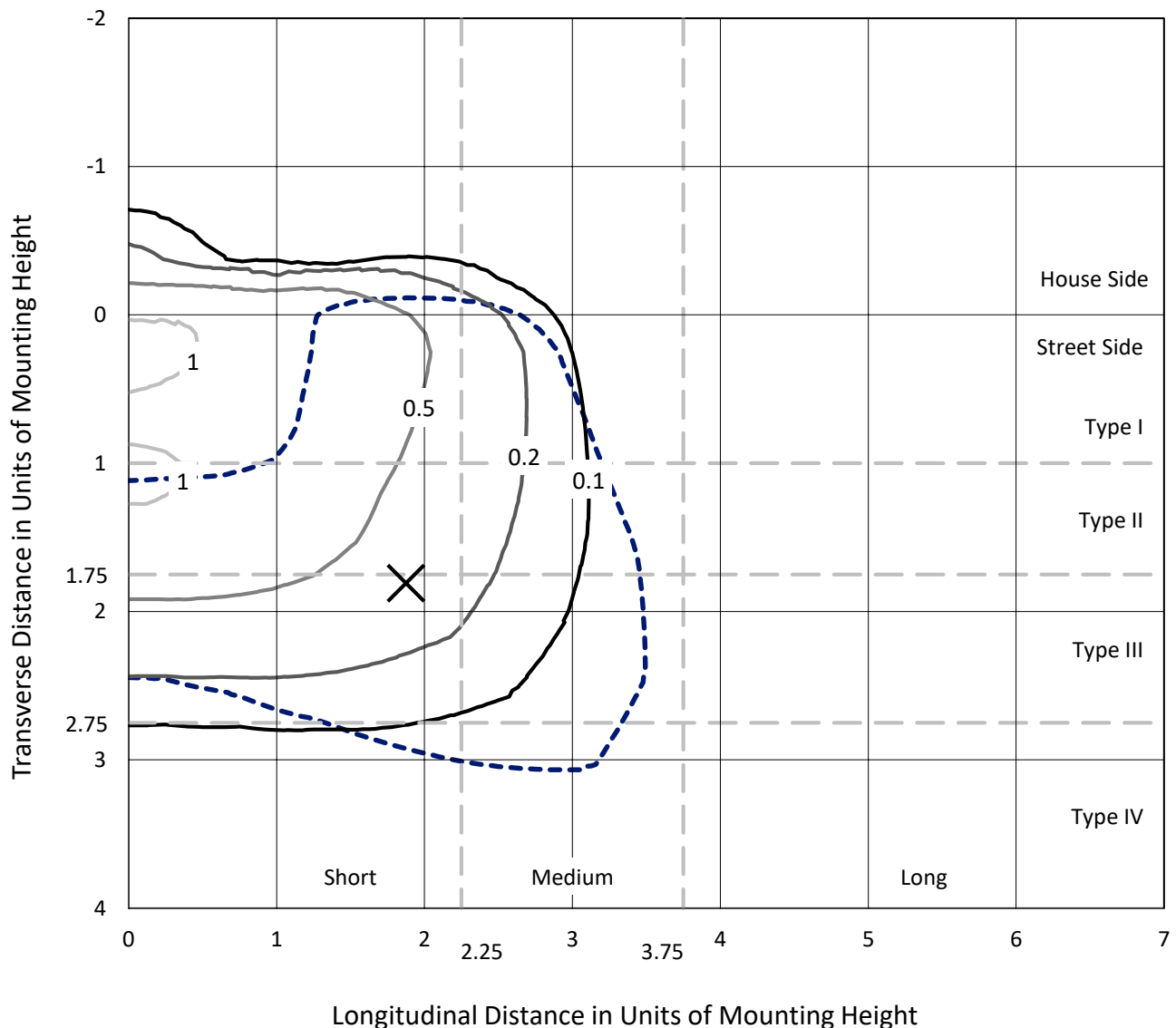
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

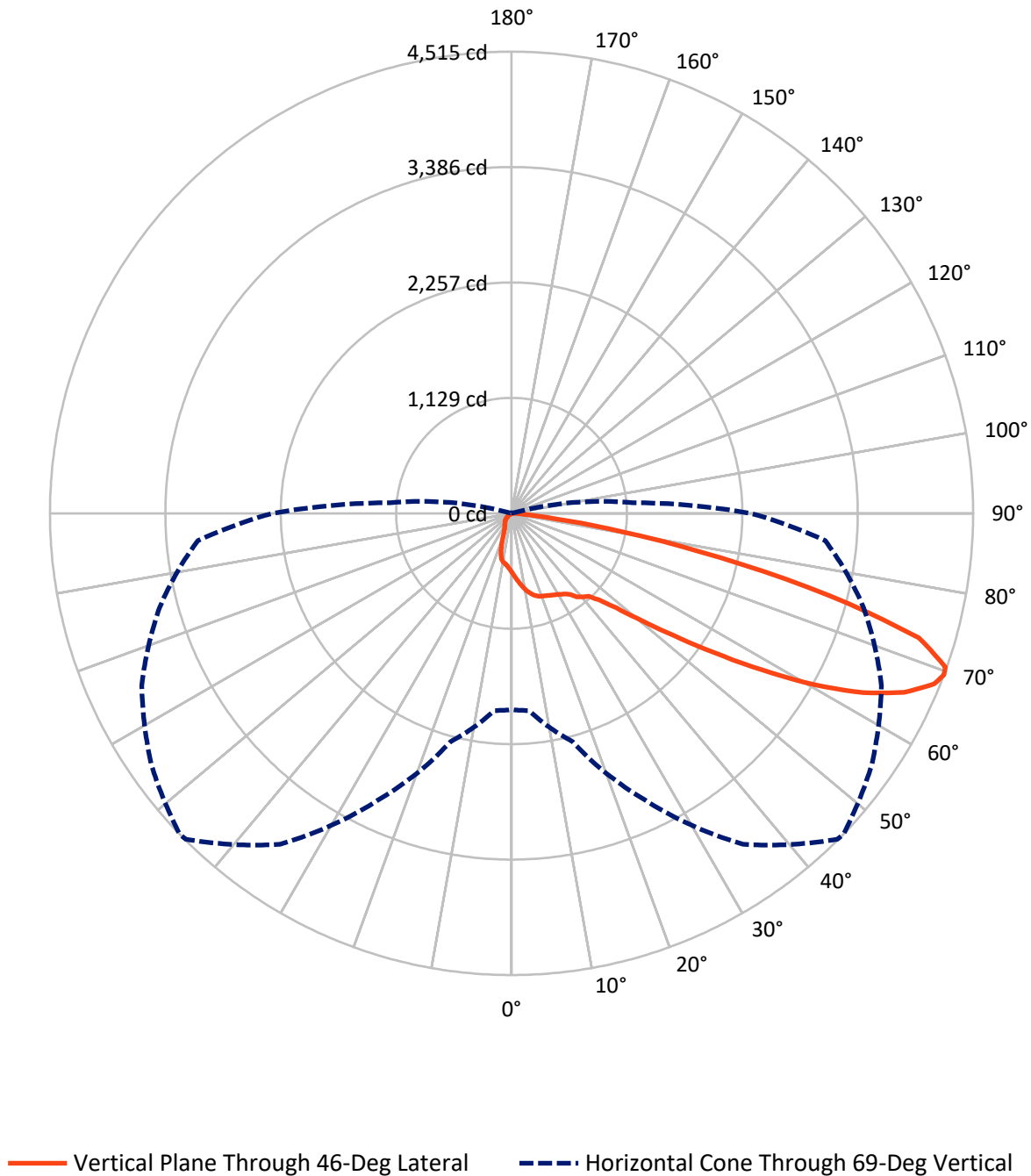
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	593.2	0.0	593.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5186.8	0.0	5186.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	5780.0	0.0	5780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	1.0
10°-20°	174.9	3.0
20°-30°	275.0	4.8
30°-40°	394.4	6.8
40°-50°	681.7	11.8
50°-60°	1346.7	23.3
60°-70°	1882.1	32.6
70°-80°	909.2	15.7
80°-90°	58.4	1.0
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°	5780.0	100.0
0°-180°	5780.0	100.0

Coefficient of Utilization



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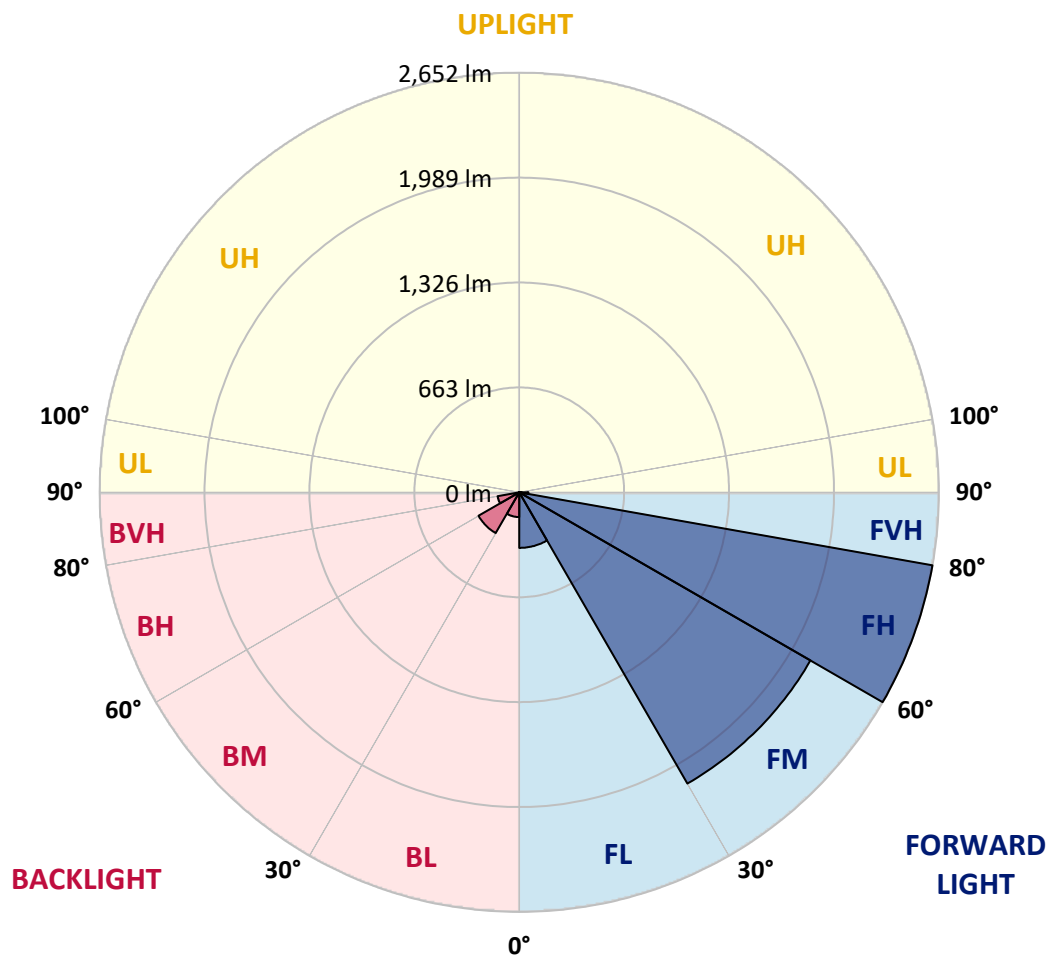
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.2	6.1			
FM	(30°-60°)	2125.4	36.8			
FH	(60°-80°)	2652.2	45.9			G2/5000
FVH	(80°-90°)	57.9	1.0			G1/100
BL	(0°-30°)	156.3	2.7	B1/500		
BM	(30°-60°)	297.3	5.1	B1/1000		
BH	(60°-80°)	139.1	2.4	B1/500		G1/500
BVH	(80°-90°)	0.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1
2.5°	643.4	642.5	638.8	637.1	627.9	622.5	620.3	613.6	603.8	594.0	583.2
5°	716.5	716.3	709.2	702.4	685.1	668.8	665.9	650.1	628.2	607.6	587.0
7.5°	791.3	787.8	780.8	767.8	742.5	716.5	714.1	691.9	660.7	630.9	601.4
10°	854.7	852.6	843.4	823.6	794.0	764.5	761.5	734.1	698.9	662.3	624.7
12.5°	904.1	902.4	890.2	865.6	834.1	803.5	799.5	775.1	737.4	696.5	652.0
15°	934.1	933.3	918.4	892.1	861.2	834.7	831.2	809.8	774.8	732.0	681.8
17.5°	941.2	941.5	926.0	899.5	874.0	855.0	852.3	836.0	806.8	764.2	711.7
20°	925.5	928.7	914.9	891.9	876.2	866.1	864.0	854.2	829.5	789.4	735.5
22.5°	903.3	904.9	895.4	879.9	873.4	875.3	874.3	868.8	848.0	811.1	759.1
25°	889.7	889.7	884.0	871.0	875.3	887.0	887.3	886.2	869.7	837.7	787.8
27.5°	889.2	887.5	881.0	871.3	883.2	901.1	902.2	909.5	899.2	869.9	823.6
30°	910.8	908.9	895.1	882.4	897.6	916.8	919.5	935.5	930.4	904.9	863.4
32.5°	961.5	954.7	924.1	903.3	914.6	937.7	941.2	966.7	974.8	948.0	901.9
35°	1030.9	1009.5	965.3	942.8	943.9	968.0	971.3	1008.7	1032.8	987.5	931.7
37.5°	1126.6	1116.0	1044.2	984.0	988.9	1025.5	1035.0	1075.6	1068.8	1009.2	965.6
40°	1336.3	1319.8	1243.4	1099.5	1032.0	1072.1	1075.1	1096.8	1097.3	1058.3	1036.0
42.5°	1622.0	1615.2	1534.7	1308.9	1116.8	1103.3	1108.7	1145.3	1186.2	1161.8	1160.7
45°	1938.2	1934.7	1849.3	1587.0	1288.4	1205.4	1212.2	1261.3	1339.6	1345.0	1379.4
47.5°	2192.7	2191.1	2142.0	1897.3	1551.0	1378.6	1380.8	1432.8	1570.5	1638.5	1693.5
50°	2424.7	2432.5	2393.8	2233.1	1908.7	1649.9	1644.7	1679.4	1900.5	2011.9	2080.2
52.5°	2747.2	2758.3	2649.6	2546.3	2284.0	1986.5	1982.4	2018.7	2297.3	2380.8	2393.0
55°	3032.0	3013.0	2927.1	2897.3	2741.7	2402.2	2401.1	2433.1	2681.0	2716.5	2739.0
57.5°	3157.7	3150.4	3191.9	3260.2	3221.1	2893.5	2891.1	2866.7	3024.4	3028.2	3097.3
60°	3237.1	3246.1	3373.2	3583.7	3681.0	3422.2	3406.5	3257.7	3352.3	3343.9	3417.9
62.5°	3177.5	3195.1	3423.9	3774.8	4025.2	3883.8	3861.5	3616.0	3632.5	3603.5	3672.4
65°	2861.0	2888.4	3263.2	3738.8	4195.9	4244.5	4222.0	3932.3	3855.0	3807.3	3769.1
67.5°	2323.0	2339.3	2730.6	3425.2	4119.0	4459.6	4455.0	4209.5	4023.0	3772.9	3476.4
69°	1919.8	1935.8	2312.5	3095.1	3949.6	4505.7	4514.6	4298.4	3991.1	3563.7	3080.2
70°	1626.0	1643.1	1994.0	2812.2	3753.1	4484.3	4500.3	4290.0	3899.5	3321.4	2732.5
72.5°	852.8	867.5	1227.6	1937.4	3059.6	4117.6	4166.1	3927.4	3305.4	2412.2	1615.7
75°	268.0	276.4	479.4	1012.7	2094.9	3201.6	3212.7	3080.8	2347.2	1326.8	672.9
77.5°	102.2	99.7	159.6	373.2	1059.1	2016.0	2084.0	1925.2	1231.7	469.1	155.3
80°	55.0	55.3	82.9	154.5	453.1	1036.0	1093.5	933.1	437.7	146.3	35.8
82.5°	23.8	24.9	46.6	81.8	208.1	382.1	410.8	342.0	167.2	98.4	13.3
85°	5.1	5.7	22.5	44.4	84.8	107.3	112.5	110.8	106.5	76.4	5.1
87.5°	0.0	0.0	10.0	16.0	21.4	24.4	21.4	27.9	58.8	51.5	2.7
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°	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1
2.5°	579.7	574.8	566.4	557.2	550.7	543.9	538.5	536.0	533.3	531.4	533.9
5°	578.6	569.1	552.8	537.1	525.7	516.5	508.9	506.0	503.0	500.8	500.5
7.5°	588.1	574.8	549.9	526.8	509.2	496.7	486.5	482.1	478.6	477.0	475.6
10°	606.2	589.2	555.8	525.7	503.0	481.8	459.6	442.5	431.4	426.3	424.4
12.5°	629.8	608.4	567.2	531.4	498.4	457.7	410.6	369.9	343.6	335.0	329.8
15°	657.5	630.9	582.1	538.8	481.6	407.3	327.4	274.3	249.9	245.0	239.6
17.5°	684.0	654.7	600.0	540.1	444.7	325.5	239.8	203.8	194.3	197.6	198.4
20°	707.3	678.3	617.6	528.2	377.8	244.2	185.6	176.7	180.2	186.5	187.5
22.5°	730.9	701.1	633.9	496.7	292.1	185.4	167.2	169.4	172.9	179.1	180.2
25°	759.6	728.7	649.1	439.0	219.2	157.7	158.8	162.1	165.6	171.3	171.8
27.5°	792.7	763.7	659.1	364.0	162.6	145.0	148.5	153.4	156.9	162.3	163.4
30°	836.6	809.8	662.3	286.2	136.3	133.6	135.2	141.2	146.3	151.2	152.0
32.5°	877.8	855.3	651.5	216.0	126.3	123.0	123.0	126.6	132.5	137.1	138.2
35°	915.7	901.1	616.8	158.0	118.7	113.3	110.6	110.6	114.4	118.2	119.2
37.5°	965.9	965.3	560.7	126.0	111.4	105.1	99.5	95.1	93.8	94.6	95.1
40°	1051.8	1052.6	487.5	113.0	105.1	96.7	88.1	80.2	72.9	70.5	70.2
42.5°	1185.9	1173.7	410.8	106.8	99.7	88.1	75.1	64.5	53.1	49.6	49.3
45°	1398.9	1326.6	329.5	101.1	94.0	78.3	62.1	47.7	38.5	35.8	35.8
47.5°	1709.2	1527.4	255.3	94.9	86.5	67.2	46.9	34.4	28.2	26.8	27.1
50°	2030.1	1724.1	195.7	87.0	77.2	55.6	34.7	24.9	21.4	21.4	21.7
52.5°	2314.6	1868.3	152.6	78.6	65.9	43.6	26.3	19.5	17.9	17.6	17.9
55°	2581.0	1961.3	116.8	68.8	52.3	32.5	20.1	16.0	14.9	14.4	14.1
57.5°	2837.9	2007.3	87.5	55.6	37.9	23.6	16.0	13.6	12.5	11.7	11.4
60°	3009.0	1969.9	60.2	40.9	26.3	17.1	13.3	11.7	10.3	9.5	9.2
62.5°	3105.4	1867.8	38.8	29.5	18.7	12.7	10.6	9.8	7.9	7.0	7.0
65°	3066.4	1699.2	27.1	21.1	13.6	9.5	7.9	7.9	5.7	4.6	4.3
67.5°	2717.4	1435.5	20.6	15.7	9.8	7.0	6.0	6.8	3.5	2.2	2.2
69°	2337.9	1189.7	17.6	13.0	8.1	5.7	5.1	6.2	2.4	1.6	1.4
70°	2032.0	1026.3	16.0	11.4	6.8	4.9	4.6	6.0	2.4	1.4	1.1
72.5°	1215.7	572.4	12.2	8.1	4.3	3.8	3.8	6.8	2.4	1.4	1.1
75°	491.3	201.6	8.9	5.7	3.3	3.3	4.6	8.7	2.2	1.1	0.8
77.5°	111.4	44.2	5.1	3.5	2.2	3.3	5.4	6.8	1.4	0.5	0.0
80°	27.1	10.8	3.3	2.2	1.4	2.4	4.1	3.8	0.3	0.0	0.0
82.5°	8.9	3.8	1.4	1.1	0.3	0.8	1.9	1.1	0.0	0.0	0.0
85°	3.8	2.2	0.5	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.4	0.8	0.0	0.0	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)