

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: P324726

Luminaire Tested: **GAN-SA2C-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9906 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

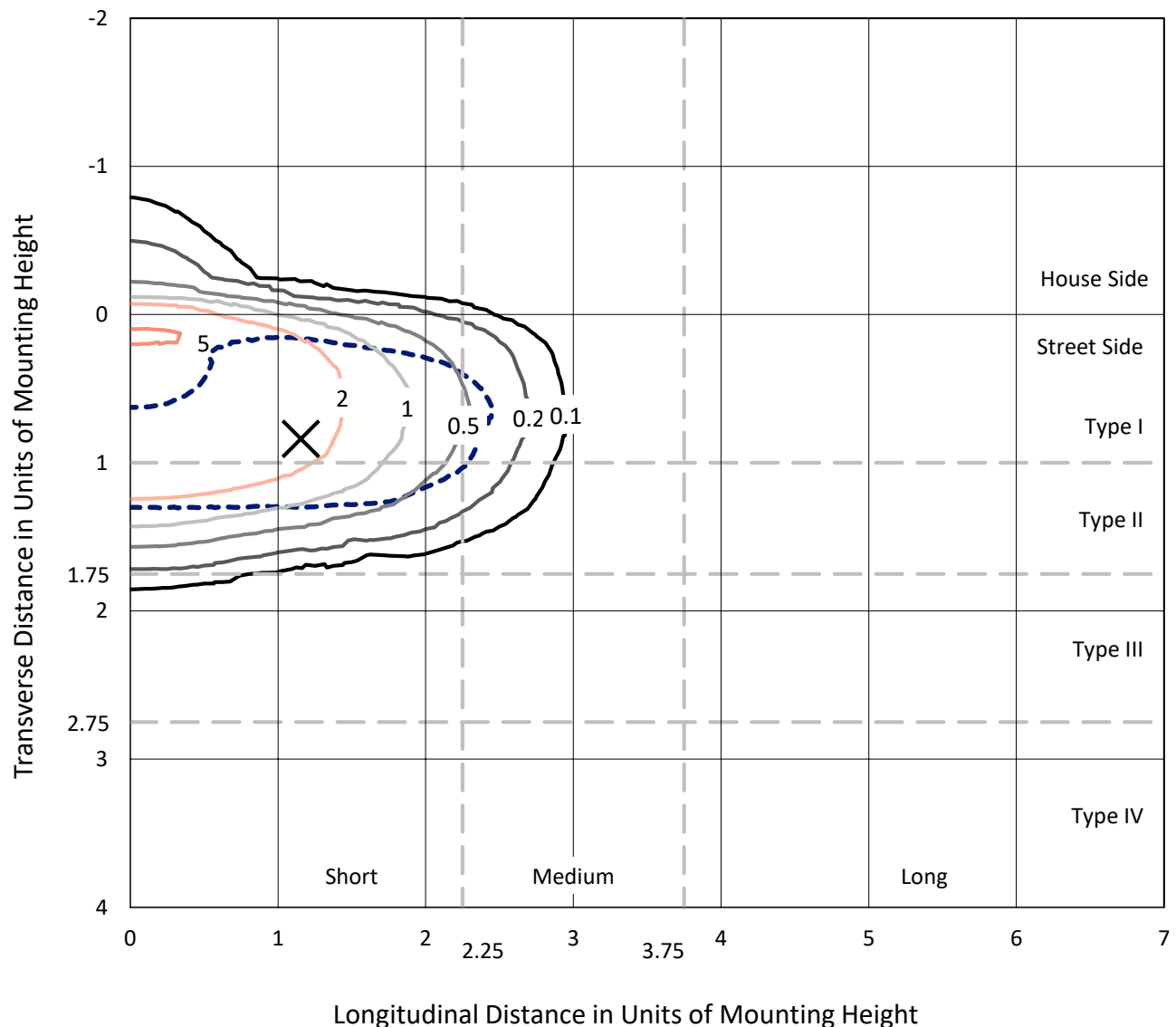
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

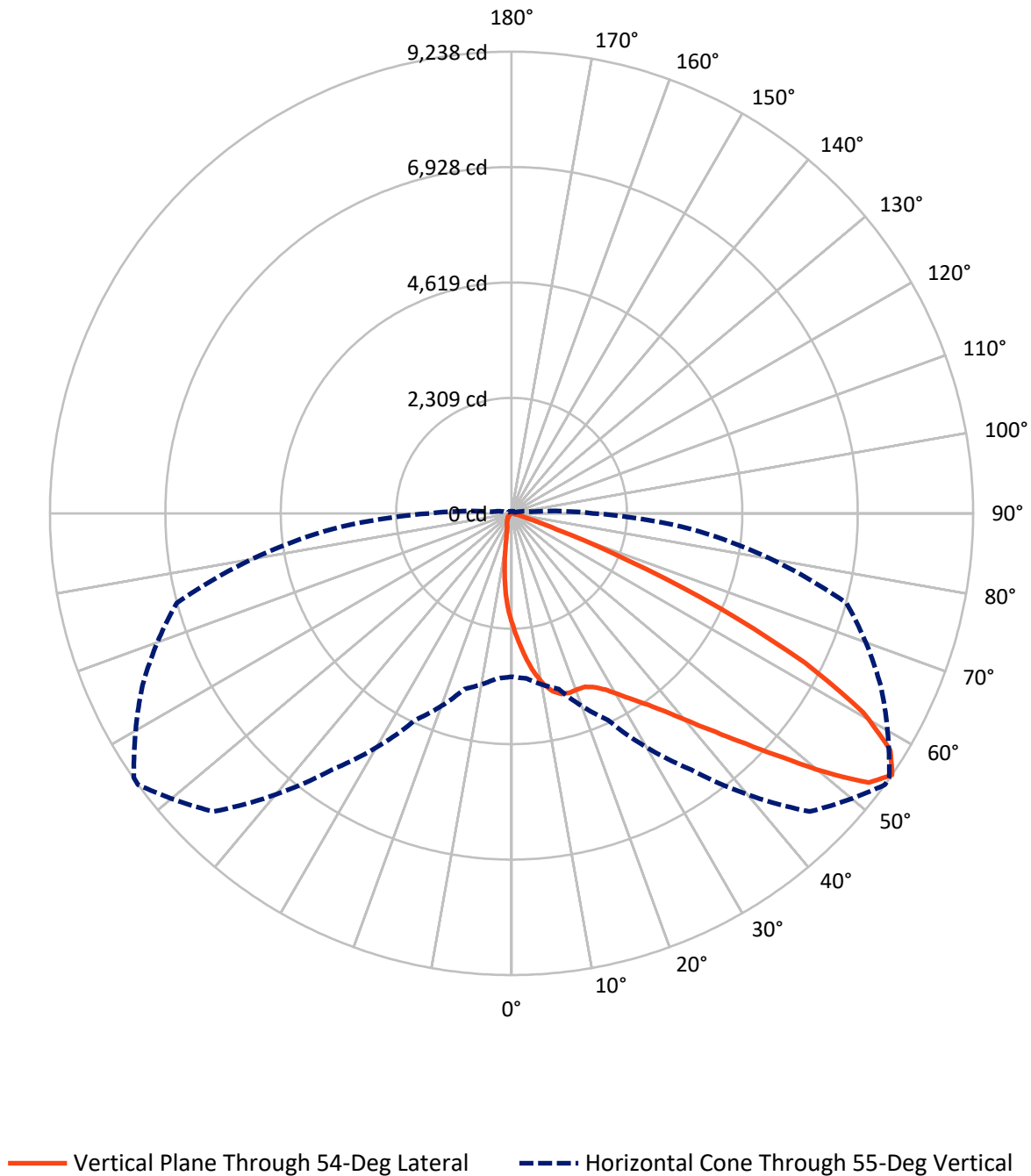
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.2	0.0	494.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9411.8	0.0	9411.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	9906.0	0.0	9906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	2.1
10°-20°	560.3	5.7
20°-30°	956.6	9.7
30°-40°	1535.2	15.5
40°-50°	2453.3	24.8
50°-60°	2628.8	26.5
60°-70°	1349.7	13.6
70°-80°	204.4	2.1
80°-90°	13.3	0.1
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°	9906.0	100.0
0°-180°	9906.0	100.0

Coefficient of Utilization



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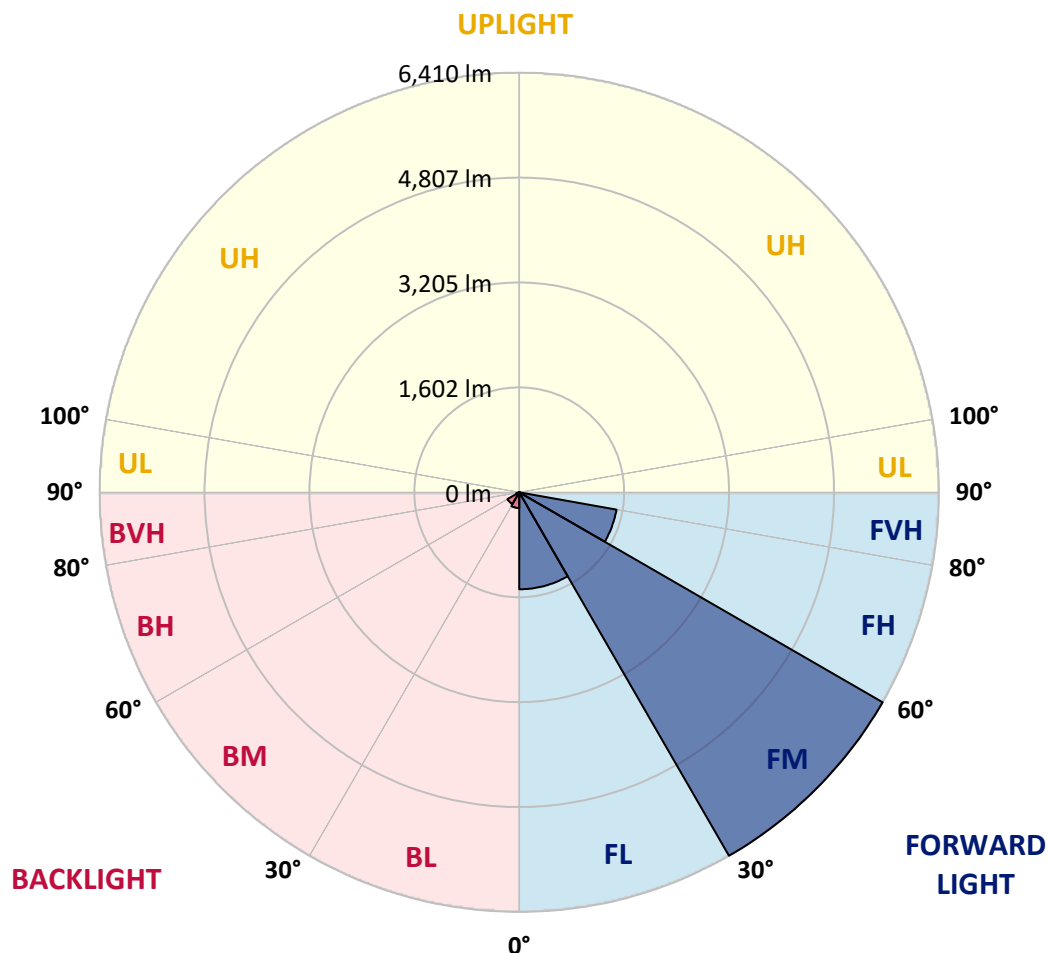
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.8	14.9			
FM	(30°-60°)	6409.6	64.7			
FH	(60°-80°)	1508.6	15.2			G1/1800
FVH	(80°-90°)	12.8	0.1			G1/100
BL	(0°-30°)	240.5	2.4	B1/500		
BM	(30°-60°)	207.7	2.1	B0/220		
BH	(60°-80°)	45.5	0.5	B0/110		G0/110
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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5
2.5°	2784.1	2742.6	2743.9	2725.1	2656.2	2602.3	2546.2	2533.0	2445.7	2354.2	2266.0
5°	3265.4	3235.0	3227.7	3191.4	3095.5	2994.1	2885.5	2860.2	2689.5	2502.2	2317.8
7.5°	3512.6	3513.1	3507.1	3493.8	3433.9	3335.5	3202.9	3176.4	2944.1	2663.0	2371.7
10°	3440.8	3457.0	3490.4	3534.4	3580.2	3567.8	3468.1	3444.2	3191.8	2833.3	2431.6
12.5°	3273.1	3275.2	3312.4	3384.7	3516.5	3651.7	3653.4	3645.2	3428.4	3011.3	2497.5
15°	3189.6	3197.8	3211.5	3258.1	3383.0	3599.5	3754.3	3765.9	3645.2	3200.3	2567.6
17.5°	3244.4	3256.0	3244.4	3250.0	3322.3	3516.9	3771.9	3801.4	3834.8	3387.3	2633.9
20°	3392.8	3403.5	3383.0	3360.3	3374.4	3492.9	3759.5	3799.3	3983.2	3553.3	2689.5
22.5°	3593.1	3597.3	3566.1	3528.9	3518.6	3574.2	3769.7	3810.8	4102.1	3703.4	2724.6
25°	3813.4	3817.2	3778.3	3735.5	3711.1	3733.8	3854.0	3884.8	4206.9	3846.7	2744.7
27.5°	4053.4	4056.8	4008.0	3955.4	3927.2	3928.0	3993.0	4026.0	4318.6	4010.2	2761.0
30°	4307.0	4305.3	4260.4	4187.3	4151.3	4150.5	4193.2	4226.6	4480.3	4219.8	2783.2
32.5°	4592.0	4588.5	4524.8	4434.1	4393.5	4399.4	4437.5	4456.8	4680.9	4443.1	2823.0
35°	4967.1	4957.3	4861.0	4748.5	4673.7	4671.5	4703.6	4719.0	4936.8	4713.4	2889.3
37.5°	5454.0	5445.0	5314.5	5151.1	5045.8	5006.5	5044.6	5064.2	5301.7	5060.4	2995.9
40°	5933.9	5925.0	5847.5	5697.8	5535.7	5441.1	5471.1	5492.0	5757.3	5481.3	3130.2
42.5°	6265.1	6272.8	6299.7	6312.1	6160.3	5961.8	5975.4	5997.3	6236.0	5931.4	3283.8
45°	6352.3	6369.0	6521.3	6820.3	6877.2	6722.4	6579.1	6591.0	6722.4	6381.4	3437.3
47.5°	6090.1	6120.9	6414.8	6970.9	7452.6	7562.1	7290.9	7275.1	7189.1	6745.5	3546.4
50°	5494.2	5522.4	5903.1	6725.8	7627.2	8363.8	8143.9	8097.3	7598.5	6963.2	3584.9
52.5°	4631.7	4666.0	4975.3	5954.1	7298.2	8721.5	8951.6	8912.7	7898.8	6980.3	3591.3
55°	3270.9	3312.4	3639.7	4563.3	6255.7	8437.0	9237.8	9226.3	8148.2	6935.0	3605.0
57.5°	1838.2	1868.2	2221.1	2925.3	4581.7	7348.7	8938.8	9015.4	8298.8	6856.3	3625.6
60°	816.2	824.4	1007.0	1456.2	2682.3	5616.1	8082.8	8212.0	8169.6	6751.0	3660.2
62.5°	452.6	445.8	445.8	605.3	1165.7	3476.7	6591.0	6804.5	7618.2	6626.5	3661.9
65°	354.6	348.2	329.8	332.4	444.1	1543.1	4564.1	4943.6	6570.9	6261.6	3538.7
67.5°	300.7	295.2	276.8	269.5	275.9	509.1	2507.7	2901.7	4986.0	5313.2	3065.2
70°	254.1	250.3	240.8	231.9	215.6	251.5	959.5	1227.3	3072.4	3534.4	2092.3
72.5°	204.5	202.8	206.2	198.5	178.8	167.7	328.1	397.4	1380.1	1577.3	862.0
75°	176.3	175.4	177.1	169.4	147.2	116.8	166.8	182.2	389.3	385.9	174.5
77.5°	114.6	115.9	146.7	143.3	126.6	77.9	86.4	93.3	118.1	88.6	53.0
80°	73.2	72.3	74.4	118.9	113.8	59.5	43.2	45.3	56.9	43.6	25.7
82.5°	44.5	43.6	48.8	55.6	57.3	41.5	26.5	27.0	35.5	28.2	13.7
85°	3.9	5.1	29.5	27.4	19.7	12.8	12.8	13.7	18.8	16.7	7.7
87.5°	0.0	0.0	5.1	7.7	4.3	4.7	4.7	5.1	7.3	7.3	3.9
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°	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5	2218.5
2.5°	2220.3	2175.8	2085.9	1999.5	1926.4	1855.8	1775.4	1695.8	1658.6	1643.6	1628.2
5°	2224.1	2132.6	1947.3	1760.8	1567.4	1393.3	1244.9	1092.6	1016.4	983.1	967.7
7.5°	2229.2	2089.8	1790.3	1477.2	1165.7	929.6	723.4	590.8	533.5	524.5	502.2
10°	2230.1	2038.0	1608.1	1164.0	781.6	560.4	431.2	362.8	337.5	333.3	326.0
12.5°	2231.8	1976.8	1405.7	862.0	521.1	374.7	311.9	289.2	282.3	281.9	281.9
15°	2236.9	1912.7	1195.7	621.2	374.3	296.9	273.8	264.8	262.2	263.5	263.1
17.5°	2236.9	1837.0	989.5	462.9	302.5	266.9	254.1	248.1	247.3	248.5	249.0
20°	2220.7	1745.0	800.4	360.2	268.2	247.7	236.1	230.6	228.4	229.3	229.7
22.5°	2181.8	1632.0	646.4	298.2	245.6	230.2	217.7	209.2	205.8	206.2	206.2
25°	2121.0	1498.1	505.7	258.0	227.2	211.3	196.8	186.9	184.8	184.4	185.2
27.5°	2043.2	1350.1	402.6	227.2	205.3	190.4	175.8	167.7	166.0	166.4	166.8
30°	1966.6	1196.5	317.4	201.1	181.0	166.8	155.7	151.9	151.9	153.2	153.6
32.5°	1896.4	1049.0	251.1	178.4	159.1	146.3	139.9	139.5	141.6	142.5	142.9
35°	1836.1	912.5	207.9	160.9	142.0	130.9	128.8	130.5	133.0	134.8	135.2
37.5°	1793.3	790.6	181.8	146.3	128.8	119.8	119.4	122.8	126.2	130.0	130.9
40°	1775.4	687.5	163.8	133.5	118.1	111.2	109.9	114.6	121.1	126.6	127.5
42.5°	1760.4	603.2	148.4	121.1	109.5	99.7	99.2	105.2	112.9	118.5	119.8
45°	1747.5	535.6	134.3	107.8	98.4	85.6	86.8	94.5	100.5	106.5	107.8
47.5°	1721.0	480.0	118.9	93.7	81.3	73.2	75.7	82.6	87.3	96.3	97.5
50°	1673.5	434.6	103.1	76.6	66.3	63.3	67.2	71.9	77.9	85.6	86.4
52.5°	1641.5	400.4	89.4	64.2	54.8	55.6	59.5	61.2	64.6	67.6	66.7
55°	1623.1	381.6	78.3	55.6	46.6	49.2	50.1	47.9	46.2	43.2	41.9
57.5°	1620.9	364.5	69.7	48.3	41.1	42.4	39.4	32.1	26.1	22.7	21.8
60°	1617.5	343.5	62.9	40.6	36.4	34.7	28.2	17.5	12.4	11.6	11.6
62.5°	1580.3	311.0	57.8	34.2	30.8	26.1	16.3	8.1	6.8	7.3	7.3
65°	1461.8	265.7	52.6	27.8	24.4	18.8	8.1	4.7	2.6	3.0	3.0
67.5°	1242.7	211.8	47.1	21.4	18.4	12.0	4.7	2.1	0.0	0.0	0.0
70°	832.1	131.3	39.8	15.0	12.0	7.3	3.4	0.4	0.0	0.0	0.0
72.5°	319.1	71.0	32.1	9.0	7.7	5.1	2.1	0.0	0.0	0.0	0.0
75°	71.9	46.6	22.2	6.4	5.6	3.4	0.9	0.0	0.0	0.0	0.0
77.5°	27.4	33.8	12.8	4.3	3.9	2.1	0.0	0.0	0.0	0.0	0.0
80°	13.3	20.1	6.0	2.6	2.1	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	6.8	7.7	2.6	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	3.9	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.3	0.4	0.4	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)