

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: P324806

Luminaire Tested: **GAN-SA2C-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324806
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-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 11847 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

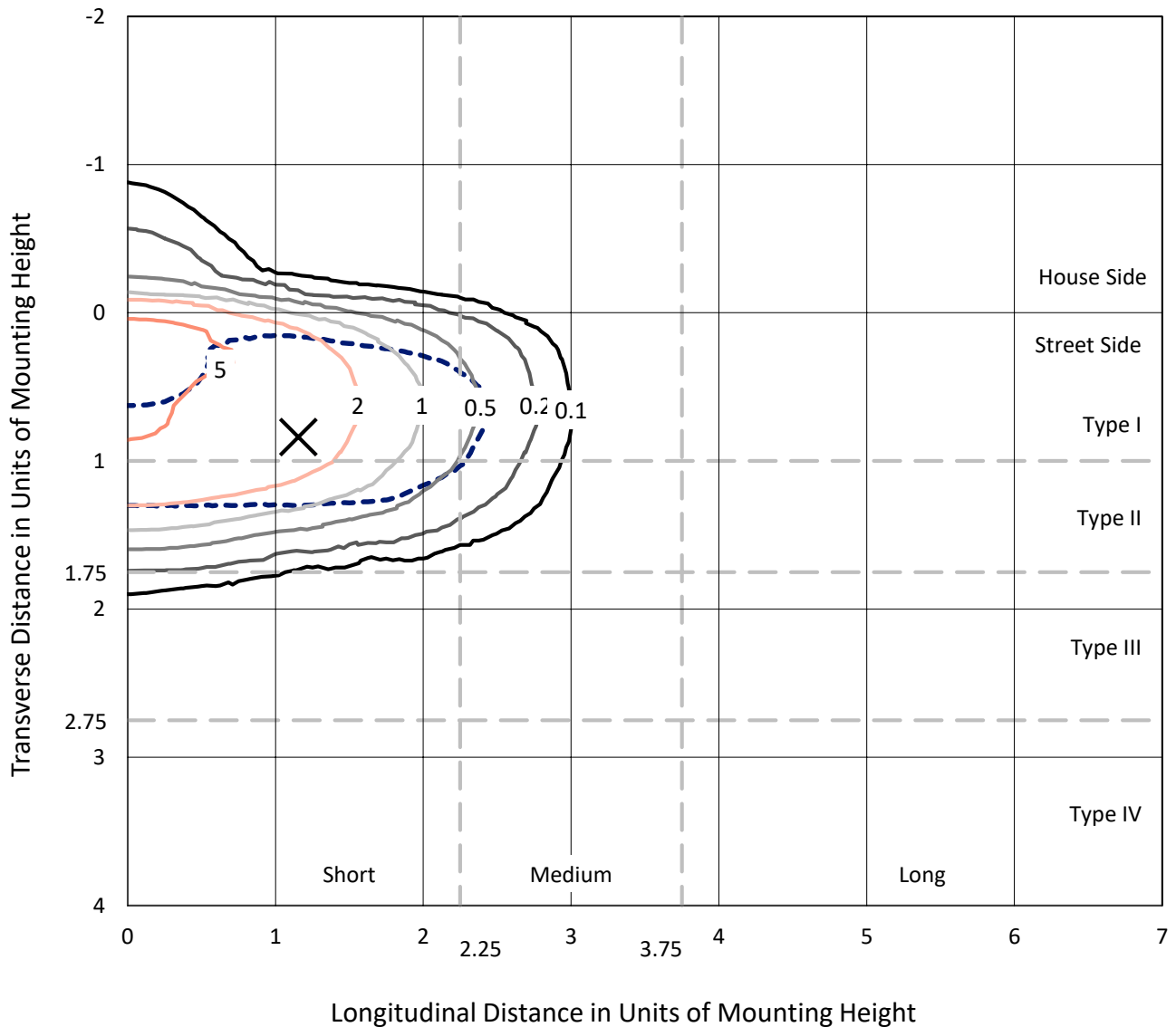
Input Watts (W): 113
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

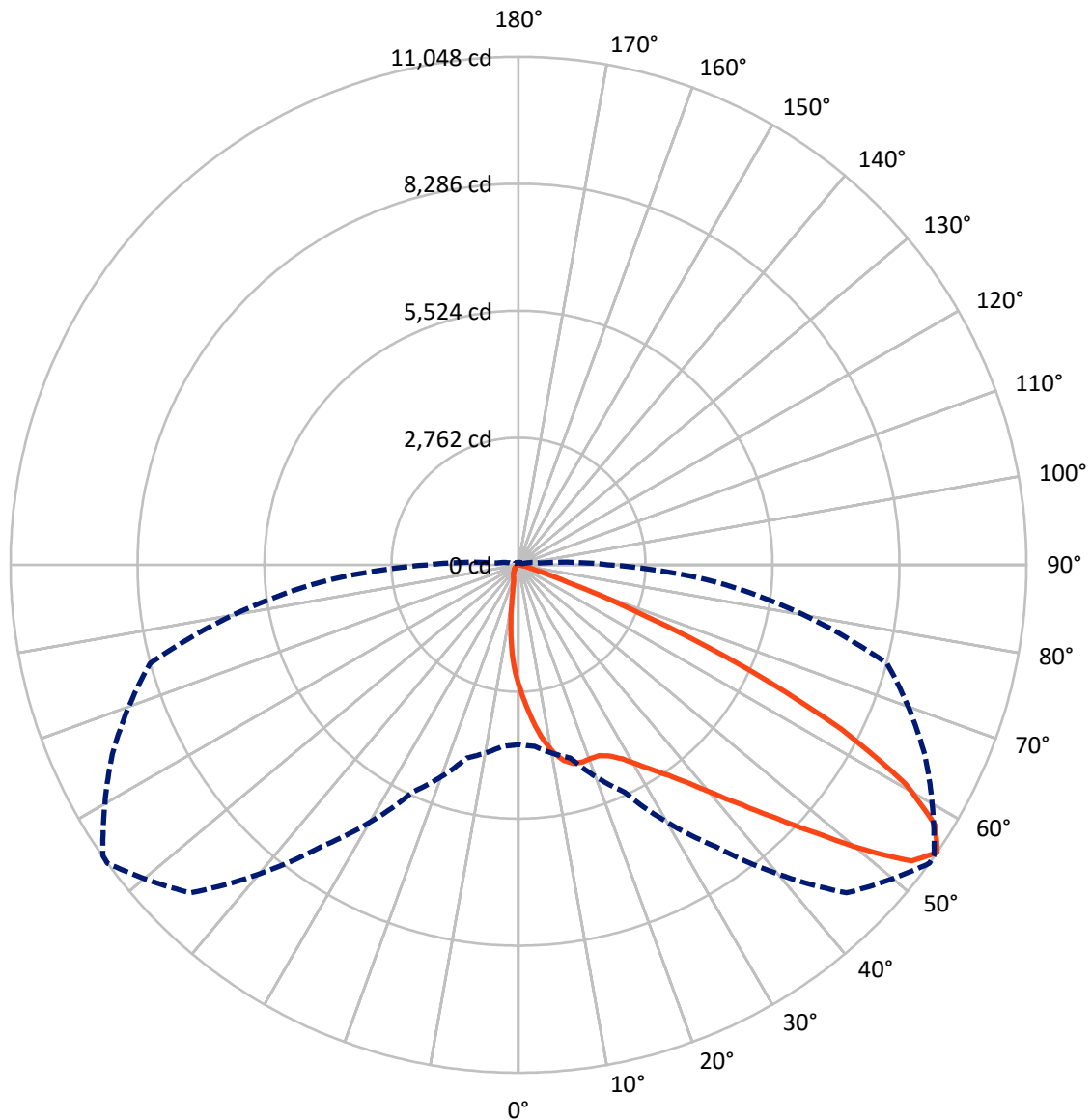
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	591.1	0.0	591.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11255.9	0.0	11255.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	11847.0	0.0	11847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	2.1
10°-20°	670.1	5.7
20°-30°	1144.1	9.7
30°-40°	1836.0	15.5
40°-50°	2934.0	24.8
50°-60°	3143.9	26.5
60°-70°	1614.2	13.6
70°-80°	244.5	2.1
80°-90°	15.9	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°	11847.0	100.0
0°-180°	11847.0	100.0

Coefficient of Utilization

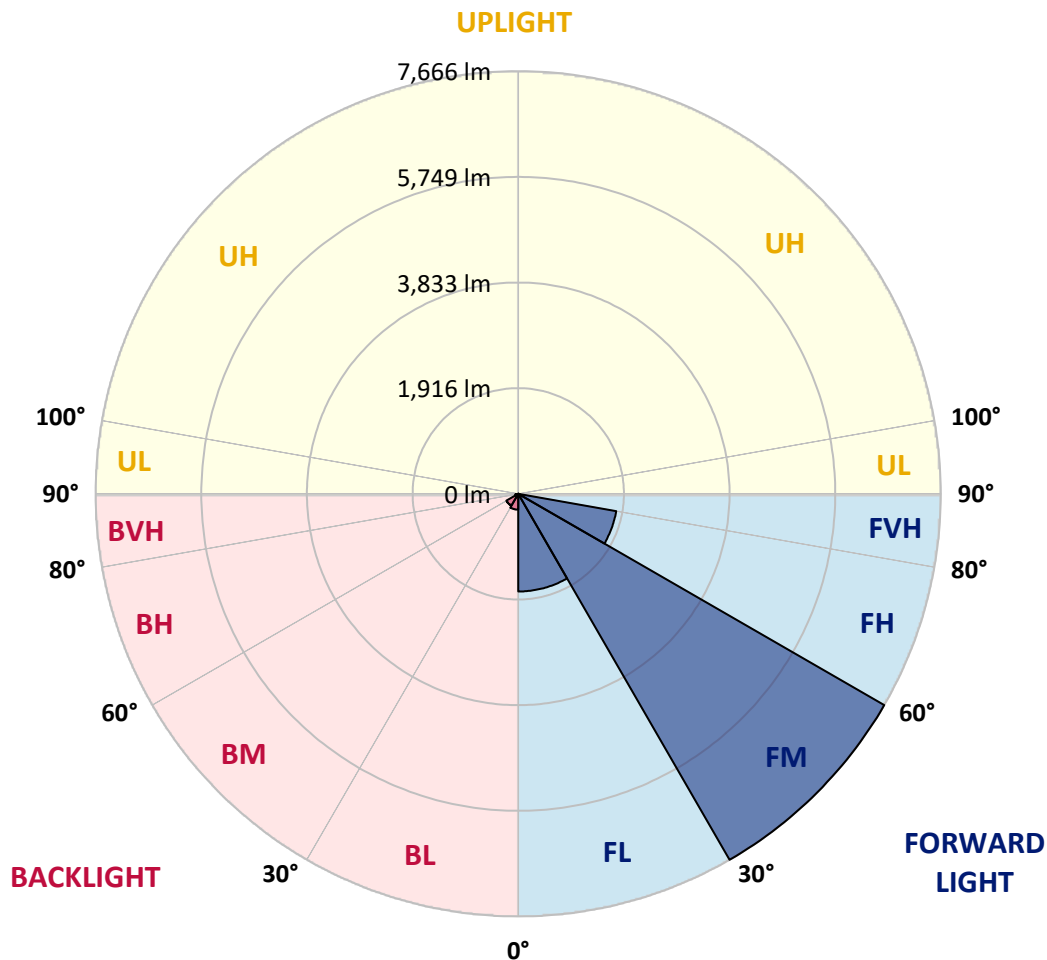


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.9	14.9			
FM (30°-60°)	7665.5	64.7			
FH (60°-80°)	1804.2	15.2			G2/5000
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	287.6	2.4	B1/500		
BM (30°-60°)	248.4	2.1	B1/1000		
BH (60°-80°)	54.5	0.5	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3
2.5°	3329.6	3280.0	3281.5	3259.0	3176.6	3112.2	3045.2	3029.3	2924.9	2815.4	2710.0
5°	3905.2	3868.9	3860.2	3816.7	3702.1	3580.8	3450.9	3420.7	3216.5	2992.5	2771.9
7.5°	4200.9	4201.4	4194.2	4178.4	4106.8	3989.1	3830.5	3798.8	3521.0	3184.8	2836.4
10°	4114.9	4134.4	4174.3	4227.0	4281.7	4266.9	4147.7	4119.0	3817.2	3388.4	2908.0
12.5°	3914.4	3916.9	3961.5	4047.9	4205.5	4367.2	4369.2	4359.5	4100.1	3601.3	2986.8
15°	3814.6	3824.3	3840.7	3896.5	4045.9	4304.8	4490.0	4503.8	4359.5	3827.4	3070.7
17.5°	3880.1	3893.9	3880.1	3886.8	3973.2	4206.0	4510.9	4546.2	4586.1	4051.0	3150.0
20°	4057.6	4070.4	4045.9	4018.8	4035.6	4177.4	4496.1	4543.7	4763.7	4249.5	3216.5
22.5°	4297.1	4302.2	4264.9	4220.3	4208.1	4274.6	4508.4	4557.5	4905.9	4429.1	3258.5
25°	4560.6	4565.2	4518.6	4467.5	4438.3	4465.4	4609.2	4646.0	5031.3	4600.5	3282.5
27.5°	4847.6	4851.7	4793.4	4730.4	4696.7	4697.7	4775.4	4814.8	5164.8	4795.9	3302.0
30°	5151.0	5148.9	5095.2	5007.7	4964.7	4963.7	5014.9	5054.8	5358.2	5046.6	3328.6
32.5°	5491.7	5487.6	5411.4	5302.9	5254.3	5261.5	5307.0	5330.0	5598.1	5313.7	3376.2
35°	5940.4	5928.6	5813.5	5679.0	5589.4	5586.9	5625.2	5643.7	5904.1	5637.0	3455.5
37.5°	6522.6	6511.9	6355.8	6160.4	6034.5	5987.5	6033.0	6056.5	6340.5	6051.9	3582.9
40°	7096.7	7085.9	6993.3	6814.2	6620.3	6507.3	6543.1	6568.2	6885.4	6555.4	3743.5
42.5°	7492.7	7501.9	7534.1	7548.9	7367.3	7129.9	7146.3	7172.4	7457.9	7093.6	3927.2
45°	7597.0	7617.0	7799.1	8156.7	8224.8	8039.6	7868.2	7882.5	8039.6	7631.8	4110.9
47.5°	7283.4	7320.2	7671.7	8336.8	8912.9	9043.9	8719.5	8700.6	8597.7	8067.2	4241.3
50°	6570.7	6604.5	7059.8	8043.7	9121.6	10002.6	9739.7	9683.9	9087.4	8327.6	4287.4
52.5°	5539.3	5580.2	5950.1	7120.7	8728.2	10430.4	10705.6	10659.1	9446.5	8348.1	4295.0
55°	3911.8	3961.5	4352.8	5457.4	7481.4	10090.1	11047.9	11034.1	9744.8	8293.8	4311.4
57.5°	2198.4	2234.2	2656.3	3498.4	5479.4	8788.6	10690.3	10781.8	9924.9	8199.7	4336.0
60°	976.2	985.9	1204.3	1741.5	3207.8	6716.5	9666.5	9821.0	9770.4	8073.8	4377.4
62.5°	541.3	533.1	533.1	723.9	1394.2	4157.9	7882.5	8137.8	9110.9	7925.0	4379.5
65°	424.1	416.5	394.5	397.5	531.1	1845.4	5458.5	5912.3	7858.5	7488.6	4232.1
67.5°	359.7	353.0	331.0	322.3	330.0	608.8	2999.1	3470.3	5962.9	6354.3	3665.7
70°	303.9	299.3	288.0	277.3	257.9	300.8	1147.6	1467.8	3674.4	4227.0	2502.3
72.5°	244.6	242.5	246.6	237.4	213.9	200.6	392.4	475.3	1650.5	1886.3	1030.9
75°	210.8	209.8	211.8	202.6	176.0	139.7	199.5	217.9	465.6	461.5	208.7
77.5°	137.1	138.6	175.5	171.4	151.4	93.1	103.3	111.5	141.2	105.9	63.4
80°	87.5	86.5	89.0	142.2	136.1	71.1	51.7	54.2	68.0	52.2	30.7
82.5°	53.2	52.2	58.3	66.5	68.6	49.6	31.7	32.2	42.5	33.8	16.4
85°	4.6	6.1	35.3	32.7	23.5	15.3	15.3	16.4	22.5	20.0	9.2
87.5°	0.0	0.0	6.1	9.2	5.1	5.6	5.6	6.1	8.7	8.7	4.6
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°	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3	2653.3
2.5°	2655.3	2602.1	2494.7	2391.3	2303.8	2219.4	2123.2	2028.1	1983.5	1965.6	1947.2
5°	2659.9	2550.4	2328.9	2105.8	1874.6	1666.3	1488.8	1306.7	1215.6	1175.7	1157.3
7.5°	2666.0	2499.3	2141.1	1766.6	1394.2	1111.7	865.1	706.5	638.0	627.2	600.6
10°	2667.1	2437.3	1923.2	1392.1	934.7	670.2	515.7	433.9	403.7	398.6	389.9
12.5°	2669.1	2364.2	1681.2	1030.9	623.2	448.2	373.0	345.9	337.7	337.2	337.2
15°	2675.3	2287.4	1430.0	742.9	447.7	355.1	327.4	316.7	313.6	315.2	314.6
17.5°	2675.3	2196.9	1183.4	553.6	361.7	319.2	303.9	296.7	295.7	297.3	297.8
20°	2655.8	2086.9	957.2	430.8	320.8	296.2	282.4	275.8	273.2	274.2	274.7
22.5°	2609.3	1951.8	773.1	356.6	293.7	275.3	260.4	250.2	246.1	246.6	246.6
25°	2536.6	1791.7	604.7	308.5	271.7	252.7	235.3	223.6	221.0	220.5	221.5
27.5°	2443.5	1614.7	481.4	271.7	245.6	227.7	210.3	200.6	198.5	199.0	199.5
30°	2351.9	1431.0	379.6	240.5	216.4	199.5	186.2	181.6	181.6	183.2	183.7
32.5°	2268.0	1254.5	300.3	213.3	190.3	175.0	167.3	166.8	169.3	170.4	170.9
35°	2195.9	1091.3	248.6	192.4	169.9	156.6	154.0	156.0	159.1	161.2	161.7
37.5°	2144.7	945.5	217.4	175.0	154.0	143.3	142.7	146.8	150.9	155.5	156.6
40°	2123.2	822.2	195.9	159.6	141.2	133.0	131.5	137.1	144.8	151.4	152.5
42.5°	2105.3	721.4	177.5	144.8	131.0	119.2	118.7	125.9	135.1	141.7	143.3
45°	2090.0	640.5	160.6	128.9	117.7	102.3	103.9	113.1	120.2	127.4	128.9
47.5°	2058.2	574.0	142.2	112.0	97.2	87.5	90.6	98.7	104.4	115.1	116.6
50°	2001.5	519.8	123.3	91.6	79.3	75.7	80.3	86.0	93.1	102.3	103.3
52.5°	1963.1	478.9	106.9	76.7	65.5	66.5	71.1	73.2	77.3	80.8	79.8
55°	1941.1	456.4	93.6	66.5	55.8	58.8	59.9	57.3	55.3	51.7	50.1
57.5°	1938.5	435.9	83.4	57.8	49.1	50.7	47.1	38.4	31.2	27.1	26.1
60°	1934.4	410.8	75.2	48.6	43.5	41.4	33.8	21.0	14.8	13.8	13.8
62.5°	1889.9	371.9	69.1	40.9	36.8	31.2	19.4	9.7	8.2	8.7	8.7
65°	1748.2	317.7	62.9	33.3	29.2	22.5	9.7	5.6	3.1	3.6	3.6
67.5°	1486.3	253.3	56.3	25.6	22.0	14.3	5.6	2.6	0.0	0.0	0.0
70°	995.1	157.1	47.6	17.9	14.3	8.7	4.1	0.5	0.0	0.0	0.0
72.5°	381.7	84.9	38.4	10.7	9.2	6.1	2.6	0.0	0.0	0.0	0.0
75°	86.0	55.8	26.6	7.7	6.7	4.1	1.0	0.0	0.0	0.0	0.0
77.5°	32.7	40.4	15.3	5.1	4.6	2.6	0.0	0.0	0.0	0.0	0.0
80°	15.9	24.0	7.2	3.1	2.6	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.2	9.2	3.1	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	4.6	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.5	0.5	0.5	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)