

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: P323616

Luminaire Tested: **GAN-SA2D-760-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-760-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13563 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

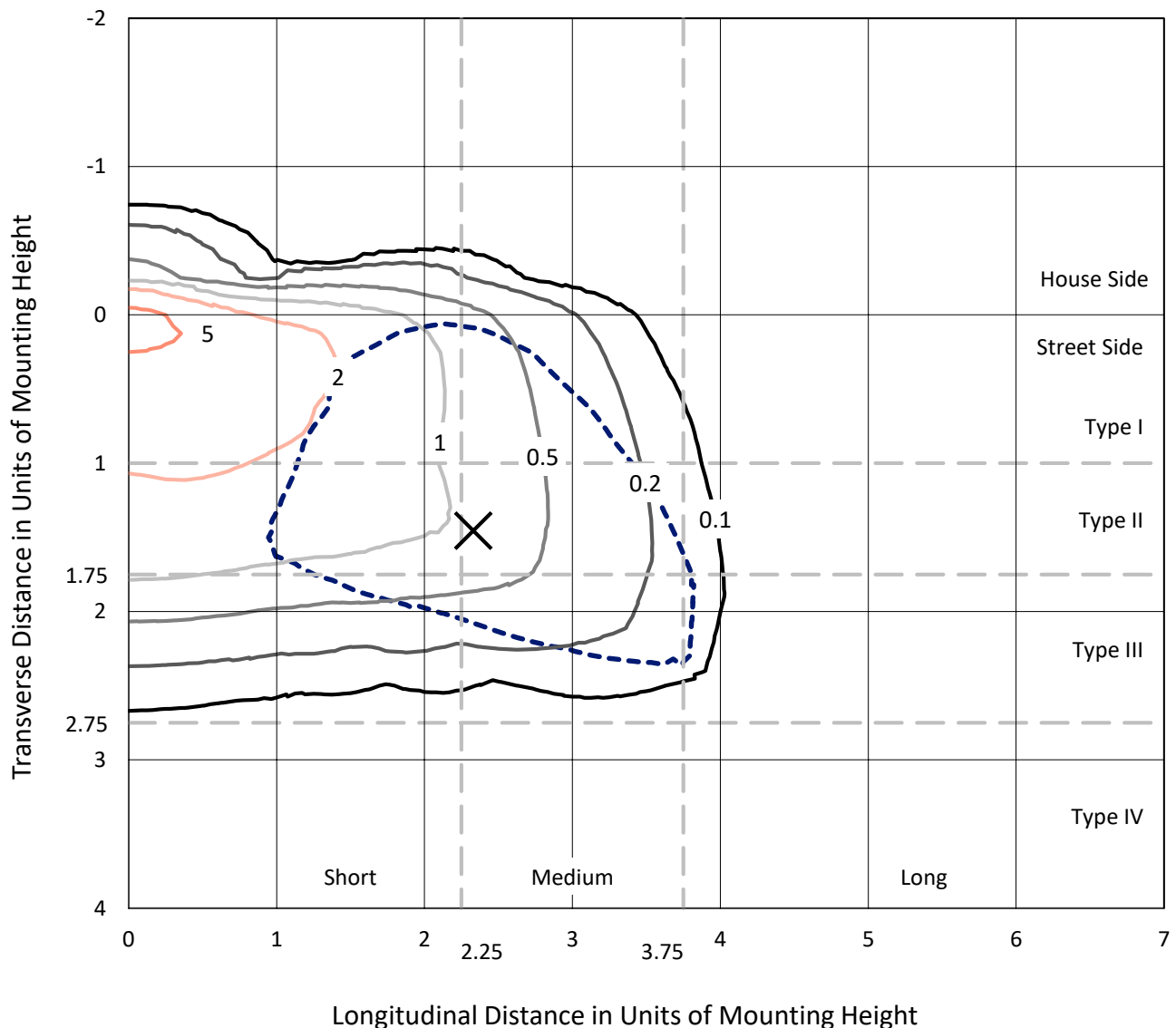
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

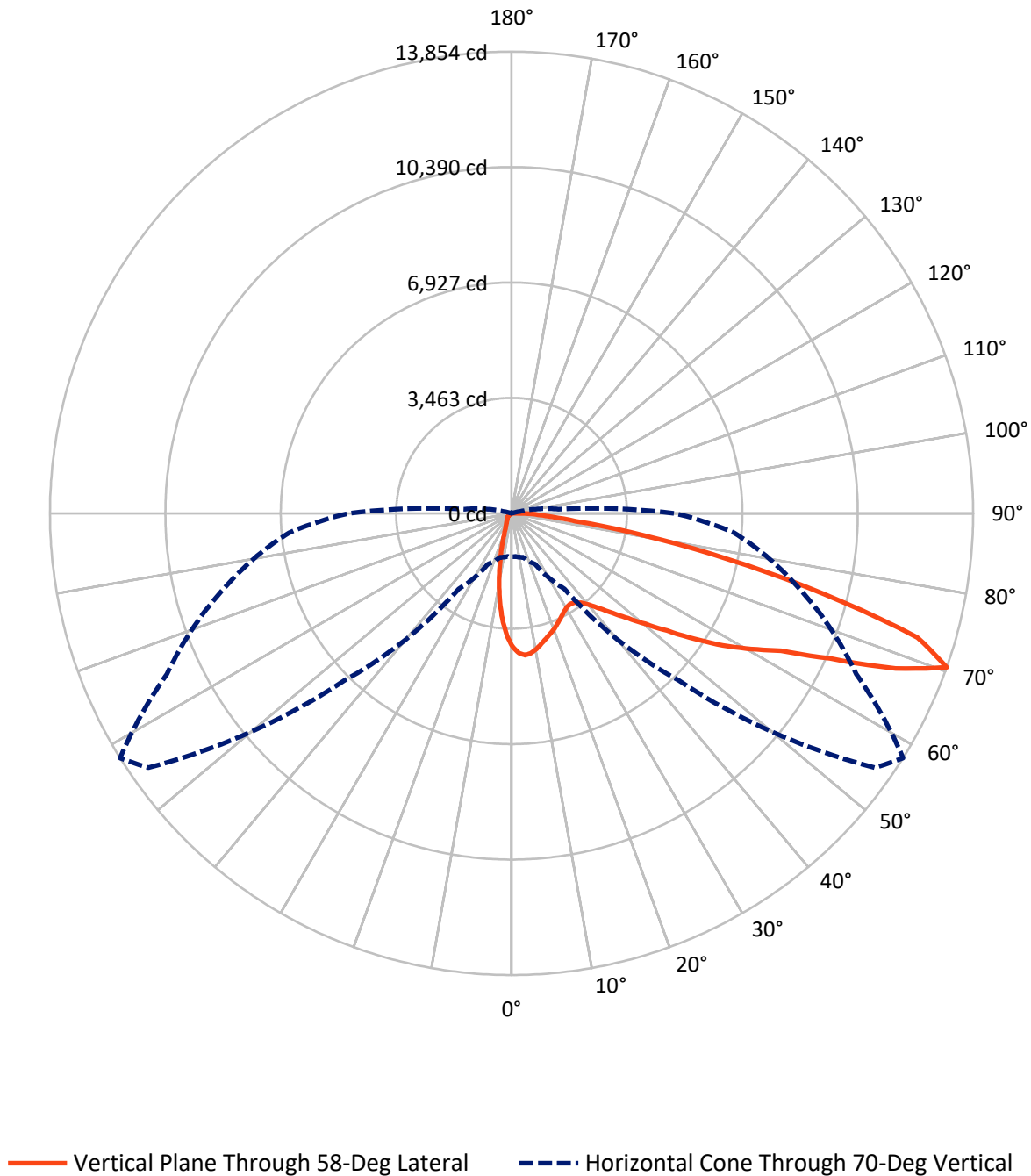
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1160.7	0.0	1160.7
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	12402.3	0.0	12402.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	13563.0	0.0	13563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	2.4
10°-20°	687.6	5.1
20°-30°	904.0	6.7
30°-40°	1197.2	8.8
40°-50°	1789.4	13.2
50°-60°	2866.6	21.1
60°-70°	3613.4	26.6
70°-80°	1949.0	14.4
80°-90°	228.1	1.7
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°	13563.0	100.0
0°-180°	13563.0	100.0

Coefficient of Utilization



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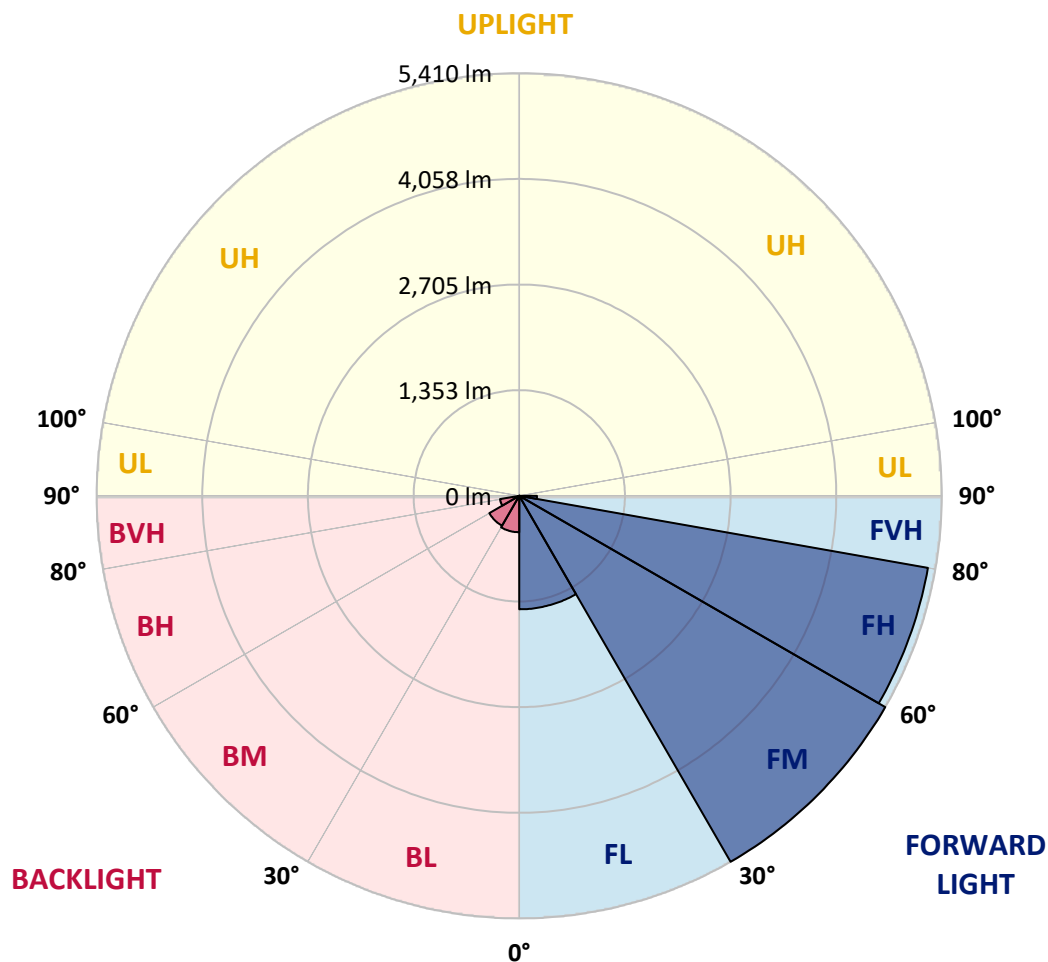
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1452.9	10.7			
FM	(30°-60°)	5410.5	39.9			
FH	(60°-80°)	5312.8	39.2			G3/7500
FVH	(80°-90°)	226.2	1.7			G3/500
BL	(0°-30°)	466.3	3.4	B1/500		
BM	(30°-60°)	442.8	3.3	B1/1000		
BH	(60°-80°)	249.6	1.8	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4
2.5°	4338.6	4327.9	4324.0	4317.2	4291.3	4265.9	4215.7	4201.6	4170.0	4095.0	4015.5
5°	4342.0	4341.4	4353.3	4350.5	4341.4	4329.6	4293.5	4274.9	4221.3	4114.2	3968.7
7.5°	4132.8	4143.5	4170.0	4191.4	4216.2	4248.4	4252.9	4234.9	4190.9	4075.3	3882.4
10°	3851.9	3868.8	3906.1	3948.4	4013.2	4077.5	4135.0	4132.8	4117.5	4003.6	3778.6
12.5°	3570.5	3590.2	3633.1	3695.7	3787.6	3892.5	3995.2	4009.3	4034.6	3939.3	3682.7
15°	3324.0	3341.0	3383.3	3460.0	3573.9	3714.9	3865.5	3891.4	3956.8	3889.1	3602.6
17.5°	3114.8	3125.5	3156.5	3241.7	3373.7	3544.6	3740.3	3791.0	3888.6	3849.7	3533.3
20°	2968.7	2970.4	2990.7	3050.5	3182.5	3373.7	3610.5	3683.3	3816.4	3815.8	3461.7
22.5°	2896.6	2890.9	2894.9	2929.3	3026.3	3210.7	3480.8	3567.1	3751.5	3787.1	3388.9
25°	2883.0	2878.5	2867.2	2871.7	2930.4	3068.0	3350.0	3449.8	3694.6	3769.6	3325.7
27.5°	2925.3	2929.8	2910.7	2890.3	2894.9	2975.5	3233.8	3349.4	3648.3	3769.6	3281.2
30°	3010.5	3012.7	2998.6	2972.1	2936.6	2949.6	3153.2	3268.8	3625.2	3795.5	3253.0
32.5°	3104.7	3117.1	3115.4	3093.9	3043.2	2990.7	3134.0	3239.4	3623.5	3853.0	3250.2
35°	3221.4	3235.5	3259.2	3254.7	3201.7	3115.4	3199.4	3282.3	3656.8	3947.8	3280.6
37.5°	3345.5	3366.9	3417.7	3441.9	3407.5	3309.9	3346.0	3405.3	3745.9	4101.2	3357.9
40°	3465.6	3489.8	3582.3	3677.7	3651.7	3551.3	3568.2	3615.6	3904.4	4321.7	3504.5
42.5°	3583.5	3619.6	3755.5	3912.3	3943.3	3863.2	3872.2	3910.0	4139.5	4625.1	3744.2
45°	3724.5	3765.1	3966.4	4159.8	4242.7	4207.8	4246.1	4270.9	4446.9	5026.1	4067.4
47.5°	3931.4	3978.2	4225.3	4445.8	4591.3	4613.8	4691.1	4707.5	4835.5	5493.1	4488.6
50°	4335.2	4348.2	4571.5	4771.8	4981.6	5116.9	5204.9	5217.3	5305.8	6003.5	5014.8
52.5°	4843.4	4851.8	4978.2	5112.4	5351.0	5627.3	5833.1	5850.6	5869.2	6500.9	5534.2
55°	5348.1	5347.0	5430.5	5509.4	5782.4	6183.9	6630.6	6641.3	6507.7	6972.9	5931.3
57.5°	5663.4	5693.8	5820.7	5922.3	6303.5	6818.4	7438.2	7477.7	7178.2	7322.6	6323.8
60°	5563.0	5577.7	5859.1	6234.7	6952.6	7720.2	8255.4	8265.6	7682.4	7671.7	6820.1
62.5°	4739.6	4747.5	5189.7	5964.0	7281.4	8889.9	9241.2	9076.0	8262.2	8156.1	7414.0
65°	3248.5	3299.8	3669.2	4626.2	6677.4	9623.6	10767.3	10493.8	9145.9	8854.3	7950.9
67.5°	1913.0	1902.3	2085.0	2790.0	4904.3	9136.3	12697.8	12426.0	10351.1	9321.9	7793.5
70°	1306.7	1299.4	1369.3	1689.1	2768.5	7087.4	13305.2	13853.9	11415.3	9007.2	6707.3
72.5°	932.8	936.8	1040.0	1312.4	1738.2	4129.4	11441.8	12740.7	11082.0	7852.2	5098.3
75°	633.3	644.1	791.8	1076.6	1523.8	2100.8	8119.5	9685.1	9024.1	5706.8	2930.4
77.5°	340.6	352.5	526.7	867.4	1377.8	1459.6	5222.9	6665.6	5668.5	2565.5	849.3
80°	142.1	148.9	246.5	630.5	1190.5	1281.9	3073.1	4042.0	2415.5	505.9	189.5
82.5°	61.5	64.9	102.6	376.2	889.9	1082.3	1627.1	1944.6	732.0	111.1	95.3
85°	11.8	12.4	42.3	199.1	567.9	610.8	1054.6	1033.8	328.8	47.9	69.4
87.5°	0.0	0.0	10.2	62.6	166.9	332.7	643.5	635.6	111.7	23.1	25.9
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°	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4
2.5°	3974.9	3935.9	3854.2	3753.2	3676.0	3590.8	3523.1	3437.4	3400.2	3401.9	3381.6
5°	3885.8	3805.7	3624.6	3396.2	3220.3	3038.7	2882.5	2726.8	2634.9	2605.0	2576.8
7.5°	3758.3	3631.4	3342.7	2990.7	2693.0	2402.0	2148.7	1926.0	1785.0	1716.2	1690.8
10°	3614.5	3436.3	3018.4	2554.8	2129.6	1735.9	1407.7	1122.3	1008.4	931.1	911.4
12.5°	3488.2	3246.8	2701.4	2107.6	1602.8	1127.9	814.9	637.3	560.0	529.6	524.5
15°	3369.2	3069.7	2396.3	1702.6	1109.9	694.2	518.3	457.9	439.9	434.8	434.8
17.5°	3256.9	2901.1	2098.0	1303.9	734.3	486.7	429.2	415.6	410.0	409.4	410.0
20°	3139.6	2732.4	1804.7	955.4	512.6	412.3	396.5	389.1	387.4	387.4	387.4
22.5°	3027.4	2563.8	1519.3	682.4	411.1	376.2	368.3	363.2	361.5	360.9	359.8
25°	2919.7	2403.6	1240.7	482.2	360.9	344.6	337.8	331.1	326.0	323.2	321.5
27.5°	2831.1	2261.0	981.3	386.9	326.0	311.9	303.4	293.3	280.9	275.2	273.0
30°	2760.6	2130.7	756.3	326.5	293.3	279.2	266.2	248.7	230.7	221.1	220.5
32.5°	2705.4	2002.7	574.1	288.8	263.9	246.5	227.8	205.8	185.0	174.3	173.7
35°	2678.3	1889.9	438.8	261.1	238.0	216.0	192.9	168.6	148.3	138.2	137.0
37.5°	2696.3	1794.6	342.3	238.0	216.0	190.6	163.6	138.2	120.1	111.1	110.5
40°	2762.3	1733.6	278.0	218.3	197.4	166.4	137.0	113.4	98.1	90.8	90.2
42.5°	2902.8	1711.1	237.4	201.9	179.3	143.8	113.9	93.6	79.5	74.4	73.3
45°	3137.4	1744.4	209.8	186.1	160.7	122.4	94.2	76.7	64.3	60.3	59.8
47.5°	3449.8	1831.8	190.1	170.9	143.8	103.2	78.4	62.0	52.4	48.5	47.9
50°	3852.5	1970.5	173.7	155.7	128.0	87.4	64.9	49.1	40.6	37.8	37.8
52.5°	4290.7	2135.8	159.0	141.6	112.2	72.8	52.4	37.8	32.1	28.8	28.8
55°	4652.8	2280.1	143.2	130.8	93.1	60.3	40.0	28.8	23.7	22.0	22.0
57.5°	5014.3	2434.1	125.2	112.2	74.4	49.1	30.5	21.4	17.5	16.4	16.4
60°	5482.9	2622.5	107.7	91.4	58.7	37.2	22.6	15.2	13.0	12.4	12.4
62.5°	5998.4	2733.0	91.9	73.3	45.7	27.6	16.4	10.2	9.6	9.6	9.0
65°	6313.6	2576.8	77.3	58.7	35.5	20.9	10.7	7.3	8.5	7.9	6.8
67.5°	5911.5	2017.3	63.2	45.7	27.6	15.8	6.8	5.1	9.0	7.3	5.6
70°	4894.7	1412.2	49.1	32.1	22.0	13.5	4.5	3.4	9.6	7.3	4.5
72.5°	3663.0	945.2	38.9	21.4	16.4	11.8	3.9	1.7	8.5	6.2	3.9
75°	2001.5	380.7	31.0	13.5	10.2	8.5	2.8	1.1	5.6	4.5	2.8
77.5°	526.7	100.4	22.6	9.0	5.6	3.4	1.7	0.6	2.8	2.3	1.1
80°	134.2	38.9	14.7	6.2	3.9	1.7	0.0	0.0	0.6	0.0	0.0
82.5°	71.6	16.4	9.0	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.1	10.7	5.1	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.9	3.4	1.7	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)