

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: P322849

Luminaire Tested: **GAN-SA5C-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322849
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-SA5C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 23333 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

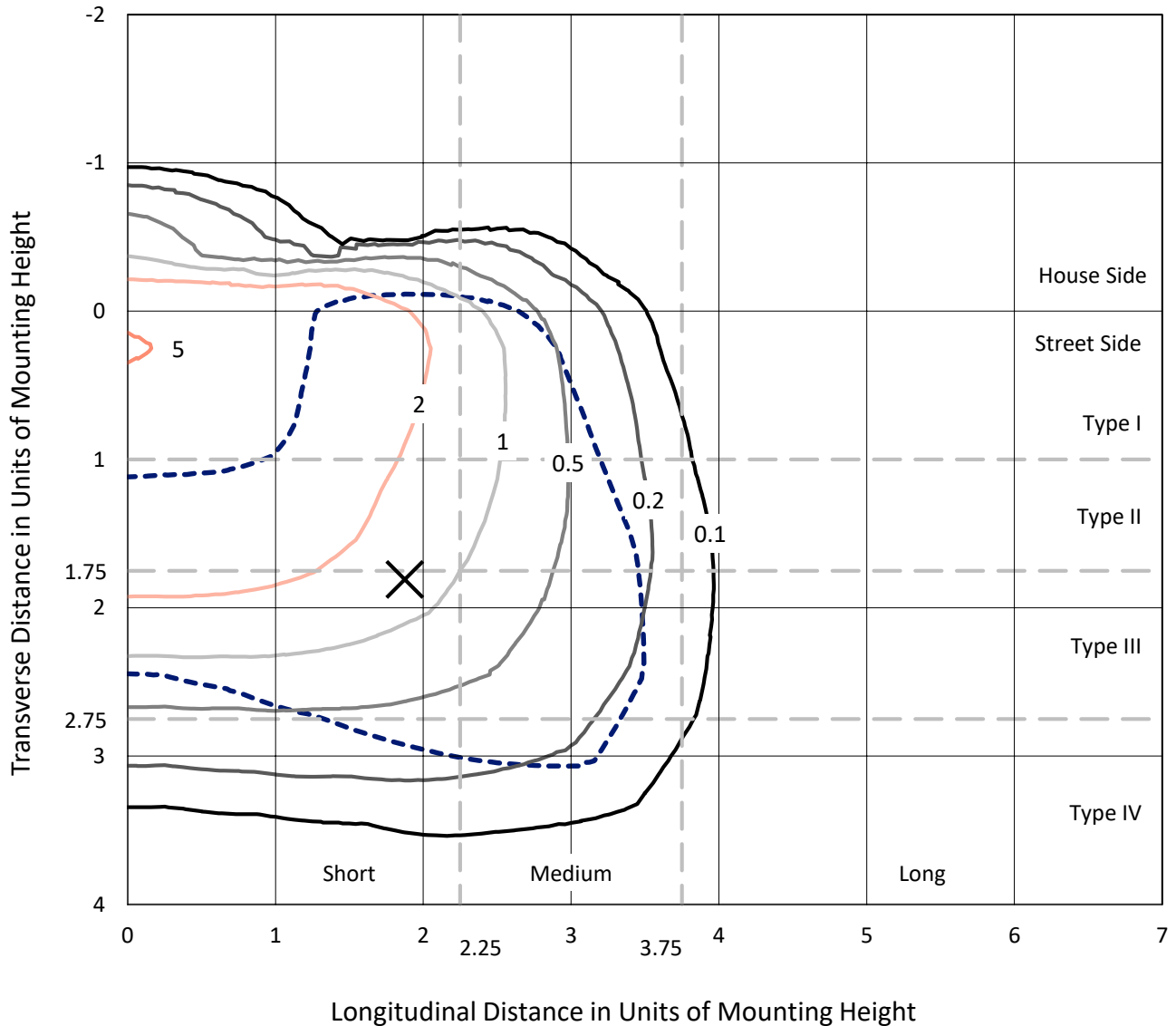
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

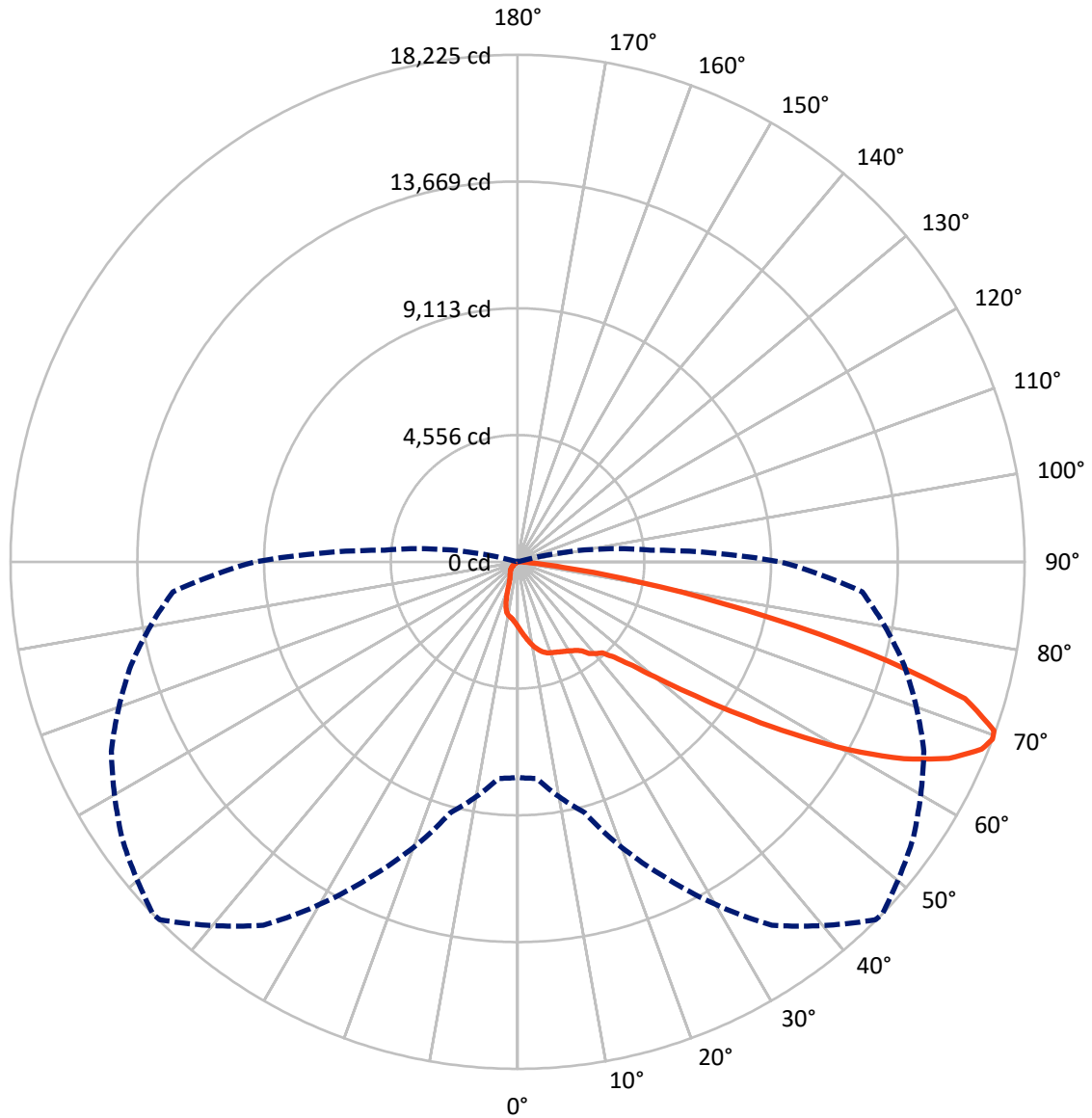
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2394.6	0.0	2394.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	20938.4	0.0	20938.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	23333.0	0.0	23333.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	1.0
10°-20°	706.0	3.0
20°-30°	1110.2	4.8
30°-40°	1592.1	6.8
40°-50°	2751.7	11.8
50°-60°	5436.3	23.3
60°-70°	7597.7	32.6
70°-80°	3670.5	15.7
80°-90°	235.9	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°	23333.0	100.0
0°-180°	23333.0	100.0

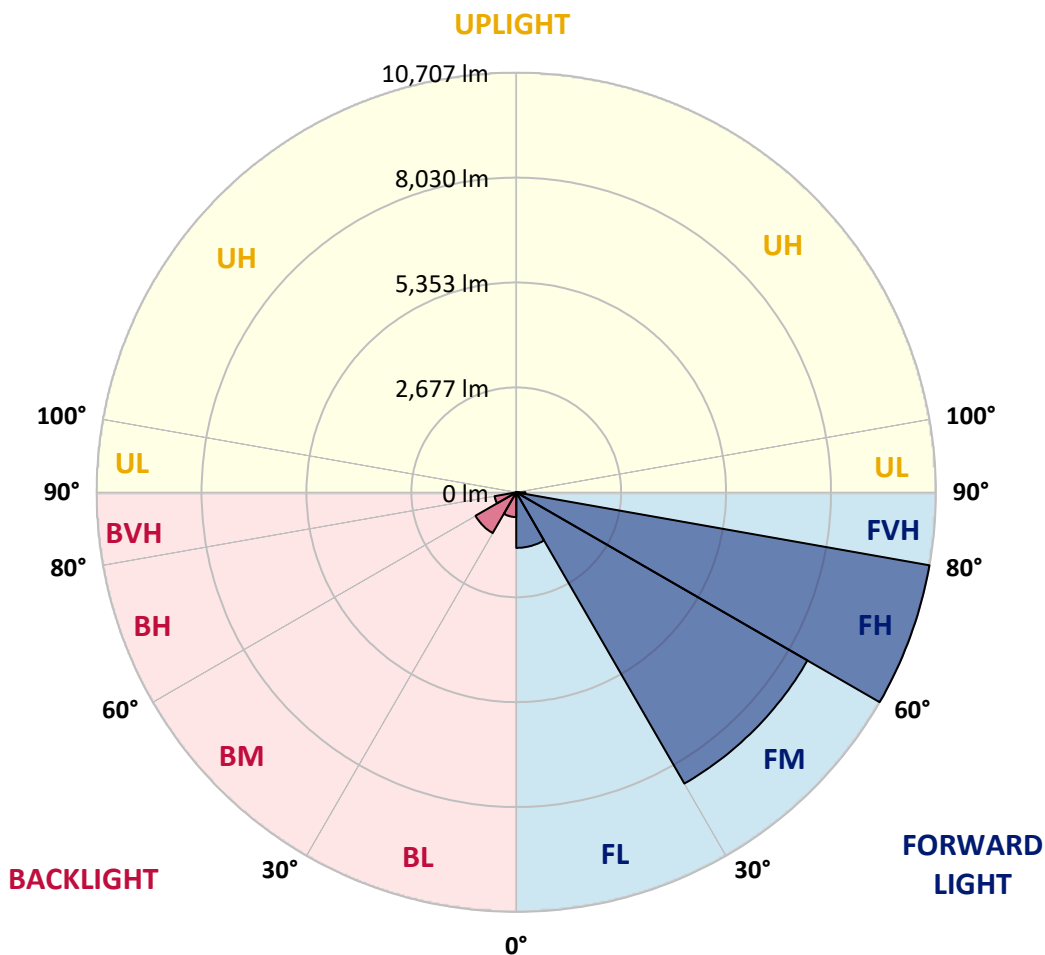


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1417.8	6.1			
FM (30°-60°)	8580.1	36.8			
FH (60°-80°)	10706.7	45.9			G4/12000
FVH (80°-90°)	233.9	1.0			G3/500
BL (0°-30°)	631.1	2.7	B2/1000		
BM (30°-60°)	1200.0	5.1	B2/2500		
BH (60°-80°)	561.5	2.4	B2/1000		G2/1000
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: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9
2.5°	2597.2	2593.9	2578.6	2572.0	2534.8	2512.9	2504.2	2476.8	2437.4	2398.0	2354.3
5°	2892.5	2891.4	2863.0	2835.6	2765.6	2700.0	2688.0	2624.5	2535.9	2452.7	2369.6
7.5°	3194.5	3180.3	3151.8	3099.3	2997.6	2892.5	2882.7	2793.0	2667.2	2546.8	2427.6
10°	3450.5	3441.7	3404.5	3324.7	3205.4	3086.2	3074.1	2963.6	2821.4	2673.7	2521.7
12.5°	3649.6	3643.0	3593.8	3494.2	3367.3	3243.7	3227.3	3128.8	2976.8	2811.6	2632.2
15°	3771.0	3767.7	3707.6	3601.5	3476.7	3369.5	3355.3	3268.9	3127.7	2954.9	2752.5
17.5°	3799.5	3800.6	3738.2	3631.0	3528.2	3451.6	3440.6	3375.0	3256.8	3085.1	2872.8
20°	3736.0	3749.1	3693.3	3600.4	3536.9	3496.4	3487.7	3448.3	3348.7	3186.8	2969.1
22.5°	3646.3	3652.9	3614.6	3552.2	3526.0	3533.6	3529.2	3507.4	3423.1	3274.3	3064.3
25°	3591.6	3591.6	3568.6	3516.1	3533.6	3580.7	3581.8	3577.4	3510.6	3381.6	3180.3
27.5°	3589.4	3582.9	3556.6	3517.2	3565.3	3637.6	3641.9	3671.5	3629.9	3511.7	3324.7
30°	3676.9	3669.3	3613.5	3562.1	3623.3	3701.0	3711.9	3776.5	3755.7	3652.9	3485.5
32.5°	3881.5	3854.2	3730.5	3646.3	3692.3	3785.2	3799.5	3902.3	3935.1	3826.8	3640.8
35°	4161.6	4075.2	3896.8	3806.0	3810.4	3907.8	3920.9	4071.9	4169.2	3986.5	3761.2
37.5°	4547.8	4505.1	4215.2	3972.3	3992.0	4139.7	4178.0	4342.1	4314.7	4074.1	3897.9
40°	5394.5	5327.8	5019.3	4438.4	4166.0	4327.9	4339.9	4427.4	4429.6	4272.1	4182.4
42.5°	6547.6	6520.2	6195.3	5284.0	4508.4	4453.7	4475.6	4623.2	4788.4	4690.0	4685.6
45°	7824.3	7810.1	7465.5	6406.5	5200.9	4866.1	4893.5	5091.5	5407.6	5429.5	5568.5
47.5°	8851.6	8845.0	8647.0	7659.1	6261.0	5565.2	5573.9	5784.0	6339.7	6614.3	6836.4
50°	9788.0	9819.7	9663.3	9014.6	7705.0	6660.3	6639.5	6779.5	7672.2	8121.9	8397.5
52.5°	11089.9	11134.7	10696.0	10279.2	9220.2	8019.0	8002.6	8149.2	9273.8	9610.8	9660.0
55°	12239.7	12163.1	11816.3	11696.0	11068.0	9697.2	9692.8	9821.9	10822.9	10966.3	11057.1
57.5°	12747.3	12717.8	12885.1	13160.8	13003.3	11680.6	11670.8	11572.3	12209.0	12224.4	12503.3
60°	13067.8	13103.9	13617.0	14467.1	14859.8	13815.0	13751.6	13151.0	13532.8	13498.9	13797.5
62.5°	12827.2	12898.3	13821.6	15238.3	16249.2	15678.1	15588.4	14597.3	14664.0	14546.9	14824.8
65°	11549.4	11659.9	13172.9	15092.8	16938.4	17134.2	17043.4	15873.9	15562.2	15369.6	15215.4
67.5°	9377.8	9443.4	11023.2	13827.1	16627.7	18002.9	17984.3	16993.1	16240.4	15230.7	14033.8
69°	7749.9	7814.4	9335.1	12494.6	15944.0	18188.9	18225.0	17351.9	16111.3	14386.1	12434.4
70°	6564.0	6632.9	8049.7	11352.4	15150.8	18102.4	18167.0	17318.0	15741.6	13408.1	11030.8
72.5°	3442.8	3501.9	4955.8	7821.0	12351.3	16622.2	16818.1	15854.3	13343.5	9737.7	6522.4
75°	1082.0	1115.9	1935.3	4088.3	8456.6	12924.5	12969.4	12436.6	9475.1	5356.2	2716.4
77.5°	412.4	402.6	644.4	1506.4	4275.4	8138.3	8412.9	7771.8	4972.2	1893.7	626.9
80°	222.1	223.2	334.8	623.6	1829.2	4182.4	4414.3	3766.6	1766.8	590.8	144.4
82.5°	96.3	100.6	188.2	330.4	840.2	1542.5	1658.5	1380.6	675.0	397.1	53.6
85°	20.8	23.0	90.8	179.4	342.4	433.2	454.0	447.4	429.9	308.5	20.8
87.5°	0.0	0.0	40.5	64.5	86.4	98.5	86.4	112.7	237.4	207.9	10.9
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°	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9	2337.9
2.5°	2340.1	2320.4	2286.5	2249.3	2223.0	2195.7	2173.8	2163.9	2153.0	2145.3	2155.2
5°	2335.7	2297.4	2231.8	2168.3	2122.4	2085.2	2054.5	2042.5	2030.5	2021.7	2020.6
7.5°	2374.0	2320.4	2219.7	2126.7	2055.6	2005.3	1963.7	1946.2	1932.0	1925.4	1920.0
10°	2447.3	2378.4	2243.8	2122.4	2030.5	1945.1	1855.4	1786.5	1741.6	1720.9	1713.2
12.5°	2542.5	2456.0	2289.7	2145.3	2011.9	1847.8	1657.4	1493.3	1387.2	1352.2	1331.4
15°	2654.0	2546.8	2349.9	2174.9	1944.0	1644.3	1321.6	1107.1	1008.7	989.0	967.1
17.5°	2761.3	2643.1	2422.1	2180.3	1795.3	1313.9	968.2	822.7	784.4	797.5	800.8
20°	2855.3	2738.3	2493.2	2132.2	1525.0	985.7	749.4	713.3	727.5	752.7	757.0
22.5°	2950.5	2830.2	2558.9	2005.3	1179.3	748.3	675.0	683.8	698.0	723.1	727.5
25°	3066.5	2941.8	2620.1	1772.3	885.0	636.7	641.1	654.2	668.4	691.4	693.6
27.5°	3200.0	3082.9	2660.6	1469.2	656.4	585.3	599.5	619.2	633.4	655.3	659.7
30°	3377.2	3268.9	2673.7	1155.3	550.3	539.3	545.9	570.0	590.8	610.5	613.7
32.5°	3543.5	3452.7	2630.0	871.9	509.8	496.7	496.7	510.9	535.0	553.6	557.9
35°	3696.6	3637.6	2489.9	637.8	479.2	457.3	446.4	446.4	461.7	477.0	481.4
37.5°	3899.0	3896.8	2263.5	508.7	449.6	424.5	401.5	384.0	378.5	381.8	384.0
40°	4245.8	4249.1	1968.1	456.2	424.5	390.6	355.6	323.8	294.3	284.4	283.3
42.5°	4787.3	4738.1	1658.5	431.0	402.6	355.6	303.0	260.4	214.4	200.2	199.1
45°	5647.2	5355.1	1330.3	408.1	379.6	316.2	250.5	192.5	155.3	144.4	144.4
47.5°	6899.9	6165.8	1030.5	382.9	349.0	271.3	189.3	138.9	113.8	108.3	109.4
50°	8195.2	6960.0	789.9	351.2	311.8	224.3	140.0	100.6	86.4	86.4	87.5
52.5°	9343.9	7542.0	615.9	317.3	265.8	176.1	106.1	78.8	72.2	71.1	72.2
55°	10419.3	7917.3	471.5	277.9	211.1	131.3	81.0	64.5	60.2	58.0	56.9
57.5°	11456.4	8103.3	353.4	224.3	153.2	95.2	64.5	54.7	50.3	47.0	45.9
60°	12146.7	7952.3	242.9	165.2	106.1	68.9	53.6	47.0	41.6	38.3	37.2
62.5°	12536.2	7539.9	156.4	119.2	75.5	51.4	42.7	39.4	31.7	28.4	28.4
65°	12378.6	6859.4	109.4	85.3	54.7	38.3	31.7	31.7	23.0	18.6	17.5
67.5°	10969.5	5794.9	83.1	63.5	39.4	28.4	24.1	27.4	14.2	8.8	8.8
69°	9437.9	4802.7	71.1	52.5	32.8	23.0	20.8	25.2	9.8	6.6	5.5
70°	8202.8	4143.0	64.5	45.9	27.4	19.7	18.6	24.1	9.8	5.5	4.4
72.5°	4907.7	2310.5	49.2	32.8	17.5	15.3	15.3	27.4	9.8	5.5	4.4
75°	1983.4	813.9	36.1	23.0	13.1	13.1	18.6	35.0	8.8	4.4	3.3
77.5°	449.6	178.3	20.8	14.2	8.8	13.1	21.9	27.4	5.5	2.2	0.0
80°	109.4	43.8	13.1	8.8	5.5	9.8	16.4	15.3	1.1	0.0	0.0
82.5°	36.1	15.3	5.5	4.4	1.1	3.3	7.7	4.4	0.0	0.0	0.0
85°	15.3	8.8	2.2	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	9.8	3.3	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)