

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: P323148

Luminaire Tested: **GAN-SA4A-730-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14181 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

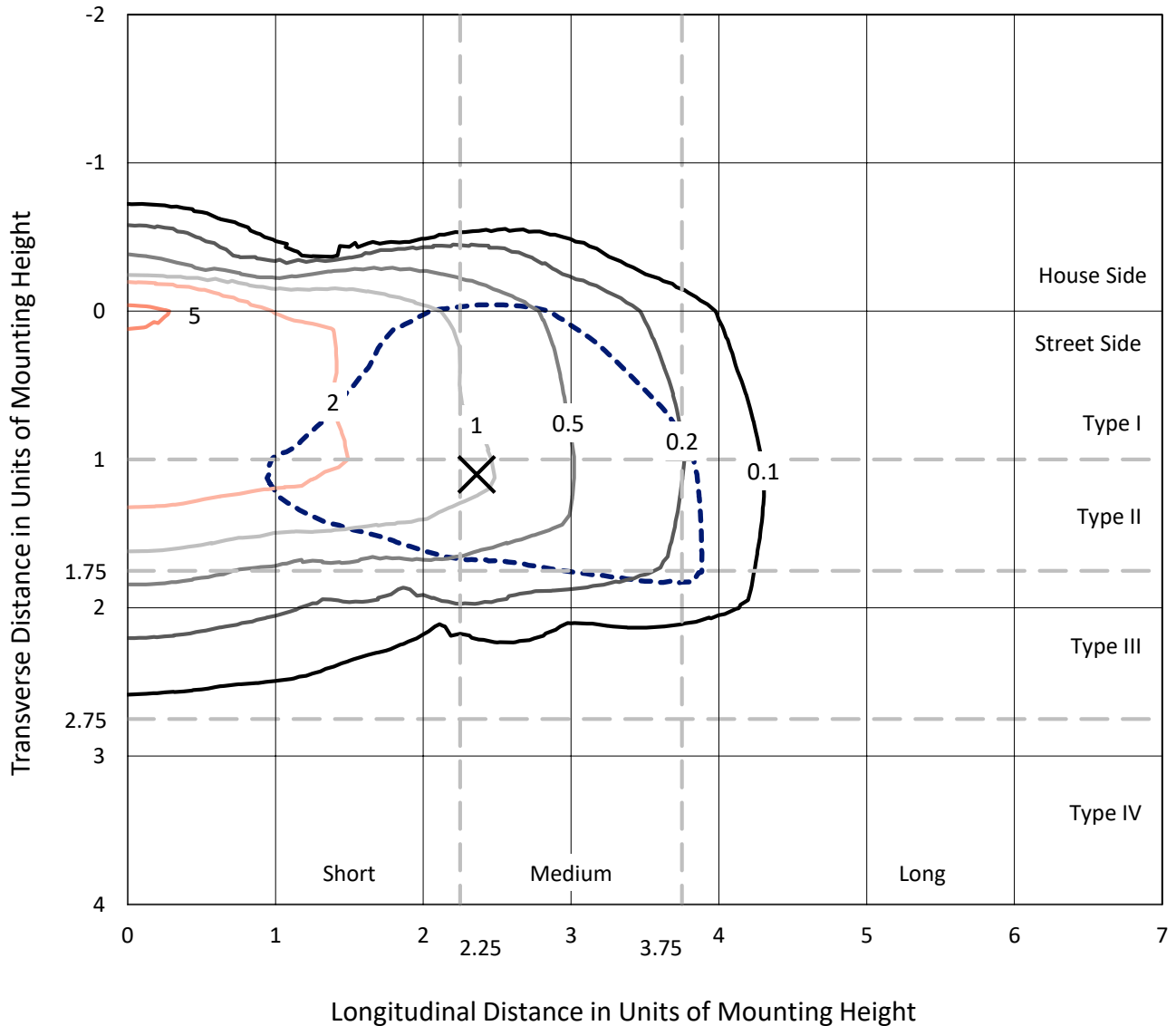
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

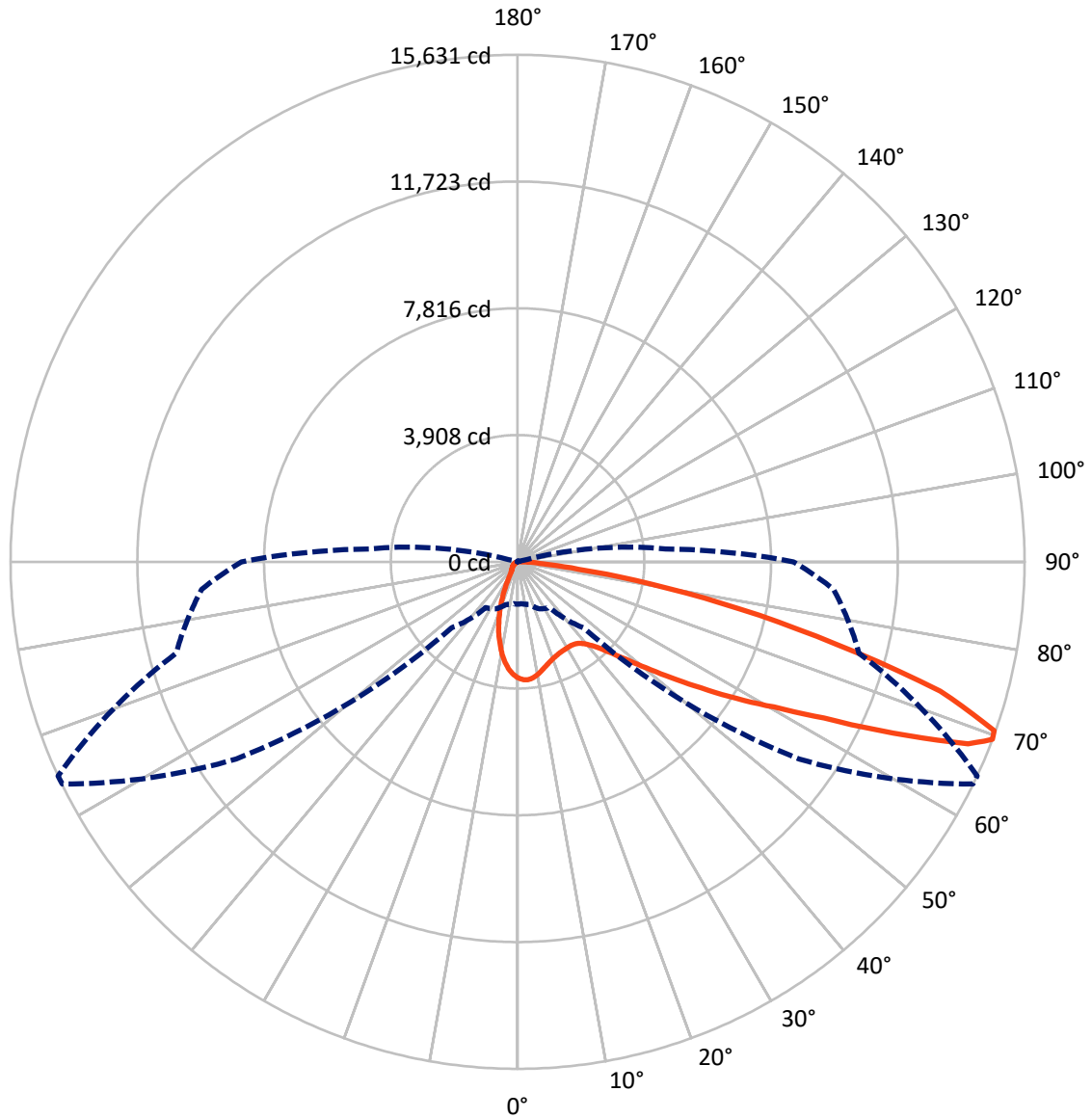
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1671.6	0.0	1671.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12509.4	0.0	12509.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	14181.0	0.0	14181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	2.1
10°-20°	656.0	4.6
20°-30°	908.5	6.4
30°-40°	1266.8	8.9
40°-50°	1969.0	13.9
50°-60°	3161.0	22.3
60°-70°	3575.7	25.2
70°-80°	2100.0	14.8
80°-90°	244.3	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°	14181.0	100.0
0°-180°	14181.0	100.0

Coefficient of Utilization

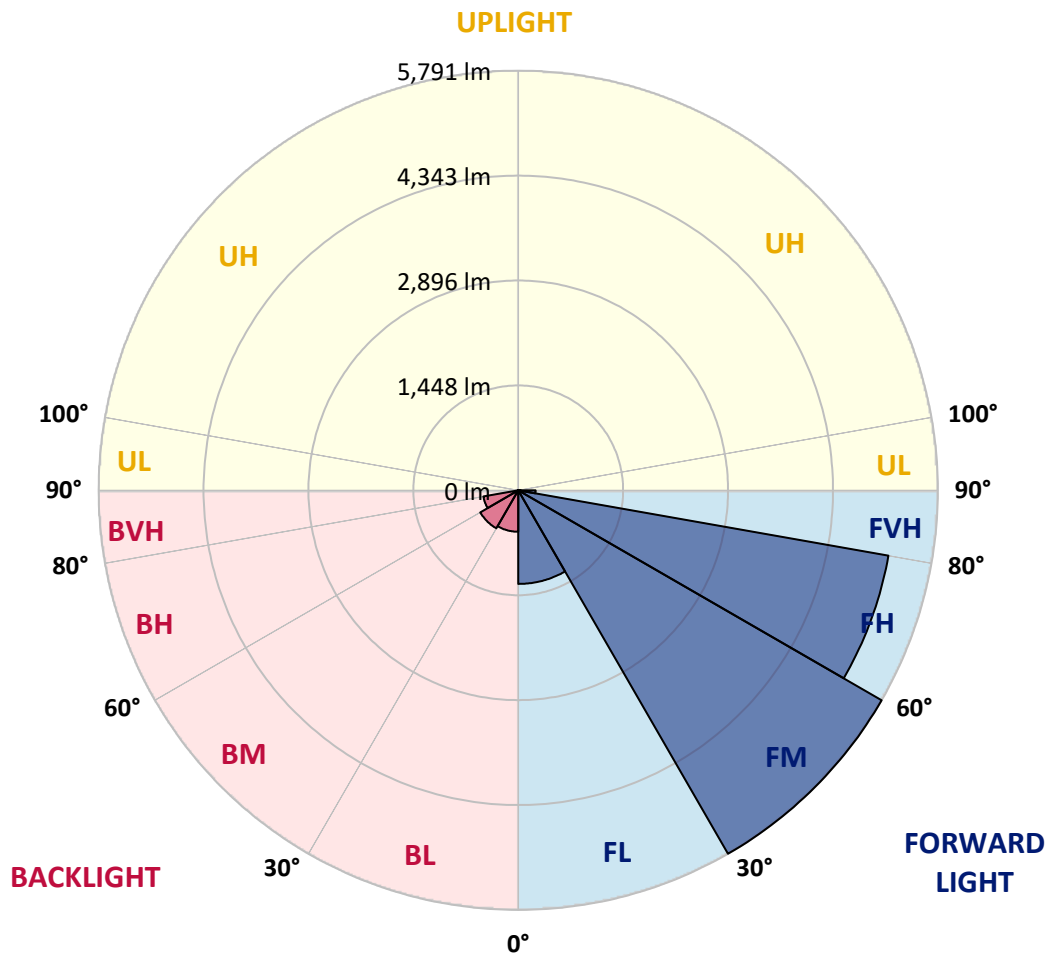


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1292.2	9.1			
FM (30°-60°)	5791.1	40.8			
FH (60°-80°)	5187.3	36.6			G3/7500
FVH (80°-90°)	238.8	1.7			G3/500
BL (0°-30°)	571.9	4.0	B2/1000		
BM (30°-60°)	605.7	4.3	B1/1000		
BH (60°-80°)	488.4	3.4	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6
2.5°	3615.4	3606.4	3613.6	3629.2	3637.0	3637.0	3643.0	3635.8	3638.2	3620.8	3595.6
5°	3389.1	3375.3	3395.1	3438.9	3493.0	3539.2	3607.6	3643.6	3647.2	3647.8	3618.4
7.5°	3145.5	3132.9	3162.3	3213.9	3283.5	3369.3	3488.8	3593.2	3599.2	3655.6	3634.0
10°	2947.5	2938.5	2972.7	3027.9	3109.5	3205.5	3351.9	3497.2	3514.6	3639.4	3631.6
12.5°	2790.3	2783.1	2815.5	2879.1	2962.5	3068.7	3221.7	3390.3	3413.7	3602.8	3619.6
15°	2675.7	2674.5	2701.5	2762.7	2855.1	2954.1	3110.7	3291.3	3318.3	3563.2	3617.8
17.5°	2615.7	2617.5	2637.3	2689.5	2768.7	2867.1	3017.1	3207.9	3237.3	3527.8	3626.8
20°	2609.7	2611.5	2622.3	2651.7	2715.9	2802.9	2940.9	3137.7	3168.3	3501.4	3641.2
22.5°	2662.5	2661.3	2664.3	2661.3	2697.3	2763.3	2890.5	3083.7	3119.1	3484.0	3652.6
25°	2763.9	2762.1	2760.9	2738.7	2714.7	2750.1	2869.5	3053.1	3086.7	3471.4	3659.2
27.5°	2904.9	2903.7	2901.9	2865.3	2793.3	2771.1	2871.9	3041.7	3069.9	3461.2	3658.0
30°	3090.3	3098.7	3096.3	3045.3	2933.1	2835.3	2897.1	3035.7	3060.3	3441.3	3645.4
32.5°	3308.1	3324.9	3338.1	3283.5	3143.1	2962.5	2955.3	3042.3	3060.3	3426.3	3622.6
35°	3534.4	3556.0	3604.6	3585.4	3400.5	3153.9	3055.5	3081.9	3096.9	3434.7	3611.8
37.5°	3757.0	3782.8	3888.4	3944.2	3737.8	3407.1	3211.5	3179.7	3187.5	3485.8	3623.8
40°	4015.6	4054.6	4214.8	4304.8	4140.4	3746.2	3444.9	3347.7	3350.7	3598.0	3679.6
42.5°	4355.2	4395.4	4568.9	4709.9	4594.1	4174.6	3761.8	3604.6	3601.6	3808.0	3811.0
45°	4769.3	4811.3	4990.7	5147.3	5095.1	4682.3	4167.4	3979.6	3976.0	4139.2	4060.0
47.5°	5238.5	5279.9	5440.2	5601.6	5658.0	5275.1	4684.1	4491.5	4483.1	4599.5	4444.7
50°	5641.2	5668.2	5815.8	6033.0	6287.4	6003.6	5326.7	5141.3	5132.3	5210.9	5009.3
52.5°	5787.6	5803.2	5953.2	6257.4	6892.3	6990.1	6171.0	5932.2	5925.6	5959.8	5761.2
55°	5491.2	5519.4	5703.6	6154.8	7219.9	8105.0	7236.7	6911.5	6861.7	6787.9	6547.3
57.5°	4683.5	4728.5	4926.5	5526.6	7066.9	8989.5	8802.9	8019.2	7946.0	7494.8	7186.3
60°	3509.2	3564.4	3728.8	4376.2	6250.2	9304.5	10514.3	9253.5	9088.5	8057.6	7773.8
62.5°	2408.0	2435.6	2547.3	2969.1	4603.1	8788.5	11946.0	10906.7	10605.5	8669.7	8409.3
65°	1839.2	1848.8	1894.4	2039.6	2741.1	7138.9	12515.5	13087.9	12723.7	9401.8	9068.7
67.5°	1482.2	1474.3	1537.4	1745.0	1835.6	4355.2	11851.2	15151.5	14981.1	10380.5	9732.4
69°	1306.9	1296.1	1360.3	1601.6	1724.0	2879.1	10594.7	15620.2	15631.0	10897.1	9778.0
70°	1176.1	1183.3	1246.9	1516.4	1686.2	2259.8	9394.6	15500.8	15586.0	11090.3	9504.4
72.5°	785.5	804.7	932.5	1258.9	1621.4	1710.2	5672.4	13301.5	13629.2	10655.3	8154.2
75°	442.8	457.2	609.1	949.3	1527.8	1628.6	2996.1	9799.6	10116.4	8910.3	6288.0
77.5°	217.2	225.0	344.4	612.7	1277.5	1551.8	1699.4	6656.5	7018.3	5815.8	3556.6
80°	91.8	96.0	172.2	378.0	913.3	1481.0	1261.9	4096.6	4141.6	2278.4	947.5
82.5°	35.4	36.6	72.6	235.8	580.3	1154.5	1055.5	1942.4	1895.6	429.0	216.0
85°	4.2	4.8	26.4	141.6	322.8	594.1	857.5	837.1	774.7	85.2	111.0
87.5°	0.0	0.0	1.8	43.2	96.0	278.4	445.8	347.4	313.2	27.6	57.6
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°	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6	3583.6
2.5°	3574.6	3568.6	3536.2	3489.4	3444.9	3389.7	3336.9	3305.1	3279.9	3263.1	3282.9
5°	3584.2	3557.8	3459.4	3333.3	3209.7	3070.5	2940.9	2831.1	2787.9	2739.9	2761.5
7.5°	3581.2	3531.4	3354.3	3129.9	2903.1	2668.5	2446.4	2275.4	2186.6	2099.6	2121.8
10°	3566.2	3482.2	3213.9	2881.5	2541.9	2204.6	1889.6	1650.2	1516.4	1395.1	1412.5
12.5°	3533.2	3416.1	3048.3	2597.1	2142.8	1698.2	1329.1	1022.5	858.1	785.5	794.5
15°	3513.4	3351.9	2873.1	2309.0	1716.8	1182.7	812.5	604.3	529.3	505.3	508.3
17.5°	3503.8	3290.1	2691.9	1979.6	1281.1	753.1	525.1	463.2	447.0	442.8	444.0
20°	3494.2	3227.7	2505.3	1653.8	882.7	506.5	431.4	413.4	407.4	402.0	403.2
22.5°	3478.0	3167.7	2304.8	1323.7	595.3	411.0	388.8	371.4	358.8	352.2	353.4
25°	3458.2	3104.7	2100.2	985.9	434.4	366.6	345.6	321.0	306.0	294.0	294.6
27.5°	3426.3	3027.3	1889.0	717.7	364.8	328.2	300.0	273.0	247.8	234.0	234.0
30°	3381.9	2939.7	1654.4	513.7	327.0	290.4	256.2	222.6	195.6	183.0	181.8
32.5°	3332.7	2848.5	1417.3	389.4	297.0	255.0	216.0	180.6	156.6	146.4	145.8
35°	3290.7	2750.1	1180.9	326.4	267.0	220.8	178.2	148.2	129.0	120.6	120.0
37.5°	3263.7	2651.7	950.5	291.6	240.0	189.0	149.4	122.4	108.6	102.0	101.4
40°	3259.5	2578.5	739.9	265.2	214.8	160.8	124.8	103.8	91.2	84.0	83.4
42.5°	3314.1	2536.5	567.7	243.0	189.0	136.2	106.2	88.8	75.6	68.4	67.8
45°	3457.6	2549.7	436.8	223.2	163.2	115.2	90.0	73.8	61.8	56.4	55.2
47.5°	3719.2	2640.9	347.4	203.4	138.6	97.8	76.8	61.2	51.0	45.6	45.0
50°	4184.8	2855.1	290.4	181.8	115.8	83.4	63.6	49.8	41.4	36.6	36.0
52.5°	4802.9	3236.7	259.2	160.8	96.0	70.8	52.2	39.6	32.4	28.8	28.2
55°	5484.6	3698.8	238.8	138.0	78.6	58.8	41.4	31.2	25.2	22.2	21.0
57.5°	6150.0	4099.0	219.6	115.8	65.4	48.0	33.0	24.6	19.8	16.8	16.2
60°	6761.5	4466.9	197.4	93.0	53.4	37.8	25.8	19.2	15.6	12.6	12.6
62.5°	7416.2	4751.3	166.8	72.6	43.8	28.8	21.0	17.4	12.6	10.8	10.2
65°	8109.8	4962.5	130.8	56.4	34.2	21.6	17.4	18.0	10.2	7.8	7.2
67.5°	8622.3	4920.5	96.6	44.4	26.4	16.8	16.8	19.2	9.0	6.0	5.4
69°	8509.5	4579.1	81.0	38.4	22.8	14.4	15.6	19.2	8.4	5.4	4.8
70°	8182.4	4201.0	71.4	34.2	20.4	13.2	15.0	18.6	7.8	5.4	4.8
72.5°	6814.3	3164.1	55.8	25.8	16.2	10.8	12.6	16.2	7.8	5.4	4.2
75°	5125.7	2025.2	42.6	18.6	12.0	8.4	9.6	12.0	7.8	4.8	4.2
77.5°	2789.1	730.3	30.6	12.6	8.4	6.6	6.6	9.0	7.2	3.6	2.4
80°	717.1	183.6	19.2	8.4	6.6	4.8	4.2	6.0	4.2	0.6	0.0
82.5°	177.0	41.4	10.2	6.0	4.8	1.8	1.8	3.0	1.8	0.0	0.0
85°	97.2	20.4	6.6	4.2	2.4	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	49.8	6.0	1.8	1.2	0.6	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)