

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: P318388

Luminaire Tested: **GAN-SA4A-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18803 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

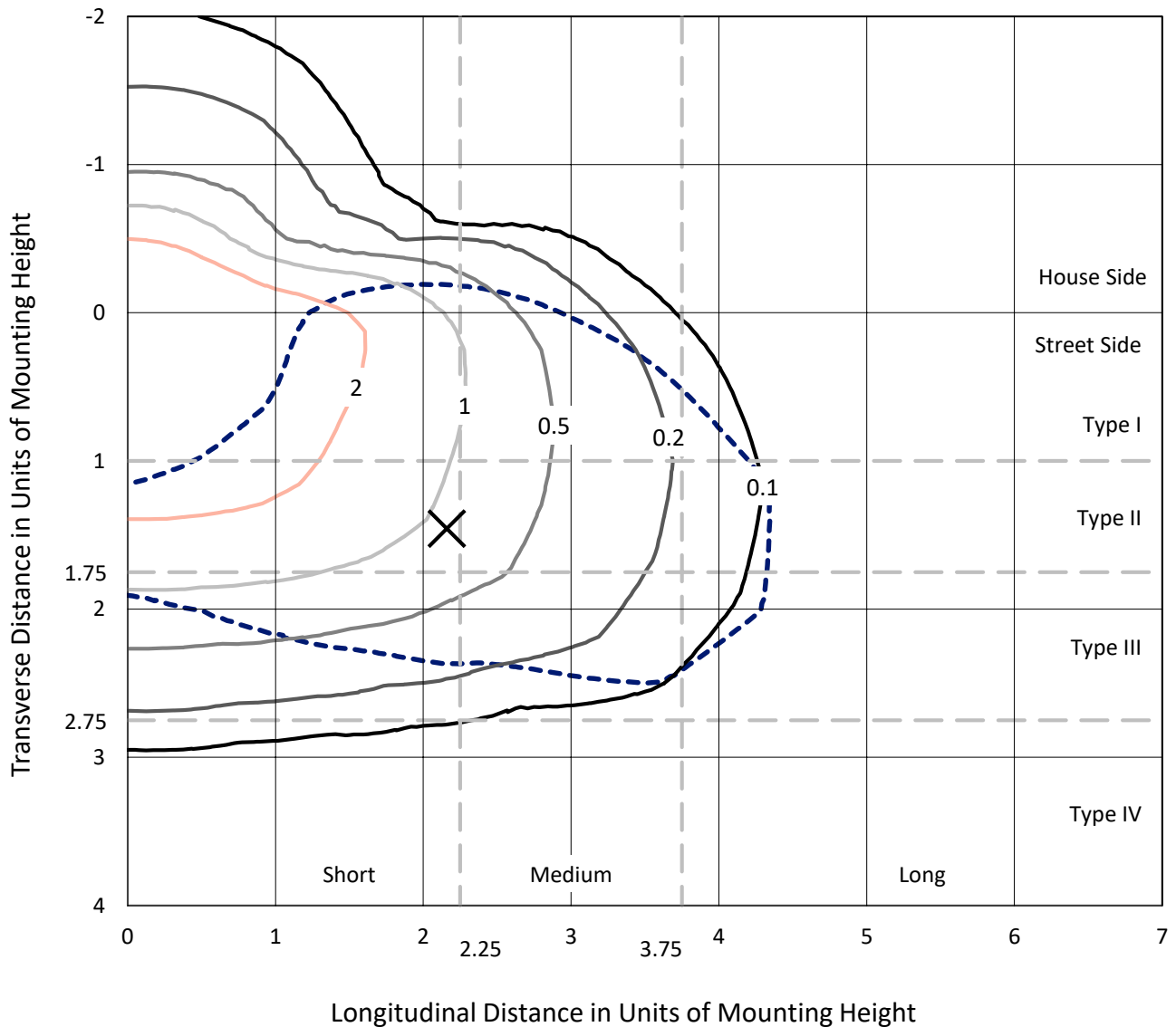
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

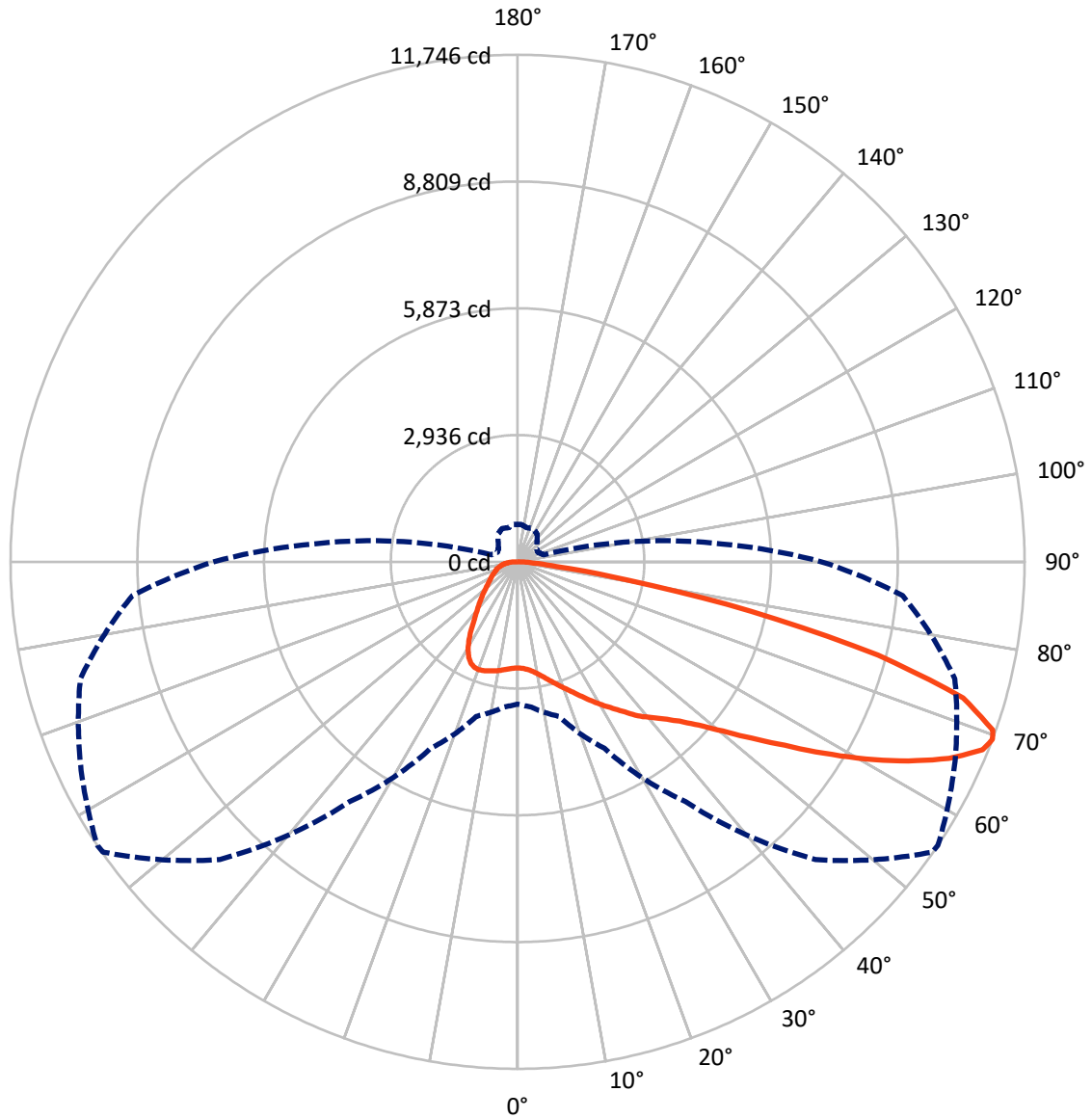
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4187.4	0.0	4187.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14615.6	0.0	14615.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	18803.0	0.0	18803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	1.3
10°-20°	776.4	4.1
20°-30°	1355.2	7.2
30°-40°	1946.7	10.4
40°-50°	2694.2	14.3
50°-60°	3947.3	21.0
60°-70°	4812.5	25.6
70°-80°	2660.7	14.2
80°-90°	368.5	2.0
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°	18803.0	100.0
0°-180°	18803.0	100.0

Coefficient of Utilization



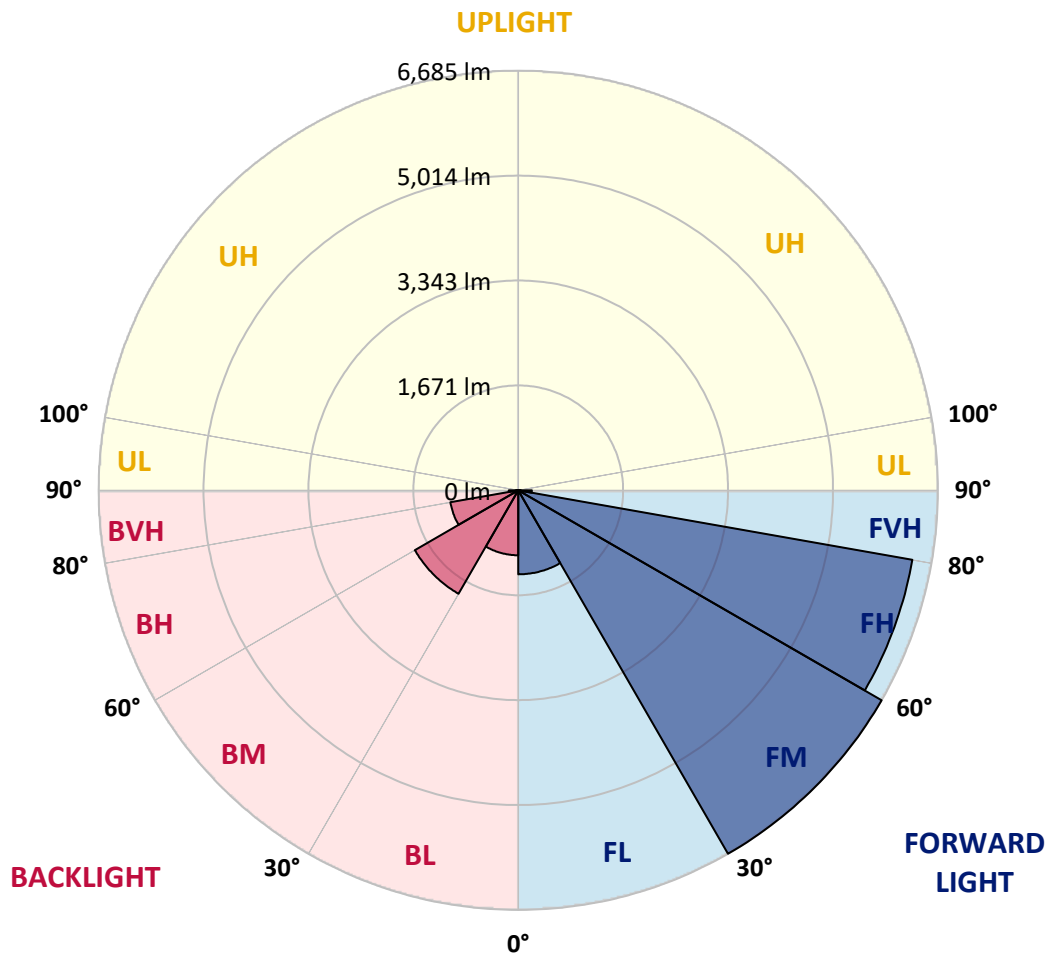
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1338.2	7.1			
FM (30°-60°)	6685.2	35.6			
FH (60°-80°)	6375.2	33.9			G3/7500
FVH (80°-90°)	217.1	1.2			G2/225
BL (0°-30°)	1034.8	5.5	B3/2500		
BM (30°-60°)	1903.1	10.1	B2/2500		
BH (60°-80°)	1098.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	151.4	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2
2.5°	2473.8	2476.3	2474.4	2479.6	2473.8	2477.6	2474.4	2474.4	2472.5	2466.6	2460.2
5°	2512.6	2517.8	2514.6	2519.7	2512.6	2513.9	2508.1	2508.1	2502.3	2489.9	2477.0
7.5°	2573.5	2579.3	2576.7	2581.9	2572.2	2572.2	2564.4	2563.8	2552.1	2532.1	2517.2
10°	2646.1	2653.8	2651.2	2659.0	2651.2	2653.8	2646.1	2646.1	2630.5	2602.0	2583.2
12.5°	2751.6	2761.4	2754.2	2753.6	2750.3	2755.5	2749.0	2747.8	2733.5	2694.6	2668.7
15°	2892.8	2903.2	2888.3	2887.0	2868.9	2866.9	2866.9	2865.0	2855.9	2809.3	2766.5
17.5°	3055.4	3058.7	3045.7	3025.0	3001.7	2986.8	2984.8	2990.0	2990.0	2935.6	2867.6
20°	3214.8	3220.6	3210.2	3186.9	3157.1	3135.1	3119.6	3129.9	3129.3	3064.5	2968.0
22.5°	3388.4	3402.0	3386.4	3356.6	3321.7	3297.0	3269.8	3278.9	3279.6	3199.9	3066.4
25°	3613.1	3600.8	3591.1	3549.0	3499.1	3473.9	3448.6	3457.7	3455.1	3345.6	3168.1
27.5°	3812.0	3814.6	3801.6	3756.9	3699.3	3643.6	3642.3	3648.1	3638.4	3497.2	3264.0
30°	4043.3	4044.5	4026.4	3986.3	3923.4	3851.5	3834.7	3844.4	3823.7	3641.0	3365.1
32.5°	4273.2	4279.7	4259.6	4211.0	4160.5	4073.0	4039.4	4045.8	3994.0	3788.0	3469.3
35°	4474.7	4483.7	4477.2	4444.9	4389.8	4314.7	4274.5	4270.6	4206.5	3968.1	3607.3
37.5°	4680.0	4688.4	4681.3	4654.1	4632.1	4552.4	4531.0	4531.0	4419.6	4152.1	3782.9
40°	4891.2	4904.1	4895.7	4858.1	4839.3	4803.1	4751.9	4739.6	4619.1	4373.0	4069.2
42.5°	5087.4	5104.3	5137.9	5115.9	5077.7	5082.9	4979.9	4973.4	4885.3	4699.4	4428.7
45°	5366.0	5390.6	5447.6	5430.7	5423.0	5394.5	5272.0	5266.2	5232.5	5138.6	4875.0
47.5°	5669.8	5703.4	5806.4	5809.7	5893.2	5839.5	5673.0	5652.9	5660.7	5664.6	5419.7
50°	5949.6	5986.5	6155.6	6235.2	6432.2	6443.8	6177.6	6159.4	6189.9	6279.3	6054.5
52.5°	6173.1	6219.7	6430.9	6677.0	7014.5	7110.3	6798.8	6785.2	6807.8	6962.0	6772.2
55°	6336.9	6387.5	6617.4	7065.7	7604.6	7773.6	7513.9	7500.9	7515.2	7711.5	7552.8
57.5°	6375.2	6387.5	6721.0	7327.3	8102.7	8508.8	8389.0	8363.1	8293.1	8464.1	8414.3
60°	6195.7	6245.0	6635.5	7419.3	8488.1	9233.7	9303.6	9271.2	9075.0	9214.9	9174.7
62.5°	5831.7	5919.8	6316.2	7279.4	8639.0	9825.7	10200.8	10161.9	9823.8	9914.5	9721.4
65°	5237.1	5274.6	5691.1	6796.8	8447.3	10204.6	11000.7	10981.3	10555.7	10413.9	9822.5
67.5°	4173.4	4244.1	4597.7	5788.3	7662.9	10160.0	11619.3	11617.4	11033.8	10599.1	9464.3
69°	3297.0	3370.2	3707.1	4768.1	6780.6	9751.2	11723.0	11745.6	11168.5	10486.4	8952.5
70°	2628.6	2713.4	2944.7	4016.0	5997.5	9212.3	11636.8	11677.6	11142.6	10300.5	8480.3
72.5°	1118.7	1187.3	1351.9	2070.2	3655.3	6879.1	10639.9	10794.1	10542.1	9427.3	7008.6
75°	488.4	509.8	584.3	844.0	1622.6	3744.0	8335.2	8620.2	9014.1	7968.6	5220.9
77.5°	357.6	366.6	407.4	495.5	728.1	1414.0	5360.1	5526.0	6500.8	5798.7	3202.5
80°	276.6	283.1	314.8	364.0	475.4	572.0	2444.6	2587.1	3655.3	2978.4	1333.7
82.5°	220.2	224.8	246.8	268.2	328.4	346.5	811.6	900.4	1349.3	822.6	353.0
85°	204.7	209.9	217.6	195.6	210.5	203.4	351.1	367.3	407.4	323.2	147.7
87.5°	92.6	109.5	215.7	152.2	112.1	89.4	143.8	150.3	169.1	169.7	65.4
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°	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2	2458.2
2.5°	2464.0	2462.1	2465.3	2457.6	2467.3	2466.6	2463.4	2464.7	2471.2	2470.5	2471.2
5°	2478.9	2477.6	2481.5	2475.7	2487.4	2491.2	2491.9	2497.7	2504.8	2506.8	2506.8
7.5°	2516.5	2516.5	2518.4	2510.7	2518.4	2517.8	2514.6	2520.4	2527.5	2528.2	2527.5
10°	2581.3	2581.9	2578.7	2558.6	2552.1	2534.6	2518.4	2519.1	2528.2	2535.3	2537.2
12.5°	2662.9	2660.3	2646.1	2609.1	2581.9	2546.3	2529.5	2528.8	2537.9	2543.7	2545.7
15°	2756.2	2749.0	2712.1	2651.9	2604.0	2569.0	2541.8	2535.3	2530.1	2523.6	2524.3
17.5°	2844.3	2828.1	2766.5	2683.0	2632.5	2585.8	2533.3	2491.2	2462.1	2445.3	2440.1
20°	2933.7	2901.9	2813.2	2712.1	2648.0	2563.1	2462.1	2376.6	2323.5	2298.9	2294.3
22.5°	3015.3	2964.1	2856.6	2742.6	2635.7	2486.7	2328.0	2203.6	2129.8	2096.8	2099.4
25°	3094.9	3023.7	2901.9	2763.9	2573.5	2352.0	2141.5	1988.6	1903.1	1866.2	1864.9
27.5°	3164.9	3083.9	2951.1	2746.5	2457.6	2160.2	1920.6	1771.6	1700.3	1668.6	1663.4
30°	3245.2	3159.7	3016.6	2679.7	2287.9	1938.7	1704.9	1599.9	1549.4	1517.7	1511.8
32.5°	3343.0	3262.7	3070.3	2558.6	2070.9	1707.5	1536.5	1463.3	1417.3	1381.6	1375.2
35°	3485.5	3398.7	3083.9	2385.0	1832.5	1524.8	1412.7	1337.6	1275.4	1229.4	1224.9
37.5°	3664.3	3569.1	3052.8	2160.2	1601.2	1406.3	1309.7	1217.1	1136.2	1071.4	1061.0
40°	3922.1	3778.3	2966.7	1901.1	1430.9	1314.9	1209.3	1103.8	1003.4	927.6	912.7
42.5°	4231.7	4023.8	2834.6	1643.3	1305.9	1222.3	1109.6	978.7	882.9	829.1	821.3
45°	4625.6	4279.0	2651.2	1417.9	1182.8	1129.7	1002.1	881.6	822.0	782.5	776.0
47.5°	5075.1	4565.3	2458.9	1234.6	1078.5	1042.9	915.9	838.2	790.9	759.8	754.0
50°	5627.6	4888.6	2254.8	1084.3	973.6	938.6	875.1	814.2	776.7	752.7	746.9
52.5°	6250.8	5253.2	2107.8	965.8	886.8	861.5	853.7	801.3	770.8	752.7	746.9
55°	6921.9	5624.4	1949.1	866.0	811.6	818.8	839.5	802.6	781.8	759.8	751.4
57.5°	7593.6	6007.9	1772.2	781.8	752.0	787.0	829.8	805.2	787.7	766.3	758.5
60°	8124.7	6250.8	1498.2	711.2	704.8	752.0	806.4	785.7	763.0	763.7	762.4
62.5°	8372.8	6237.8	1195.7	648.4	657.5	704.8	768.9	755.3	736.5	761.8	763.7
65°	8233.5	5926.9	930.8	591.4	606.9	655.5	730.0	740.4	746.9	795.4	801.9
67.5°	7649.3	5321.9	720.9	541.5	561.0	621.8	733.9	806.4	814.9	866.0	865.4
69°	7044.9	4754.5	626.4	515.6	538.3	630.3	784.4	848.6	816.8	871.2	863.5
70°	6538.4	4305.6	575.8	498.1	527.9	645.2	818.1	847.9	807.1	853.7	840.8
72.5°	5035.6	3097.5	488.4	465.7	492.9	617.3	827.8	829.1	784.4	793.5	771.5
75°	3453.8	1957.5	426.2	421.7	439.8	556.4	796.7	792.2	725.5	712.5	694.4
77.5°	1904.4	994.3	362.1	379.6	391.9	492.9	724.2	717.7	662.6	635.4	629.0
80°	734.5	435.3	305.7	337.5	345.3	426.9	634.8	629.0	583.0	548.0	538.3
82.5°	277.2	228.0	252.6	292.1	289.5	352.4	537.6	534.4	489.7	438.5	423.0
85°	128.3	136.7	200.2	241.0	222.2	261.0	430.1	435.9	381.5	320.6	320.6
87.5°	54.4	76.4	141.9	182.0	149.6	176.2	315.5	301.2	276.6	191.7	180.1
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)