

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: P480965

Luminaire Tested: **IFLD-S-SA3B-760-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480965
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-760-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

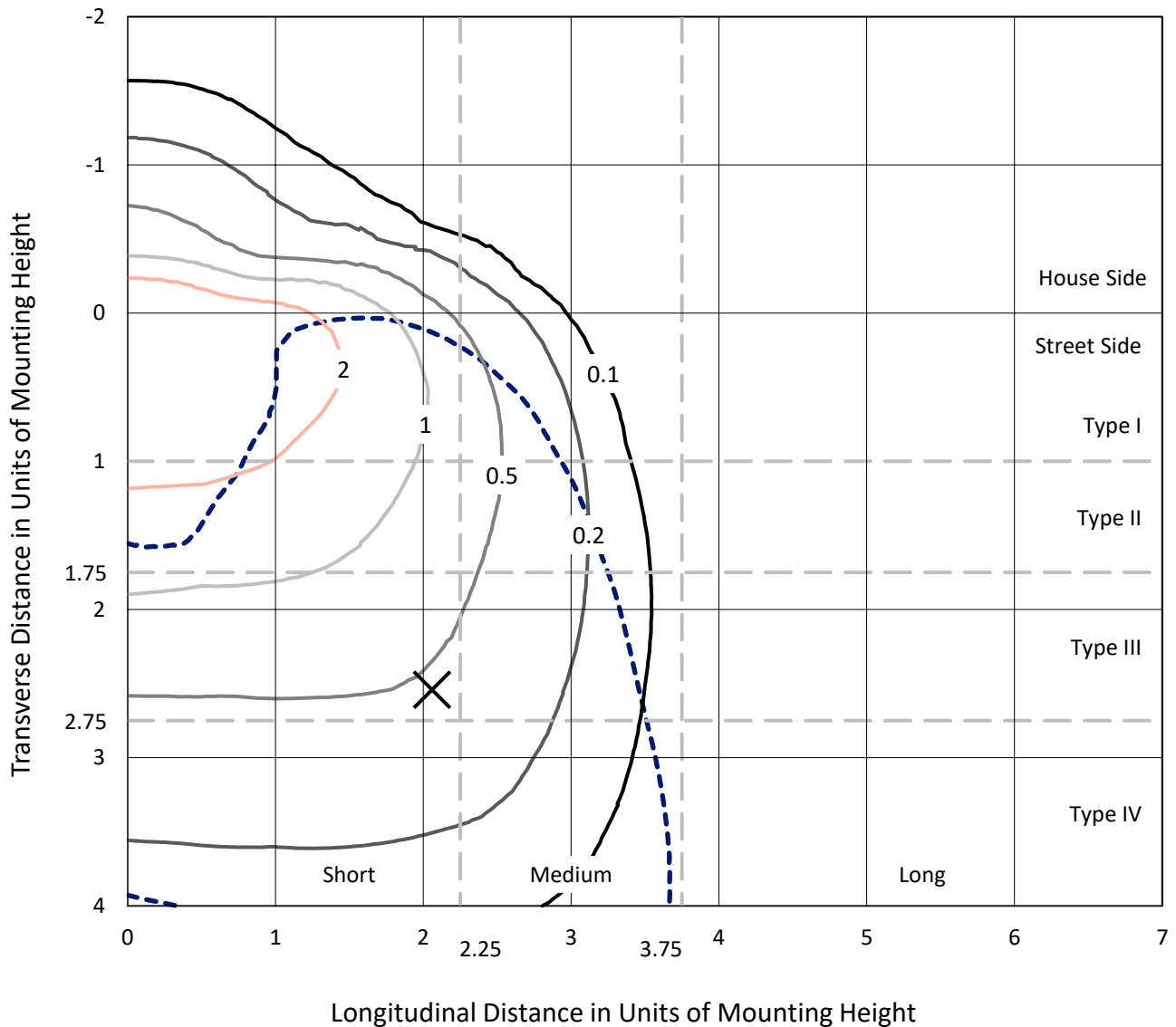
Lumens per Lamp: N/A
Luminaire Lumens: 16836 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 122.4
Input Voltage (V): 120
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

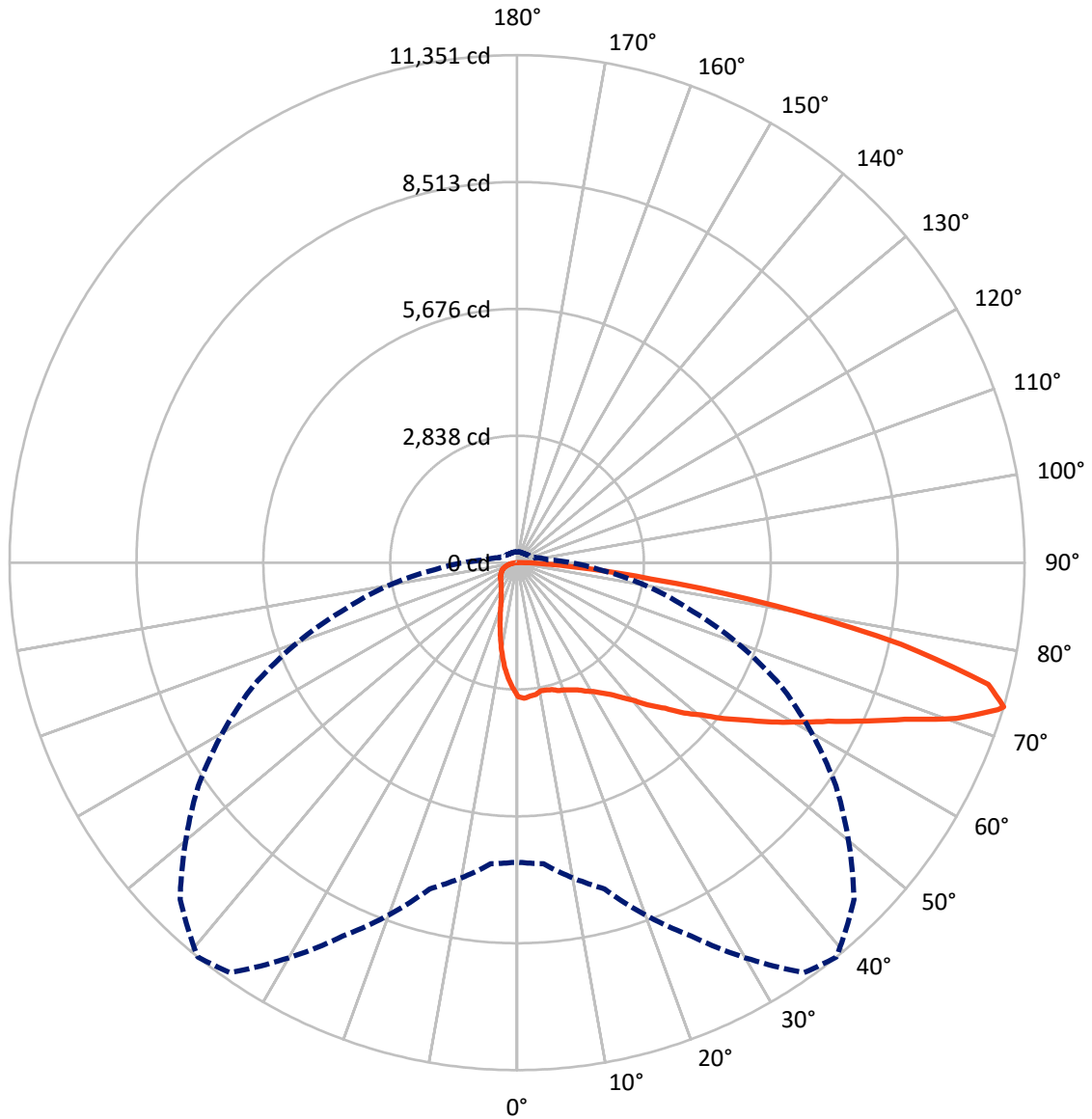
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2366.7	0.0	2366.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14469.3	0.0	14469.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	16836.0	0.0	16836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.2	1.5
10°-20°	661.3	3.9
20°-30°	1010.6	6.0
30°-40°	1473.5	8.8
40°-50°	2226.6	13.2
50°-60°	3224.3	19.2
60°-70°	4096.6	24.3
70°-80°	3320.9	19.7
80°-90°	561.9	3.3
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°	16836.0	100.0
0°-180°	16836.0	100.0

Coefficient of Utilization



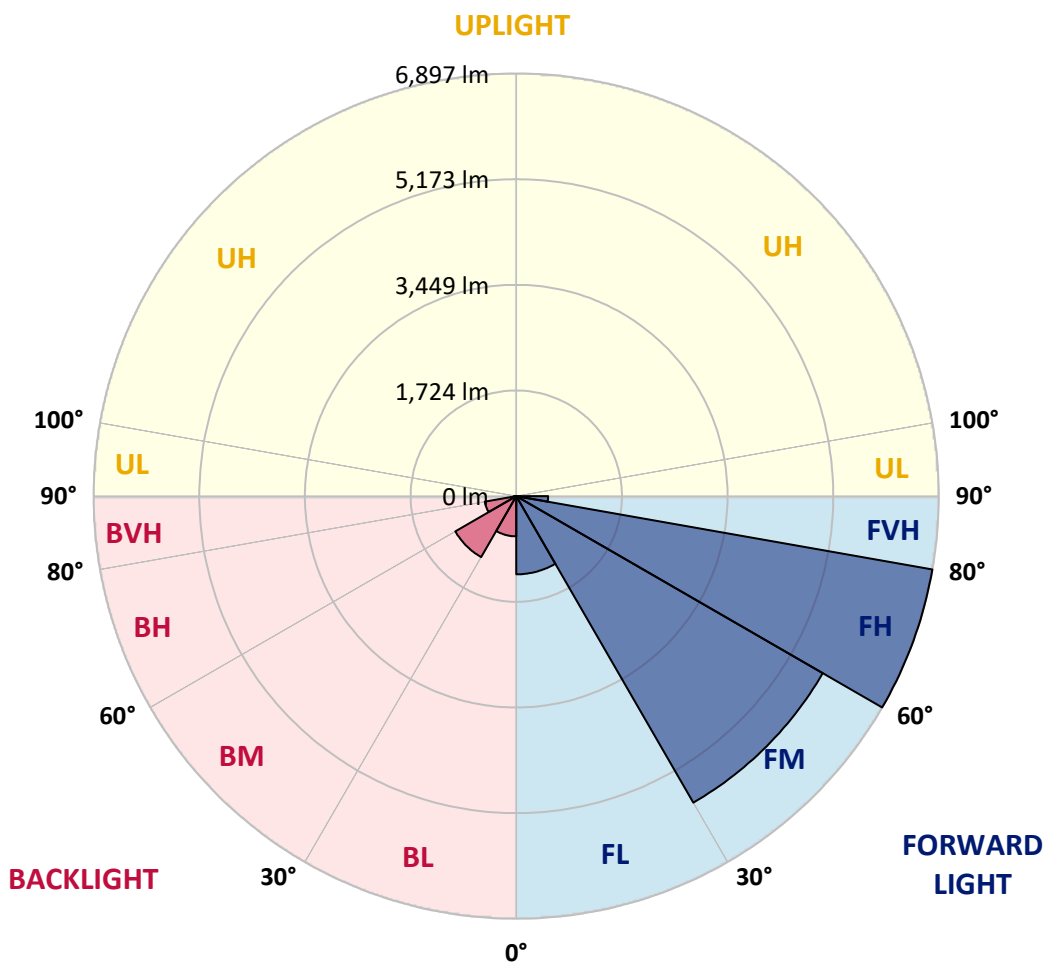
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.8	7.6			
FM (30°-60°)	5775.8	34.3			
FH (60°-80°)	6897.0	41.0			G3/7500
FVH (80°-90°)	520.7	3.1			G4/750
BL (0°-30°)	656.3	3.9	B2/1000		
BM (30°-60°)	1148.6	6.8	B2/2500		
BH (60°-80°)	520.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	41.2	0.2			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9
2.5°	3068.5	3036.5	3042.1	3030.8	3042.1	3038.4	3032.7	3004.4	3032.7	3004.4	2996.9
5°	3027.1	3027.1	3045.9	3017.6	3021.4	3002.6	3021.4	3000.7	2981.8	2934.8	2921.6
7.5°	3013.9	3012.0	3013.9	2974.3	2993.1	2981.8	2963.0	2940.4	2902.7	2872.6	2829.3
10°	2923.5	2942.3	2921.6	2932.9	2947.9	2914.0	2912.1	2906.5	2889.5	2850.0	2823.6
12.5°	2874.5	2906.5	2917.8	2908.4	2921.6	2925.3	2914.0	2906.5	2885.8	2859.4	2784.1
15°	2895.2	2857.5	2889.5	2951.7	2938.5	2947.9	2949.8	2942.3	2932.9	2883.9	2834.9
17.5°	2900.8	2878.2	2946.1	2959.2	2976.2	3010.1	2987.5	2985.6	2949.8	2915.9	2844.3
20°	2914.0	2904.6	2959.2	3028.9	3030.8	3036.5	3047.8	3019.5	3000.7	2942.3	2833.0
22.5°	2963.0	2995.0	3045.9	3076.0	3093.0	3096.7	3096.7	3040.2	3019.5	2972.4	2885.8
25°	3109.9	3076.0	3147.6	3183.4	3158.9	3153.3	3140.1	3089.2	3066.6	3025.2	2910.3
27.5°	3217.3	3215.4	3256.9	3305.8	3239.9	3253.1	3206.0	3190.9	3140.1	3117.5	2953.6
30°	3364.2	3405.7	3403.8	3418.9	3332.2	3347.3	3287.0	3258.7	3230.5	3243.7	3081.7
32.5°	3552.6	3537.5	3562.0	3550.7	3464.1	3477.2	3405.7	3362.3	3371.8	3411.3	3256.9
35°	3673.1	3658.1	3667.5	3667.5	3641.1	3626.1	3595.9	3539.4	3584.6	3658.1	3452.8
37.5°	3803.1	3822.0	3876.6	3865.3	3831.4	3831.4	3827.6	3788.1	3846.4	4027.3	3765.4
40°	3918.0	3968.9	4002.8	4025.4	4065.0	4065.0	4097.0	4074.4	4179.9	4469.9	4147.8
42.5°	4038.6	4040.5	4225.1	4242.0	4330.5	4368.2	4392.7	4411.5	4609.3	4933.3	4556.6
45°	4193.0	4202.5	4364.5	4494.4	4631.9	4645.1	4737.4	4799.6	5042.6	5440.0	5001.1
47.5°	4396.5	4385.2	4558.5	4765.7	4937.1	5027.5	5138.6	5206.5	5506.0	5990.1	5487.1
50°	4664.0	4630.1	4729.9	5055.8	5257.3	5357.1	5554.9	5668.0	6018.3	6515.6	5820.5
52.5°	4989.8	4933.3	5012.4	5368.4	5594.5	5796.0	5984.4	6110.6	6476.0	6922.5	6067.3
55°	5334.5	5217.8	5240.4	5700.0	6025.8	6216.1	6474.2	6606.0	6979.0	7287.9	6314.1
57.5°	5675.5	5602.0	5556.8	6018.3	6540.1	6722.8	6960.1	7131.6	7448.0	7611.9	6523.1
60°	5961.8	5943.0	5869.5	6511.8	7084.5	7240.8	7489.5	7594.9	7834.2	7911.4	6526.9
62.5°	6197.3	6133.2	6250.0	6909.3	7638.3	7815.3	8088.5	8097.9	8267.4	8097.9	6334.8
65°	6381.9	6385.6	6572.1	7389.6	8278.7	8540.5	8760.9	8736.4	8627.2	7986.7	5880.8
67.5°	6549.5	6621.1	6894.2	7917.1	9101.9	9348.6	9593.5	9269.5	8725.1	7466.9	4993.6
70°	6681.4	6752.9	7329.3	8559.4	10072.0	10433.6	10488.3	9480.5	8274.9	6325.4	3767.3
72.5°	6666.3	6796.3	7576.1	9071.7	10932.8	11245.5	10804.7	8887.1	6894.2	4409.7	2198.2
73°	6698.3	6762.4	7555.4	9214.9	11194.6	11351.0	10657.8	8700.7	6502.4	3955.7	1859.2
75°	6080.5	6297.1	7180.5	8981.3	10914.0	10885.7	9813.9	7250.2	4622.5	2077.7	900.4
77.5°	4498.2	4635.7	5658.5	7385.9	8958.7	8777.9	7402.8	4633.8	2194.5	770.4	486.0
80°	2198.2	2305.6	2998.8	4264.6	5858.2	5873.3	4594.3	2411.1	939.9	435.1	331.5
82.5°	1098.2	1162.2	1441.0	1874.2	2882.0	3019.5	2330.1	1371.3	582.1	246.8	188.4
85°	717.7	762.9	887.2	917.3	1222.5	1290.3	1085.0	1069.9	378.6	133.7	152.6
87.5°	476.6	484.1	544.4	463.4	489.8	470.9	523.7	674.4	111.1	56.5	41.4
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°	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9	2996.9
2.5°	2987.5	2961.1	2932.9	2893.3	2865.1	2821.7	2782.2	2765.2	2761.5	2763.3	2744.5
5°	2910.3	2872.6	2816.1	2735.1	2688.0	2616.4	2556.1	2524.1	2490.2	2495.9	2480.8
7.5°	2802.9	2761.5	2674.8	2580.6	2463.8	2362.1	2305.6	2226.5	2181.3	2147.4	2166.2
10°	2769.0	2697.4	2567.4	2437.5	2256.6	2122.9	1992.9	1902.5	1840.3	1780.1	1806.4
12.5°	2752.0	2680.5	2499.6	2307.5	2073.9	1870.5	1687.8	1576.6	1488.1	1435.4	1456.1
15°	2737.0	2648.4	2435.6	2164.3	1902.5	1635.0	1429.7	1282.8	1198.0	1147.2	1152.8
17.5°	2757.7	2631.5	2341.4	2024.9	1714.1	1427.8	1199.9	1047.3	960.7	928.6	921.1
20°	2737.0	2612.6	2249.1	1885.6	1525.8	1230.0	1011.5	885.3	825.0	798.7	793.0
22.5°	2744.5	2567.4	2153.0	1731.1	1350.6	1064.3	885.3	789.3	742.2	729.0	732.7
25°	2780.3	2541.1	2057.0	1561.6	1177.3	941.8	804.3	730.9	697.0	683.8	687.5
27.5°	2806.7	2563.7	1970.3	1401.4	1030.4	832.6	736.5	687.5	664.9	655.5	653.6
30°	2872.6	2576.9	1885.6	1258.3	909.8	761.0	689.4	649.9	634.8	629.1	627.3
32.5°	2970.5	2601.3	1787.6	1126.4	821.3	693.2	651.7	617.8	614.1	608.4	610.3
35°	3130.7	2686.1	1678.3	1013.4	736.5	648.0	612.2	589.6	589.6	589.6	595.2
37.5°	3360.5	2804.8	1580.4	906.0	681.9	608.4	578.3	570.8	567.0	572.6	576.4
40°	3656.2	2947.9	1501.3	821.3	634.8	582.1	555.7	551.9	550.0	548.1	551.9
42.5°	3980.2	3130.7	1433.5	755.4	600.9	553.8	535.0	531.2	523.7	527.4	533.1
45°	4302.3	3356.7	1373.2	702.6	578.3	538.7	512.4	510.5	506.7	504.8	514.2
47.5°	4660.2	3579.0	1354.4	670.6	561.3	516.1	497.3	495.4	484.1	482.2	489.8
50°	4939.0	3742.8	1375.1	655.5	536.8	499.2	486.0	476.6	467.1	457.7	457.7
52.5°	5131.1	3855.9	1390.1	644.2	523.7	476.6	459.6	455.8	446.4	437.0	433.2
55°	5304.4	3923.7	1393.9	646.1	510.5	450.2	438.9	437.0	431.4	416.3	412.5
57.5°	5362.8	3895.4	1318.6	629.1	502.9	433.2	418.2	421.9	414.4	401.2	399.3
60°	5357.1	3699.5	1147.2	606.5	486.0	414.4	395.6	406.9	406.9	391.8	389.9
62.5°	5031.3	3247.4	938.1	563.2	467.1	395.6	374.8	391.8	397.5	388.0	386.2
65°	4355.0	2644.7	783.6	519.9	438.9	374.8	354.1	373.0	382.4	378.6	376.7
67.5°	3603.5	2023.1	651.7	463.4	403.1	346.6	329.6	342.8	348.5	350.4	352.2
70°	2546.7	1346.8	544.4	401.2	354.1	316.5	297.6	299.5	297.6	303.3	303.3
72.5°	1384.5	776.1	442.7	340.9	305.2	275.0	261.8	252.4	252.4	250.5	250.5
73°	1184.8	697.0	421.9	331.5	292.0	267.5	252.4	244.9	244.9	243.0	241.1
75°	664.9	510.5	361.7	284.4	252.4	233.6	222.3	211.0	209.1	209.1	209.1
77.5°	437.0	397.5	288.2	227.9	203.4	186.5	182.7	171.4	171.4	171.4	169.5
80°	327.8	312.7	222.3	173.3	156.3	143.2	139.4	131.9	130.0	122.4	124.3
82.5°	218.5	246.8	162.0	122.4	105.5	98.0	98.0	96.1	90.4	81.0	81.0
85°	173.3	201.6	116.8	75.3	62.2	52.7	54.6	52.7	50.9	41.4	39.6
87.5°	32.0	81.0	33.9	20.7	15.1	9.4	9.4	5.7	3.8	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)