

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: P479991

Luminaire Tested: **IFLD-S-SA3C-727-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479991  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-727-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

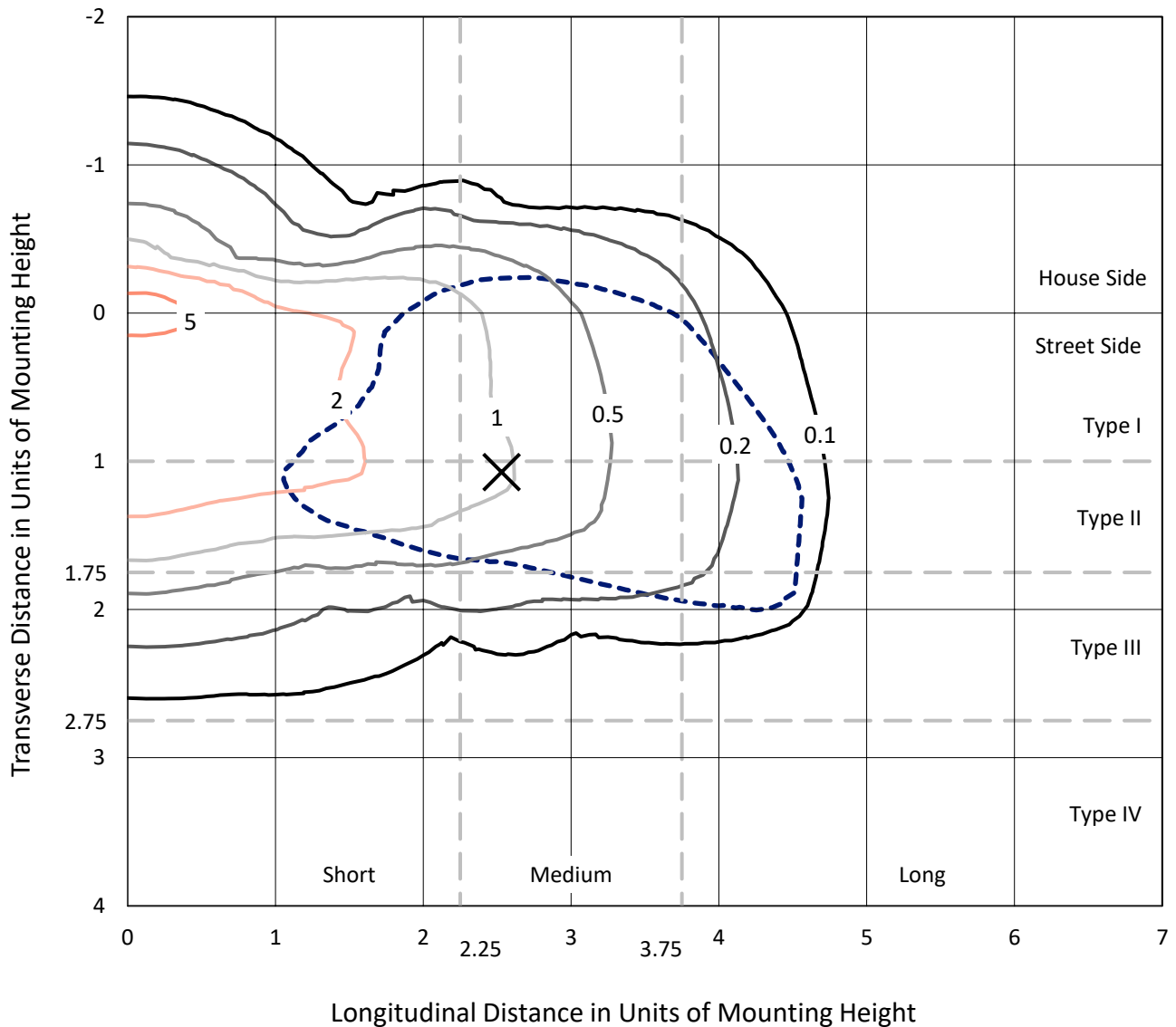
Lumens per Lamp: N/A  
Luminaire Lumens: 17662.4 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8  
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

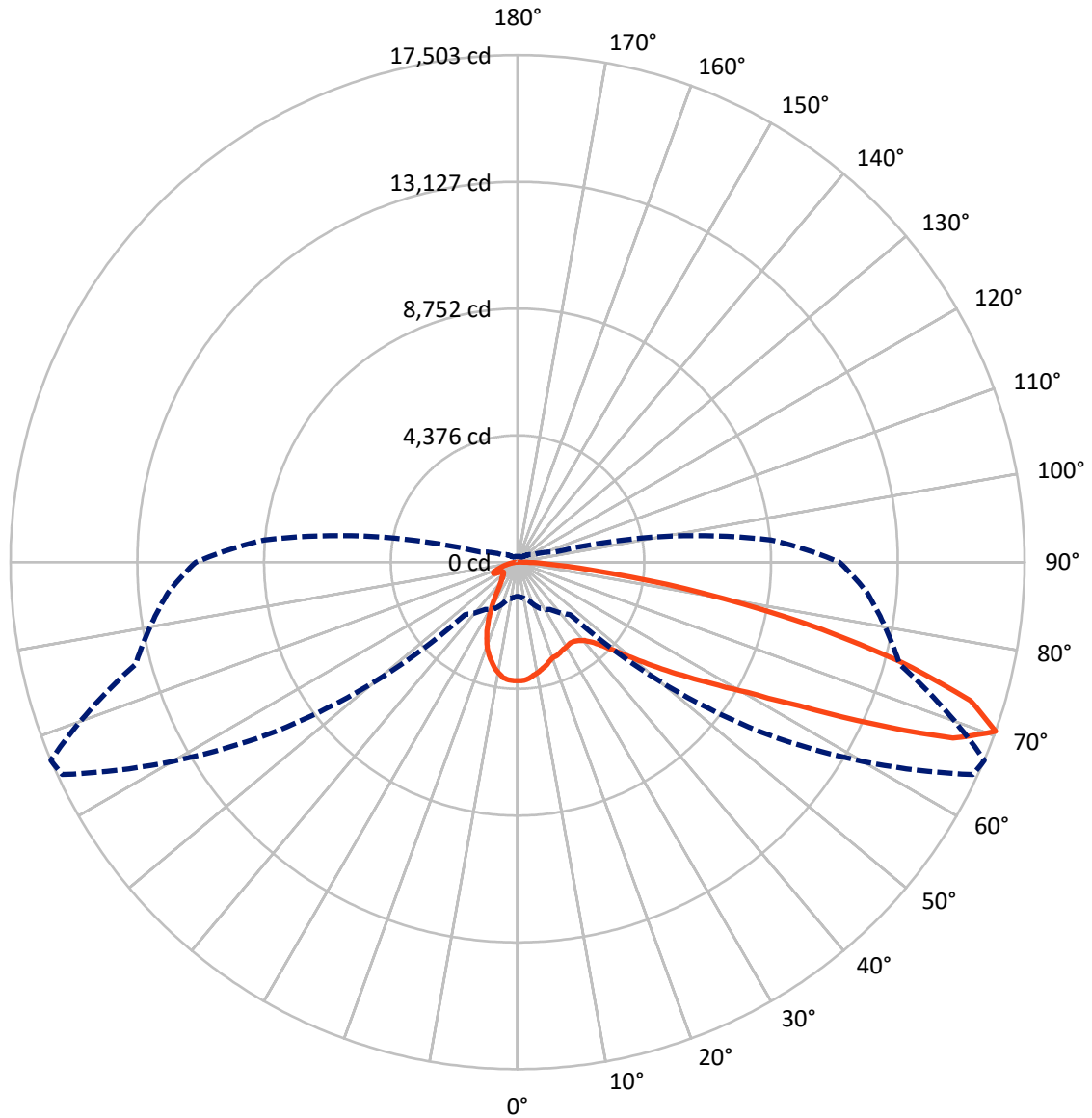
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3439.9	0.0	3439.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	14222.5	0.0	14222.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	17662.4	0.0	17662.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.8	2.0
10°-20°	854.4	4.8
20°-30°	1153.8	6.5
30°-40°	1543.9	8.7
40°-50°	2270.3	12.9
50°-60°	3538.8	20.0
60°-70°	4359.2	24.7
70°-80°	3080.2	17.4
80°-90°	504.9	2.9
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°	17662.4	100.0
0°-180°	17662.4	100.0

**Coefficient of Utilization**

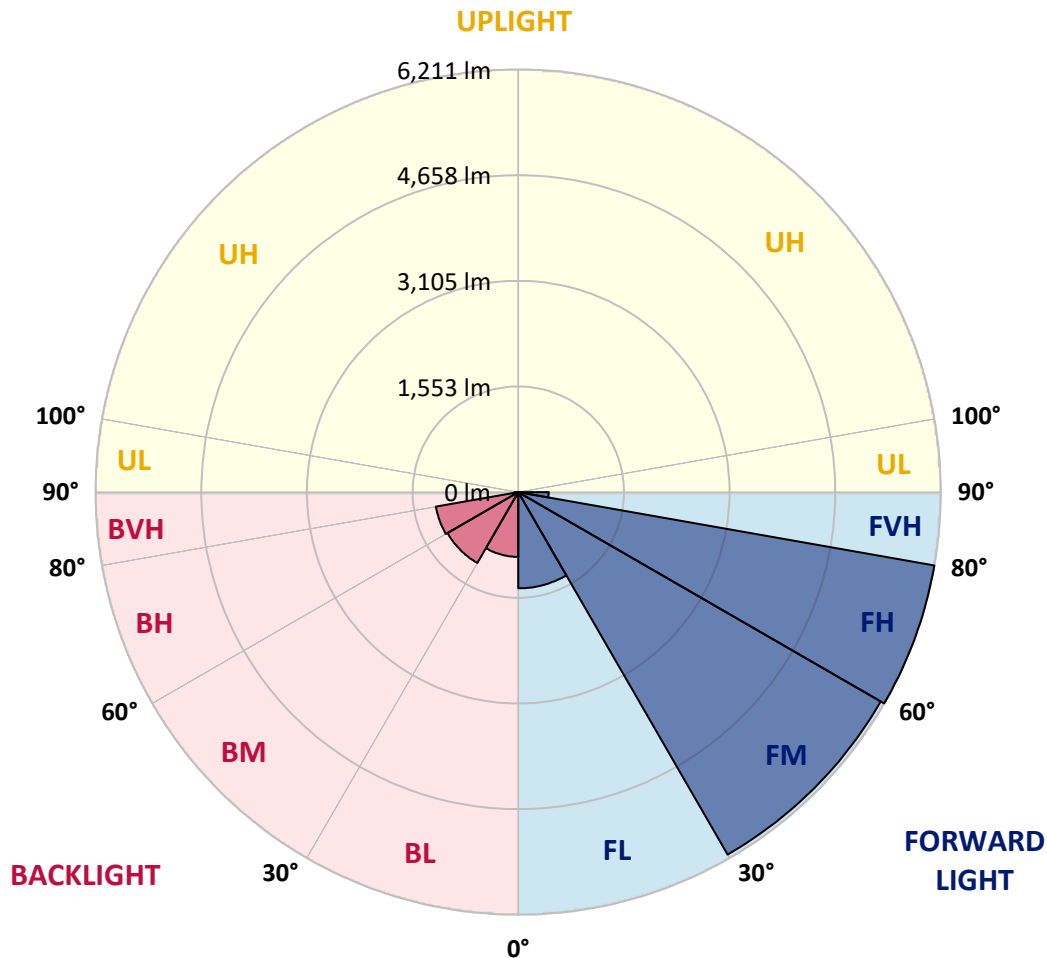


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.7	8.0			
FM (30°-60°)	6151.4	34.8			
FH (60°-80°)	6210.7	35.2			G3/7500
FVH (80°-90°)	446.6	2.5			G3/500
BL (0°-30°)	951.3	5.4	B2/1000		
BM (30°-60°)	1201.6	6.8	B2/2500		
BH (60°-80°)	1228.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	58.2	0.3			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8
2.5°	3807.2	3850.2	3865.9	3889.3	3949.9	3994.9	4022.3	4053.6	4090.7	4122.0	4141.6
5°	3541.3	3564.7	3601.9	3627.3	3703.6	3824.8	3906.9	4039.9	4036.0	4084.9	4159.2
7.5°	3283.1	3306.6	3324.2	3375.1	3484.6	3594.1	3744.6	3959.7	3944.1	4057.5	4172.9
10°	3122.8	3105.2	3111.1	3197.1	3283.1	3406.3	3596.0	3815.0	3871.7	4047.7	4212.0
12.5°	2972.2	2952.7	2999.6	3054.4	3160.0	3271.4	3498.2	3695.7	3781.8	4012.5	4229.6
15°	2878.4	2864.7	2923.4	2946.8	3072.0	3204.9	3365.3	3605.8	3699.7	3969.5	4202.2
17.5°	2825.6	2837.3	2858.8	2909.7	2989.8	3103.3	3279.2	3545.2	3586.2	3916.7	4196.3
20°	2835.4	2849.0	2851.0	2872.5	2927.3	3015.3	3195.2	3480.6	3508.0	3906.9	4212.0
22.5°	2913.6	2894.0	2901.8	2888.2	2903.8	2972.2	3130.6	3394.6	3500.2	3824.8	4178.7
25°	3030.9	3003.5	2999.6	2952.7	2923.4	2942.9	3118.9	3373.1	3441.5	3799.4	4176.8
27.5°	3238.2	3197.1	3197.1	3126.7	3007.4	2976.1	3085.7	3337.9	3398.5	3775.9	4131.8
30°	3437.6	3437.6	3439.6	3339.9	3206.9	3052.4	3099.3	3324.2	3363.3	3705.5	4071.2
32.5°	3680.1	3674.2	3664.5	3615.6	3410.3	3179.5	3165.8	3306.6	3326.2	3682.1	4053.6
35°	3916.7	3901.1	3977.3	3934.3	3725.1	3427.9	3234.3	3314.4	3357.5	3646.9	3998.8
37.5°	4094.6	4104.4	4262.8	4290.2	4110.3	3709.4	3427.9	3392.7	3433.7	3697.7	3998.8
40°	4325.4	4364.5	4513.1	4605.0	4495.5	4081.0	3734.9	3523.7	3553.0	3811.1	4084.9
42.5°	4628.5	4661.7	4851.4	4970.7	4939.4	4554.2	4037.9	3797.4	3774.0	4000.8	4213.9
45°	5029.3	5035.2	5226.8	5391.1	5455.6	5048.9	4519.0	4143.5	4124.0	4327.3	4450.5
47.5°	5506.5	5500.6	5619.9	5795.9	5969.9	5639.4	5072.4	4669.5	4599.1	4794.7	4843.6
50°	5967.9	5942.5	5969.9	6194.8	6529.1	6378.6	5745.0	5312.9	5242.5	5350.0	5434.1
52.5°	6222.1	6253.4	6179.1	6476.4	7123.6	7252.7	6636.7	6081.4	6020.7	6073.5	6220.2
55°	6044.2	6108.7	6059.8	6341.4	7383.7	8318.4	7790.4	6971.1	6892.9	6873.3	7113.8
57.5°	5287.5	5404.8	5414.6	5860.4	7293.7	9143.5	9413.4	8021.1	7903.8	7704.4	7952.7
60°	4059.5	4176.8	4266.7	4794.7	6523.3	9636.3	11294.5	9515.1	9127.9	8611.7	8760.3
62.5°	2845.1	2925.3	3015.3	3339.9	5029.3	9346.9	12921.4	11619.1	10905.4	9567.9	9753.6
65°	2072.7	2135.3	2227.2	2418.9	3089.6	7733.7	13676.2	14118.1	13441.6	10784.1	10760.7
67.5°	1560.4	1599.5	1720.8	2027.8	2141.2	4777.1	12894.0	16757.9	16210.4	12135.3	11570.2
70°	1181.1	1214.3	1327.7	1748.1	2000.4	2561.6	10172.1	17346.5	17503.0	13650.8	12113.8
72.5°	813.5	850.6	977.7	1456.8	1904.6	2031.7	6384.4	15758.7	16351.2	14274.6	11531.1
75°	498.6	524.1	598.4	1104.8	1890.9	1986.7	3513.9	12913.6	13541.3	13189.3	10088.0
77.5°	352.0	350.0	363.7	647.2	1638.6	1998.4	2166.6	9462.3	10072.4	9720.4	6845.9
80°	256.2	258.1	271.8	387.2	1112.6	2031.7	1707.1	6337.5	6519.4	5068.4	2700.4
82.5°	154.5	162.3	195.5	262.0	668.8	1834.2	1578.0	3521.7	3294.9	1626.9	743.1
85°	82.1	82.1	115.4	166.2	355.9	1368.8	1519.4	1675.8	1404.0	504.5	275.7
87.5°	19.6	19.6	33.2	66.5	142.7	655.1	1036.4	666.8	533.8	170.1	113.4
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°	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8	4088.8
2.5°	4133.8	4110.3	4139.6	4081.0	4034.0	4036.0	3963.6	3959.7	3949.9	3899.1	3916.7
5°	4180.7	4161.1	4127.9	4063.4	3959.7	3856.1	3793.5	3713.3	3680.1	3662.5	3670.3
7.5°	4225.7	4190.5	4094.6	4004.7	3844.4	3648.8	3535.4	3427.9	3291.0	3275.3	3248.0
10°	4237.4	4163.1	4039.9	3848.3	3635.1	3418.1	3160.0	2960.5	2854.9	2772.8	2741.5
12.5°	4219.8	4188.5	3951.9	3705.5	3382.9	3042.6	2741.5	2459.9	2264.4	2162.7	2135.3
15°	4217.8	4163.1	3854.1	3488.5	3075.9	2632.0	2203.8	1865.5	1660.2	1576.1	1576.1
17.5°	4219.8	4088.8	3738.8	3269.5	2714.1	2113.8	1642.6	1364.9	1251.5	1239.7	1249.5
20°	4180.7	4034.0	3617.5	3011.3	2260.5	1587.8	1192.8	1079.4	1079.4	1095.0	1100.9
22.5°	4145.5	3951.9	3425.9	2692.6	1799.0	1149.8	969.9	936.6	973.8	1001.2	1012.9
25°	4096.6	3883.5	3230.4	2362.1	1368.8	926.9	842.8	850.6	885.8	934.7	930.8
27.5°	4026.2	3764.2	2997.7	1978.9	1018.8	799.8	778.3	782.2	819.3	840.8	836.9
30°	3946.0	3642.9	2782.6	1597.6	807.6	733.3	731.3	741.1	747.0	758.7	756.7
32.5°	3844.4	3482.6	2553.8	1241.7	727.4	696.1	688.3	682.4	688.3	686.4	680.5
35°	3772.0	3396.6	2321.1	946.4	682.4	662.9	657.0	647.2	639.4	627.7	625.7
37.5°	3752.5	3310.5	2076.7	772.4	647.2	637.5	617.9	600.3	590.5	584.7	580.8
40°	3740.7	3253.8	1838.1	678.5	617.9	608.1	584.7	561.2	551.4	545.6	547.5
42.5°	3781.8	3222.5	1595.6	631.6	592.5	574.9	549.5	522.1	520.1	516.2	522.1
45°	3926.5	3261.6	1370.7	598.4	567.1	537.7	504.5	490.8	488.9	484.9	488.9
47.5°	4255.0	3359.4	1179.1	576.8	539.7	514.3	479.1	459.5	457.6	455.6	455.6
50°	4708.7	3660.5	1018.8	551.4	522.1	486.9	453.7	432.1	428.2	420.4	420.4
52.5°	5420.4	4167.0	923.0	537.7	490.8	461.5	426.3	402.8	393.0	385.2	385.2
55°	6222.1	4794.7	905.4	514.3	457.6	430.2	398.9	375.4	365.7	355.9	352.0
57.5°	7135.3	5625.7	1030.5	498.6	434.1	398.9	363.7	342.2	334.4	324.6	320.7
60°	7985.9	6454.8	1419.6	475.2	412.6	369.6	334.4	312.9	303.1	293.3	293.3
62.5°	8969.5	7481.4	2078.6	475.2	393.0	338.3	303.1	287.4	281.6	271.8	269.8
65°	10133.0	8543.2	2559.6	504.5	387.2	310.9	273.8	258.1	252.2	246.4	244.4
67.5°	11018.8	9153.3	2201.8	582.7	412.6	287.4	244.4	234.7	230.7	224.9	221.0
70°	11112.7	8781.8	1327.7	629.6	438.0	264.0	219.0	209.2	209.2	203.4	199.5
72.5°	10269.9	7792.3	893.6	561.2	397.0	236.6	193.6	185.8	181.9	177.9	176.0
75°	8594.1	6609.3	705.9	447.8	305.0	195.5	168.2	160.3	154.5	152.5	148.6
77.5°	5772.4	4296.1	522.1	350.0	224.9	158.4	140.8	133.0	127.1	125.1	119.3
80°	2217.4	1636.7	336.3	254.2	158.4	125.1	111.5	103.6	99.7	93.9	89.9
82.5°	653.1	529.9	187.7	156.4	101.7	86.0	80.2	74.3	68.4	62.6	60.6
85°	269.8	242.5	115.4	82.1	62.6	50.8	46.9	41.1	35.2	31.3	27.4
87.5°	125.1	103.6	52.8	31.3	21.5	11.7	5.9	2.0	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)