

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: P480382

Luminaire Tested: **IFLD-S-SA3D-727-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480382  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

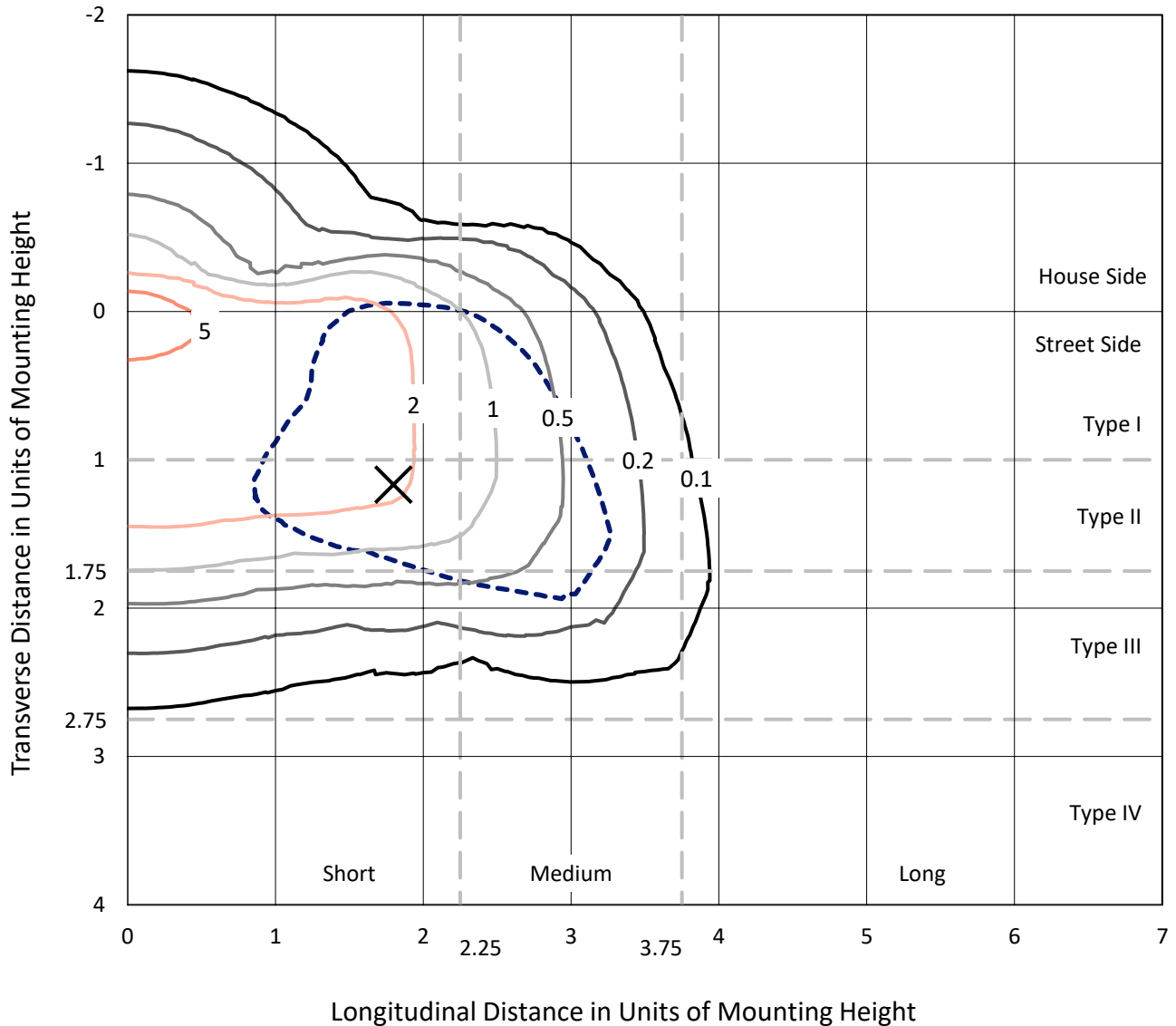
Lumens per Lamp: N/A  
Luminaire Lumens: 19232.9 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
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

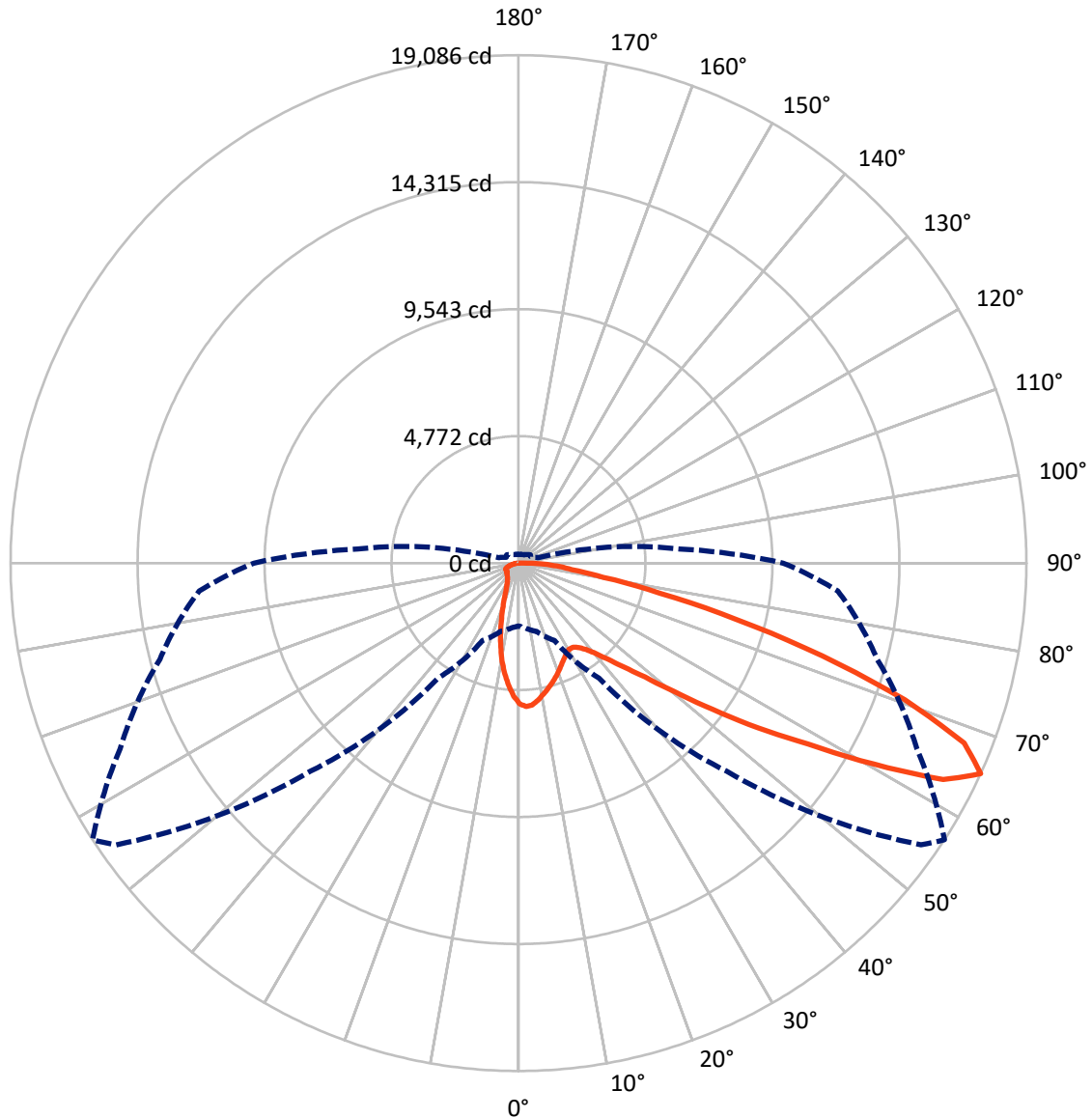
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2949.6	0.0	2949.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	16283.4	0.0	16283.4
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	19232.9	0.0	19232.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.9	2.3
10°-20°	953.2	5.0
20°-30°	1232.4	6.4
30°-40°	1658.4	8.6
40°-50°	2644.4	13.7
50°-60°	4670.6	24.3
60°-70°	5138.2	26.7
70°-80°	2149.4	11.2
80°-90°	343.5	1.8
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°	19232.9	100.0
0°-180°	19232.9	100.0

**Coefficient of Utilization**



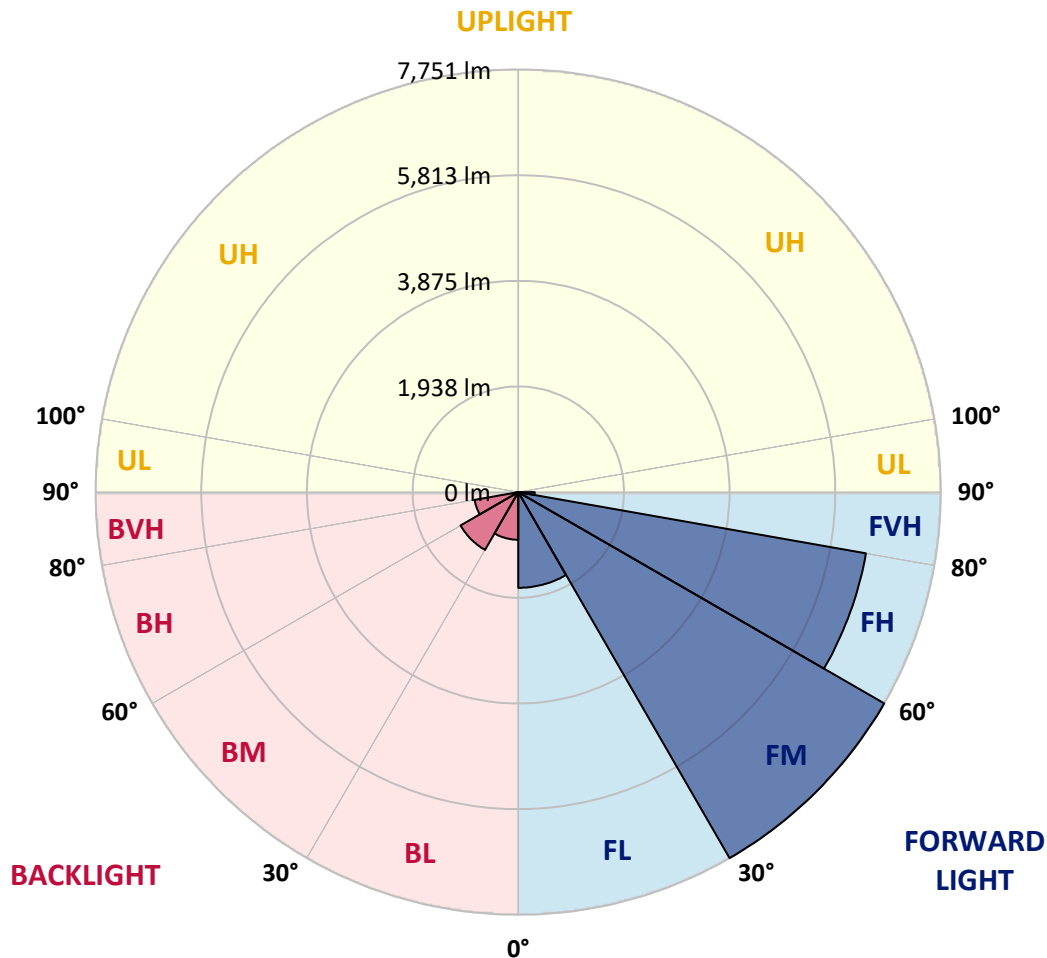
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1754.9	9.1			
FM (30°-60°)	7750.8	40.3			
FH (60°-80°)	6474.4	33.7			G3/7500
FVH (80°-90°)	303.2	1.6			G3/500
BL (0°-30°)	873.5	4.5	B2/1000		
BM (30°-60°)	1222.5	6.4	B2/2500		
BH (60°-80°)	813.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	40.3	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8
2.5°	5431.6	5440.3	5440.3	5457.6	5399.1	5427.3	5422.9	5397.0	5405.6	5360.2	5314.7
5°	5278.0	5271.5	5306.1	5310.4	5355.9	5368.8	5379.7	5362.4	5366.7	5267.1	5223.9
7.5°	4884.1	4882.0	4940.4	4990.1	5085.4	5174.1	5232.5	5215.2	5239.0	5176.3	5074.5
10°	4416.7	4466.5	4527.1	4576.8	4752.1	4864.6	5016.1	5031.3	5122.2	5107.0	4923.1
12.5°	4066.1	4087.8	4133.2	4276.0	4436.2	4622.3	4838.7	4858.1	4946.9	4990.1	4830.0
15°	3778.3	3797.8	3856.2	3962.3	4141.9	4362.6	4637.4	4687.2	4864.6	4879.8	4708.8
17.5°	3568.4	3583.6	3622.5	3728.5	3875.7	4159.2	4418.9	4507.6	4741.3	4814.9	4583.3
20°	3486.2	3453.7	3475.4	3542.4	3689.6	3908.2	4243.6	4321.5	4620.1	4765.1	4464.3
22.5°	3449.4	3421.3	3434.2	3429.9	3546.8	3702.6	4055.3	4137.5	4505.4	4706.7	4358.3
25°	3477.5	3477.5	3464.5	3453.7	3466.7	3568.4	3851.9	3979.6	4351.8	4656.9	4250.1
27.5°	3629.0	3570.6	3577.1	3531.6	3518.6	3518.6	3761.0	3836.7	4302.0	4628.8	4161.3
30°	3726.4	3754.5	3756.7	3689.6	3622.5	3501.3	3676.6	3750.2	4260.9	4663.4	4109.4
32.5°	3975.2	3962.3	3925.5	3912.5	3812.9	3676.6	3717.7	3767.5	4237.1	4741.3	4124.6
35°	4224.1	4217.6	4219.8	4213.3	4109.4	3908.2	3828.1	3895.2	4280.4	4877.6	4176.5
37.5°	4481.6	4498.9	4572.5	4572.5	4462.1	4243.6	4137.5	4118.1	4438.3	5100.5	4299.8
40°	4739.1	4782.4	4875.5	5022.6	4866.8	4663.4	4492.4	4462.1	4628.8	5399.1	4596.3
42.5°	4985.8	5057.2	5241.2	5459.7	5407.8	5204.4	4977.2	4942.5	5020.4	5842.8	5009.6
45°	5301.8	5362.4	5652.3	5987.7	6059.2	5879.5	5613.4	5585.2	5580.9	6492.0	5578.8
47.5°	5782.2	5847.1	6137.1	6474.6	6695.4	6723.5	6424.9	6394.6	6290.7	7368.4	6411.9
50°	6383.8	6489.8	6734.3	7128.2	7448.4	7749.2	7664.8	7576.1	7372.7	8387.6	7467.9
52.5°	6823.0	6952.9	7284.0	7788.2	8353.0	8831.2	9134.2	9134.2	8666.8	9506.4	8738.2
55°	6939.9	7017.8	7435.5	8164.7	9132.0	10341.7	10975.7	10928.1	10207.5	10683.6	10216.2
57.5°	6474.6	6576.4	7082.7	7846.6	9541.0	11754.8	12804.3	12815.1	11891.1	12051.2	11674.7
60°	5193.6	5226.0	5823.3	6844.7	9147.2	12893.0	15301.5	15342.7	13806.2	13269.6	12416.9
62.5°	3590.1	3693.9	4144.0	5039.9	7578.3	12765.3	17710.1	17913.5	15340.5	13912.3	12533.8
65°	2363.1	2425.8	2666.0	3211.4	5275.8	11064.5	18458.8	19086.3	16513.4	13949.0	12044.7
67.5°	1713.9	1724.7	1796.1	2077.4	3170.2	7957.0	17179.9	18064.9	16952.7	13641.8	10897.8
70°	1385.0	1393.6	1419.6	1599.2	2047.1	4979.3	14011.8	15398.9	15634.8	12185.4	8777.1
72.5°	1125.3	1136.1	1168.6	1337.3	1687.9	2769.9	10246.5	11936.5	12717.7	9015.2	5834.1
75°	885.1	893.7	971.6	1138.3	1586.2	1902.1	6797.1	8452.5	8558.6	5269.3	2730.9
77.5°	605.9	621.1	716.3	965.1	1493.1	1664.1	4237.1	5414.3	4858.1	2062.3	939.2
80°	385.2	406.8	463.1	731.4	1320.0	1588.4	2635.7	3233.0	2127.2	705.5	452.3
82.5°	227.2	248.9	305.1	473.9	1036.5	1473.7	1856.7	2023.3	997.6	361.4	272.7
85°	125.5	140.7	183.9	285.6	608.1	1309.2	1486.7	1452.0	571.3	192.6	171.0
87.5°	41.1	47.6	67.1	114.7	251.0	616.7	891.6	837.5	296.5	88.7	67.1
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°	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8	5288.8
2.5°	5284.5	5278.0	5180.6	5107.0	4981.5	4877.6	4836.5	4780.2	4778.1	4737.0	4726.1
5°	5156.8	5089.7	4940.4	4797.6	4574.7	4425.3	4289.0	4193.8	4154.9	4070.5	4051.0
7.5°	4992.3	4903.6	4674.2	4405.9	4144.0	3910.3	3698.3	3486.2	3367.2	3326.0	3280.6
10°	4821.4	4665.6	4325.8	4025.0	3659.3	3300.1	2966.8	2668.2	2505.9	2391.2	2341.4
12.5°	4685.0	4477.3	4044.5	3594.4	3111.8	2631.4	2244.1	1930.3	1746.3	1659.8	1620.8
15°	4531.4	4256.6	3737.2	3168.1	2566.5	2021.2	1642.5	1395.8	1322.2	1281.1	1274.6
17.5°	4369.1	4051.0	3403.9	2748.3	2034.1	1521.3	1276.8	1177.2	1144.7	1127.4	1118.8
20°	4217.6	3867.0	3062.0	2280.8	1592.7	1220.5	1105.8	1053.9	1051.7	1060.4	1058.2
22.5°	4003.4	3626.8	2724.5	1848.0	1272.4	1062.5	988.9	976.0	988.9	999.8	1004.1
25°	3882.2	3429.9	2347.9	1467.2	1051.7	943.5	919.7	915.4	934.8	947.8	945.7
27.5°	3756.7	3226.5	1997.4	1175.0	921.9	859.1	854.8	859.1	878.6	898.1	895.9
30°	3659.3	3064.2	1668.4	982.4	822.3	798.5	794.2	798.5	809.3	811.5	811.5
32.5°	3579.2	2871.6	1389.3	852.6	761.7	742.2	746.6	744.4	746.6	748.7	750.9
35°	3531.6	2756.9	1159.9	772.5	712.0	696.8	694.6	688.1	690.3	692.5	690.3
37.5°	3633.3	2700.7	978.1	716.3	677.3	664.3	660.0	655.7	649.2	649.2	649.2
40°	3787.0	2670.4	867.8	679.5	651.4	636.2	623.2	618.9	618.9	621.1	623.2
42.5°	4092.1	2720.1	792.0	651.4	618.9	601.6	588.6	590.8	597.3	603.8	599.4
45°	4533.5	2871.6	757.4	629.7	599.4	575.6	567.0	564.8	571.3	582.1	590.8
47.5°	5111.3	3107.5	744.4	610.2	586.4	554.0	543.2	549.7	558.3	573.5	567.0
50°	6057.0	3637.7	755.2	592.9	567.0	543.2	530.2	523.7	530.2	541.0	545.3
52.5°	7292.6	4600.6	796.3	584.3	554.0	534.5	512.9	502.0	508.5	517.2	517.2
55°	8770.6	5916.3	911.0	573.5	532.3	521.5	497.7	476.1	480.4	480.4	478.2
57.5°	10073.4	6909.6	1047.4	558.3	519.4	504.2	473.9	447.9	443.6	445.8	447.9
60°	10657.6	7173.6	1112.3	554.0	519.4	482.6	441.5	415.5	409.0	404.7	404.7
62.5°	10555.9	6717.0	980.3	534.5	532.3	465.3	411.2	383.0	374.4	365.7	367.9
65°	9941.3	6065.7	772.5	508.5	534.5	454.4	380.9	352.7	337.6	326.8	324.6
67.5°	8818.2	5178.4	612.4	489.1	512.9	435.0	354.9	322.4	309.4	298.6	294.3
70°	6898.8	4059.6	532.3	463.1	460.9	387.4	324.6	296.5	277.0	264.0	264.0
72.5°	4473.0	2566.5	456.6	411.2	398.2	324.6	281.3	264.0	248.9	238.0	238.0
75°	2025.5	1192.4	367.9	344.1	324.6	259.7	238.0	229.4	216.4	205.6	205.6
77.5°	727.1	508.5	274.8	270.5	242.4	201.3	192.6	186.1	177.4	166.6	166.6
80°	406.8	322.4	205.6	196.9	168.8	149.3	138.5	138.5	134.2	127.7	125.5
82.5°	257.5	209.9	151.5	132.0	110.4	99.5	95.2	93.1	90.9	82.2	80.1
85°	162.3	142.8	99.5	77.9	64.9	49.8	47.6	45.4	41.1	36.8	36.8
87.5°	73.6	82.2	39.0	23.8	17.3	10.8	6.5	2.2	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)