

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: P480400

Luminaire Tested: **IFLD-M-SA4B-727-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480400  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

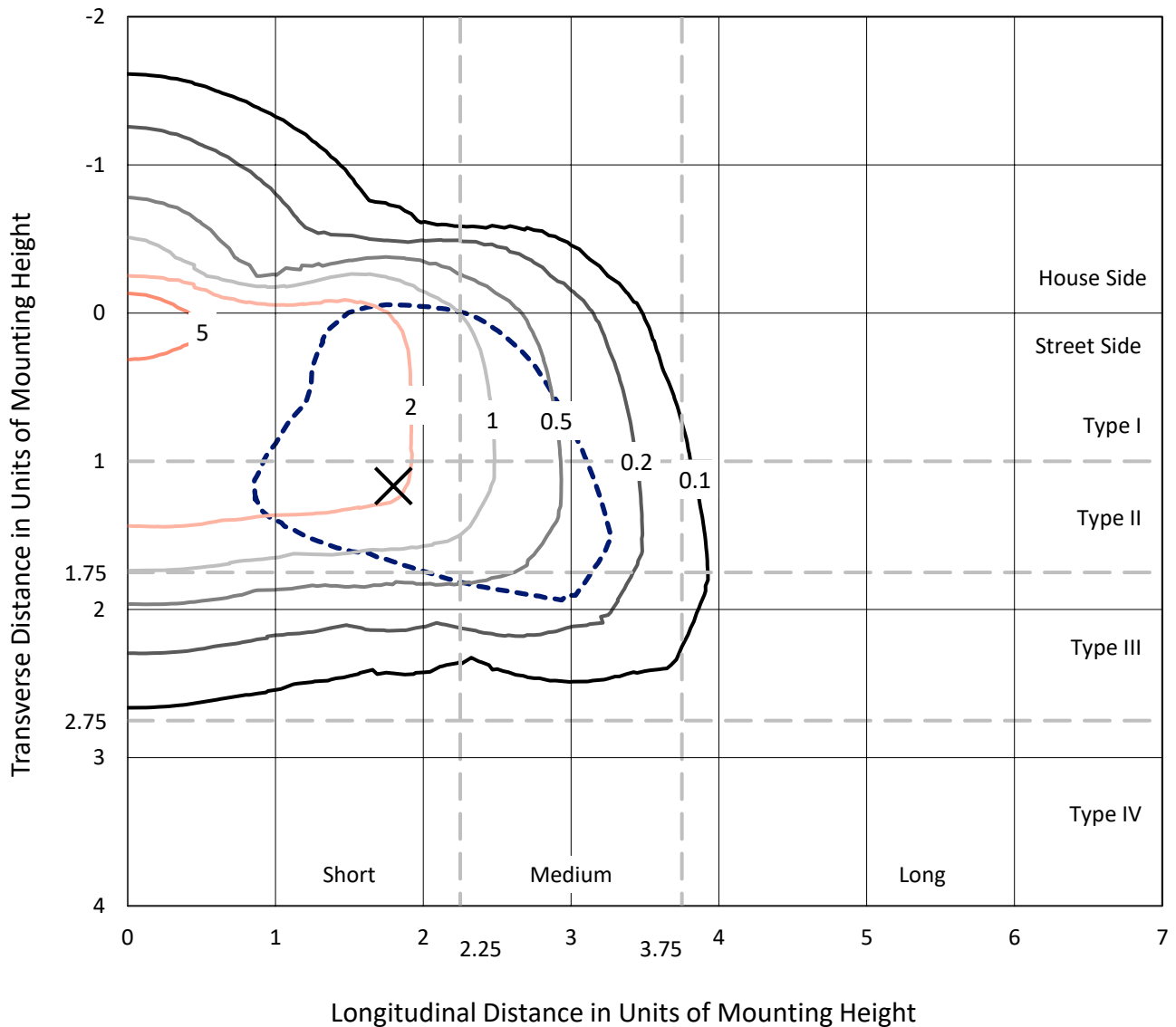
Lumens per Lamp: N/A  
Luminaire Lumens: 18847.1 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1  
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

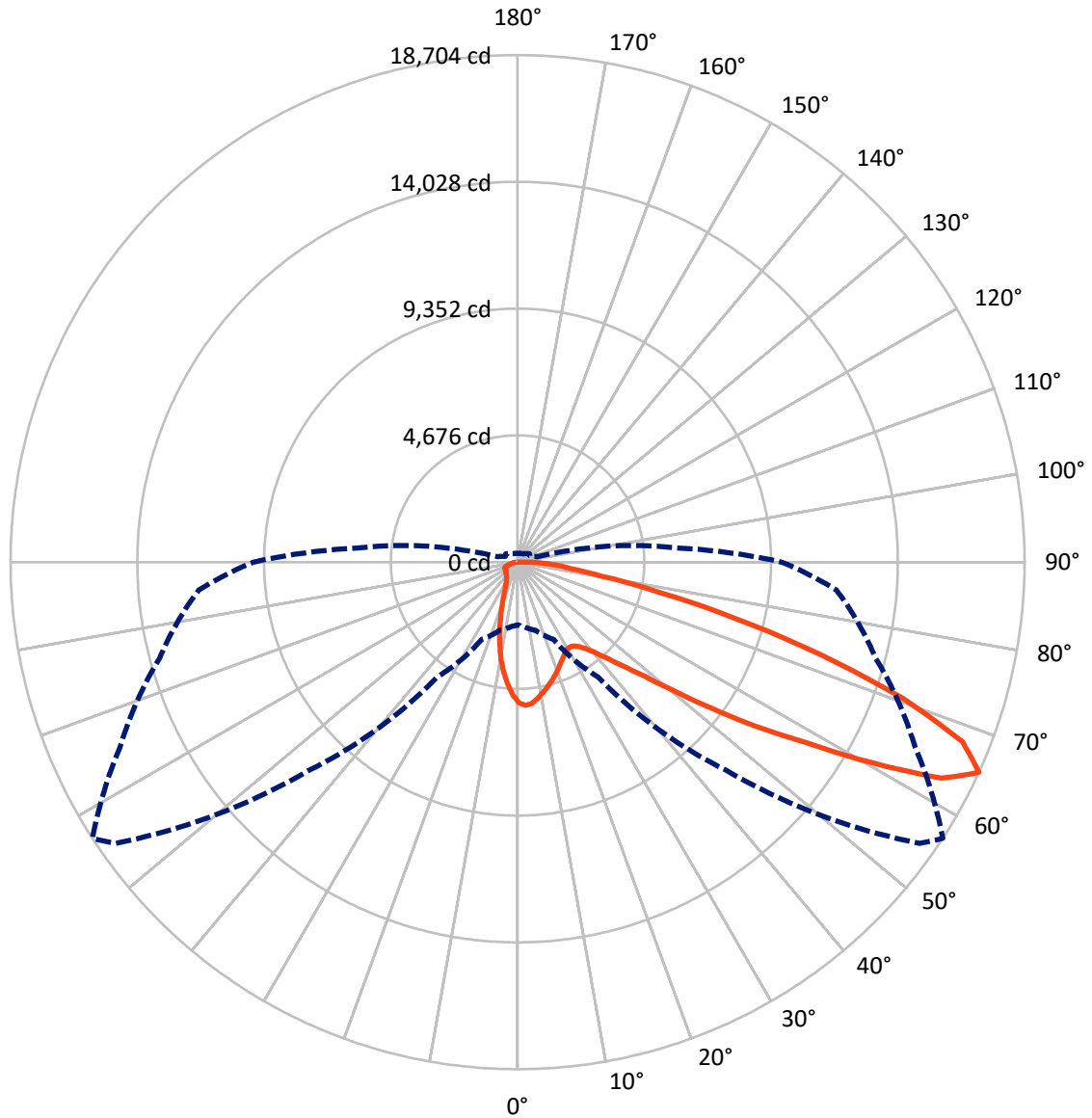
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	2890.4	0.0	2890.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	15956.7	0.0	15956.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	18847.1	0.0	18847.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.0	2.3
10°-20°	934.1	5.0
20°-30°	1207.7	6.4
30°-40°	1625.1	8.6
40°-50°	2591.3	13.7
50°-60°	4576.9	24.3
60°-70°	5035.2	26.7
70°-80°	2106.3	11.2
80°-90°	336.6	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°	18847.1	100.0
0°-180°	18847.1	100.0

**Coefficient of Utilization**



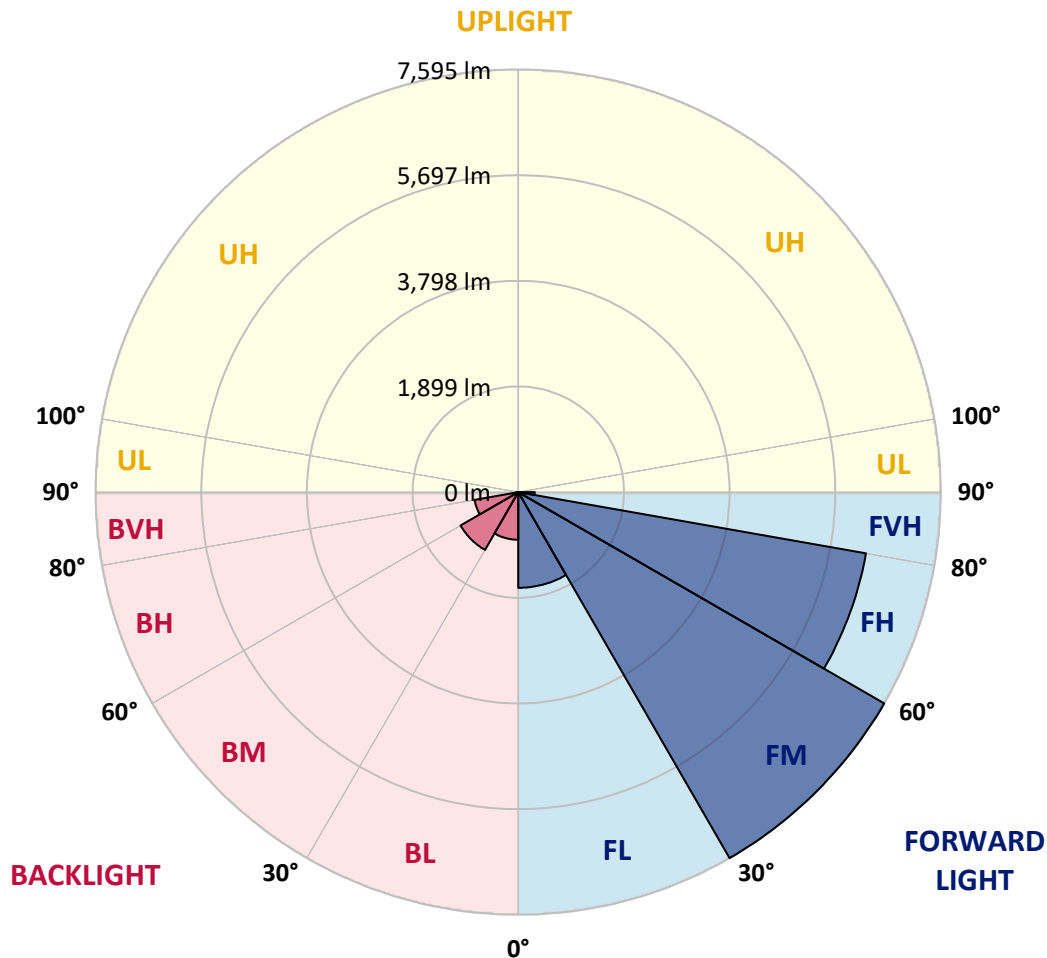
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 CATALOG NUMBER: IFLD-M-SA4B-727-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1719.7	9.1			
FM (30°-60°)	7595.3	40.3			
FH (60°-80°)	6344.5	33.7			G3/7500
FVH (80°-90°)	297.1	1.6			G3/500
BL (0°-30°)	856.0	4.5	B2/1000		
BM (30°-60°)	1197.9	6.4	B2/2500		
BH (60°-80°)	797.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	39.5	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°	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7
2.5°	5322.6	5331.1	5331.1	5348.1	5290.8	5318.4	5314.2	5288.7	5297.2	5252.7	5208.1
5°	5172.1	5165.7	5199.6	5203.9	5248.4	5261.1	5271.7	5254.8	5259.0	5161.5	5119.1
7.5°	4786.1	4784.0	4841.3	4890.0	4983.3	5070.3	5127.5	5110.6	5133.9	5072.4	4972.7
10°	4328.1	4376.9	4436.2	4485.0	4656.8	4767.0	4915.5	4930.3	5019.4	5004.6	4824.3
12.5°	3984.6	4005.8	4050.3	4190.3	4347.2	4529.5	4741.6	4760.7	4847.6	4890.0	4733.1
15°	3702.5	3721.6	3778.9	3882.8	4058.8	4275.1	4544.4	4593.2	4767.0	4781.9	4614.4
17.5°	3496.8	3511.7	3549.8	3653.7	3797.9	4075.7	4330.2	4417.2	4646.2	4718.3	4491.4
20°	3416.2	3384.4	3405.6	3471.4	3615.6	3829.8	4158.4	4234.8	4527.4	4669.5	4374.7
22.5°	3380.2	3352.6	3365.3	3361.1	3475.6	3628.3	3974.0	4054.5	4415.0	4612.2	4270.8
25°	3407.8	3407.8	3395.0	3384.4	3397.2	3496.8	3774.6	3899.7	4264.5	4563.5	4164.8
27.5°	3556.2	3498.9	3505.3	3460.8	3448.1	3448.1	3685.6	3759.8	4215.7	4535.9	4077.9
30°	3651.6	3679.2	3681.3	3615.6	3549.8	3431.1	3602.9	3675.0	4175.4	4569.8	4027.0
32.5°	3895.5	3882.8	3846.7	3834.0	3736.4	3602.9	3643.1	3691.9	4152.1	4646.2	4041.8
35°	4139.4	4133.0	4135.1	4128.8	4027.0	3829.8	3751.3	3817.0	4194.5	4779.8	4092.7
37.5°	4391.7	4408.7	4480.8	4480.8	4372.6	4158.4	4054.5	4035.5	4349.3	4998.2	4213.6
40°	4644.1	4686.5	4777.7	4921.9	4769.2	4569.8	4402.3	4372.6	4535.9	5290.8	4504.1
42.5°	4885.8	4955.8	5136.0	5350.2	5299.3	5100.0	4877.3	4843.4	4919.7	5725.5	4909.1
45°	5195.4	5254.8	5538.9	5867.6	5937.6	5761.6	5500.8	5473.2	5469.0	6361.7	5466.8
47.5°	5666.2	5729.8	6013.9	6344.8	6561.1	6588.6	6296.0	6266.3	6164.5	7220.6	6283.3
50°	6255.7	6359.6	6599.2	6985.2	7299.0	7593.8	7511.1	7424.1	7224.8	8219.3	7318.1
52.5°	6686.2	6813.4	7137.8	7631.9	8185.4	8654.1	8950.9	8950.9	8492.9	9315.7	8562.9
55°	6800.7	6877.0	7286.3	8000.9	8948.8	10134.2	10755.5	10708.9	10002.7	10469.3	10011.2
57.5°	6344.8	6444.4	6940.6	7689.2	9349.6	11519.0	12547.4	12558.0	11652.5	11809.5	11440.5
60°	5089.4	5121.2	5706.5	6707.4	8963.7	12634.4	14994.6	15034.9	13529.3	13003.4	12167.8
62.5°	3518.0	3619.8	4060.9	4938.8	7426.2	12509.3	17354.8	17554.1	15032.7	13633.2	12282.4
65°	2315.7	2377.2	2612.5	3146.9	5170.0	10842.5	18088.5	18703.5	16182.1	13669.2	11803.1
67.5°	1679.5	1690.1	1760.1	2035.8	3106.6	7797.3	16835.2	17702.5	16612.6	13368.1	10679.2
70°	1357.2	1365.6	1391.1	1567.1	2006.1	4879.4	13730.7	15090.0	15321.1	11940.9	8601.0
72.5°	1102.7	1113.3	1145.1	1310.5	1654.0	2714.3	10040.9	11697.1	12462.6	8834.3	5717.1
75°	867.3	875.8	952.1	1115.4	1554.4	1864.0	6660.7	8283.0	8386.9	5163.6	2676.2
77.5°	593.8	608.6	701.9	945.8	1463.2	1630.7	4152.1	5305.7	4760.7	2020.9	920.3
80°	377.5	398.7	453.8	716.8	1293.5	1556.5	2582.9	3168.1	2084.5	691.3	443.2
82.5°	222.7	243.9	299.0	464.4	1015.8	1444.1	1819.5	1982.7	977.6	354.1	267.2
85°	123.0	137.8	180.2	279.9	595.9	1282.9	1456.8	1422.9	559.8	188.7	167.5
87.5°	40.3	46.7	65.7	112.4	246.0	604.4	873.7	820.7	290.5	86.9	65.7
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°	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7	5182.7
2.5°	5178.4	5172.1	5076.7	5004.6	4881.6	4779.8	4739.5	4684.3	4682.2	4641.9	4631.3
5°	5053.3	4987.6	4841.3	4701.3	4482.9	4336.6	4203.0	4109.7	4071.5	3988.8	3969.7
7.5°	4892.2	4805.2	4580.4	4317.5	4060.9	3831.9	3624.1	3416.2	3299.6	3259.3	3214.8
10°	4724.6	4572.0	4239.0	3944.3	3585.9	3233.9	2907.3	2614.7	2455.6	2343.2	2294.5
12.5°	4591.0	4387.5	3963.4	3522.3	3049.4	2578.6	2199.0	1891.6	1711.3	1626.5	1588.3
15°	4440.5	4171.2	3662.2	3104.5	2515.0	1980.6	1609.5	1367.8	1295.7	1255.4	1249.0
17.5°	4281.4	3969.7	3335.7	2693.1	1993.3	1490.8	1251.1	1153.6	1121.8	1104.8	1096.3
20°	4133.0	3789.5	3000.6	2235.1	1560.7	1196.0	1083.6	1032.7	1030.6	1039.1	1037.0
22.5°	3923.1	3554.1	2669.8	1811.0	1246.9	1041.2	969.1	956.4	969.1	979.7	983.9
25°	3804.3	3361.1	2300.8	1437.7	1030.6	924.6	901.2	897.0	916.1	928.8	926.7
27.5°	3681.3	3161.8	1957.3	1151.5	903.4	841.9	837.6	841.9	861.0	880.0	877.9
30°	3585.9	3002.7	1635.0	962.7	805.8	782.5	778.3	782.5	793.1	795.2	795.2
32.5°	3507.4	2814.0	1361.4	835.5	746.4	727.4	731.6	729.5	731.6	733.7	735.8
35°	3460.8	2701.6	1136.6	757.0	697.7	682.8	680.7	674.3	676.5	678.6	676.5
37.5°	3560.4	2646.5	958.5	701.9	663.7	651.0	646.8	642.5	636.2	636.2	636.2
40°	3711.0	2616.8	850.3	665.9	638.3	623.4	610.7	606.5	606.5	608.6	610.7
42.5°	4010.0	2665.6	776.1	638.3	606.5	589.5	576.8	578.9	585.3	591.6	587.4
45°	4442.6	2814.0	742.2	617.1	587.4	564.1	555.6	553.5	559.8	570.4	578.9
47.5°	5008.8	3045.1	729.5	598.0	574.7	542.9	532.3	538.6	547.1	562.0	555.6
50°	5935.5	3564.7	740.1	581.0	555.6	532.3	519.5	513.2	519.5	530.1	534.4
52.5°	7146.3	4508.3	780.4	572.6	542.9	523.8	502.6	492.0	498.3	506.8	506.8
55°	8594.7	5797.6	892.8	562.0	521.7	511.1	487.7	466.5	470.8	470.8	468.6
57.5°	9871.3	6771.0	1026.4	547.1	508.9	494.1	464.4	439.0	434.7	436.8	439.0
60°	10443.8	7029.7	1090.0	542.9	508.9	472.9	432.6	407.2	400.8	396.5	396.5
62.5°	10344.2	6582.3	960.6	523.8	521.7	455.9	402.9	375.3	366.9	358.4	360.5
65°	9741.9	5944.0	757.0	498.3	523.8	445.3	373.2	345.7	330.8	320.2	318.1
67.5°	8641.3	5074.5	600.1	479.2	502.6	426.2	347.8	316.0	303.2	292.6	288.4
70°	6760.4	3978.2	521.7	453.8	451.7	379.6	318.1	290.5	271.4	258.7	258.7
72.5°	4383.2	2515.0	447.4	402.9	390.2	318.1	275.7	258.7	243.9	233.3	233.3
75°	1984.9	1168.4	360.5	337.2	318.1	254.5	233.3	224.8	212.1	201.5	201.5
77.5°	712.5	498.3	269.3	265.1	237.5	197.2	188.7	182.4	173.9	163.3	163.3
80°	398.7	316.0	201.5	193.0	165.4	146.3	135.7	135.7	131.5	125.1	123.0
82.5°	252.3	205.7	148.4	129.4	108.1	97.5	93.3	91.2	89.1	80.6	78.5
85°	159.0	140.0	97.5	76.3	63.6	48.8	46.7	44.5	40.3	36.0	36.0
87.5°	72.1	80.6	38.2	23.3	17.0	10.6	6.4	2.1	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)