

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: P480773

Luminaire Tested: **IFLD-S-SA3E-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480773  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

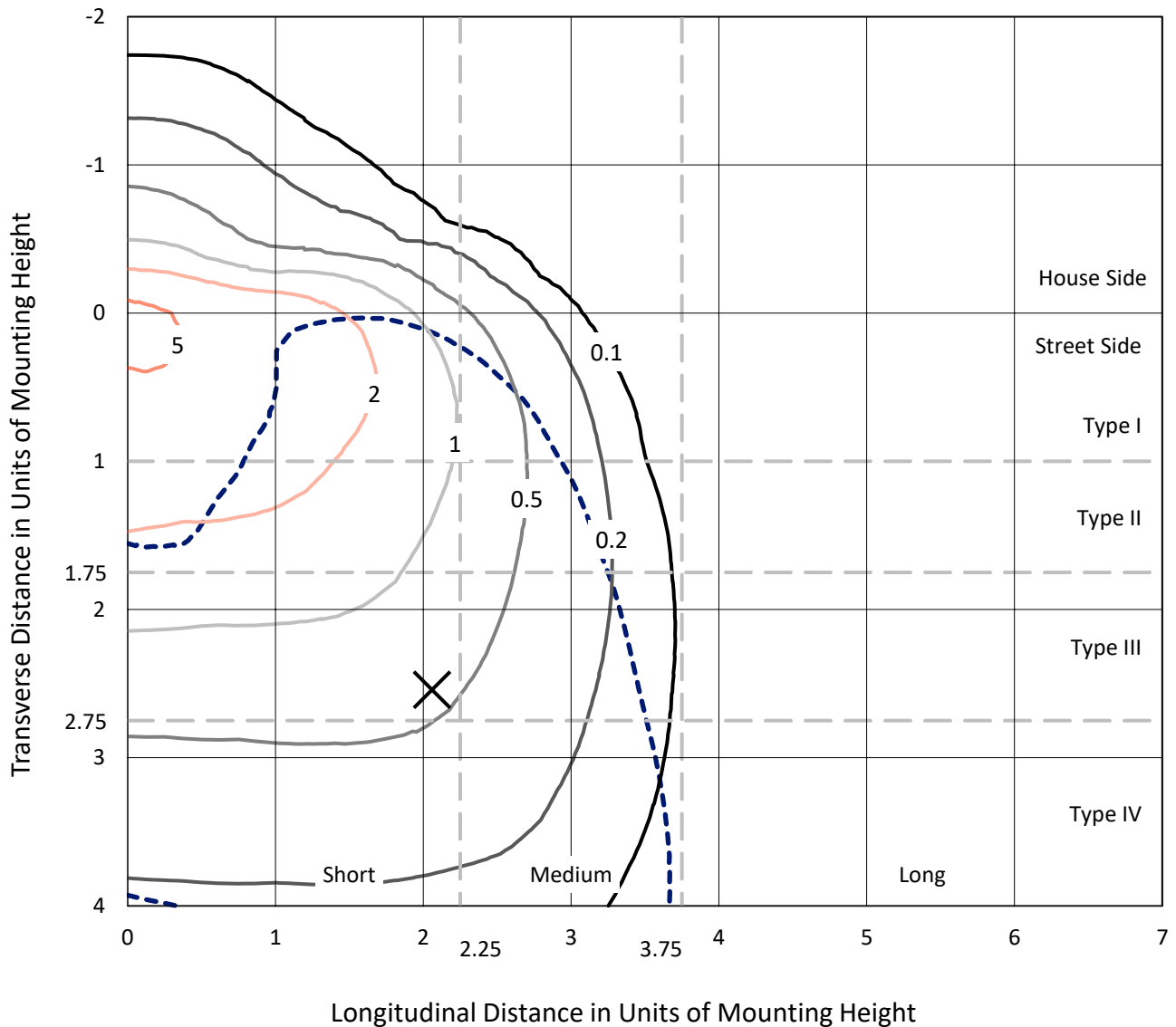
Lumens per Lamp: N/A  
Luminaire Lumens: 21819.7 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 232.1  
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

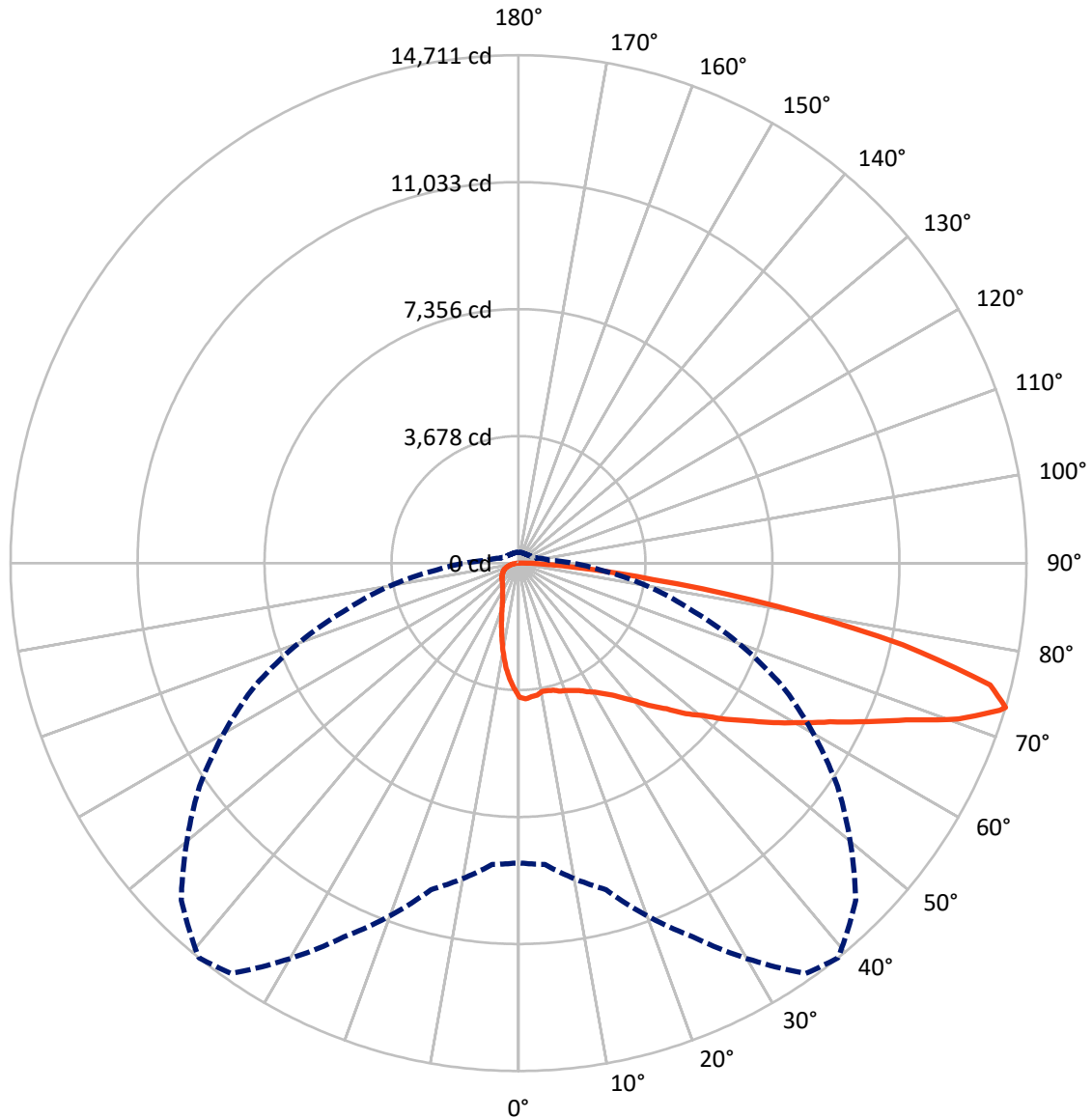
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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
<b>House Side</b>	Lumens	3067.2	0.0	3067.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	18752.5	0.0	18752.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	21819.7	0.0	21819.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.2	1.5
10°-20°	857.1	3.9
20°-30°	1309.8	6.0
30°-40°	1909.7	8.8
40°-50°	2885.7	13.2
50°-60°	4178.7	19.2
60°-70°	5309.3	24.3
70°-80°	4304.0	19.7
80°-90°	728.2	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°	21819.7	100.0
0°-180°	21819.7	100.0

**Coefficient of Utilization**



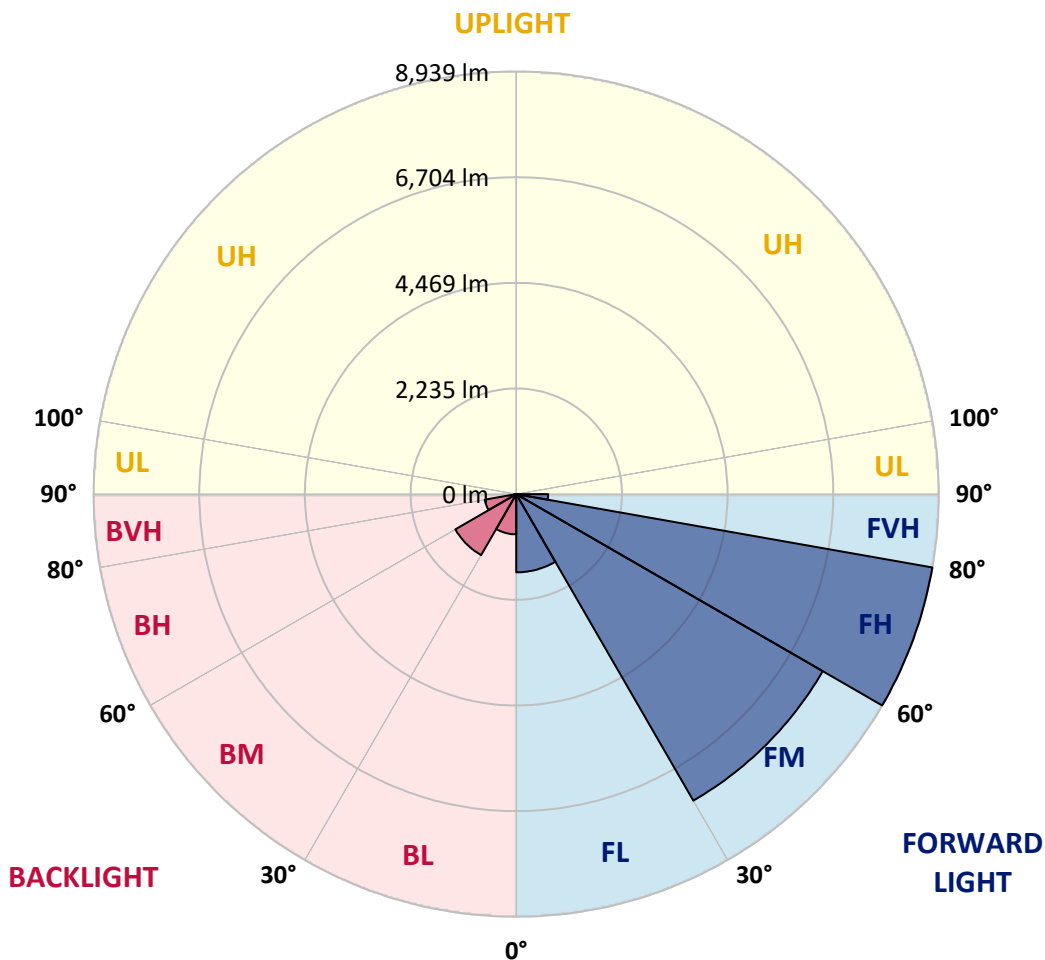
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1653.5	7.6			
FM (30°-60°)	7485.6	34.3			
FH (60°-80°)	8938.7	41.0			G4/12000
FVH (80°-90°)	674.8	3.1			G4/750
BL (0°-30°)	850.6	3.9	B2/1000		
BM (30°-60°)	1488.6	6.8	B2/2500		
BH (60°-80°)	674.6	3.1	B2/1000		G2/1000
BVH (80°-90°)	53.4	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°	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0
2.5°	3976.8	3935.3	3942.6	3928.0	3942.6	3937.8	3930.4	3893.8	3930.4	3893.8	3884.0
5°	3923.1	3923.1	3947.5	3910.9	3915.8	3891.4	3915.8	3888.9	3864.5	3803.5	3786.4
7.5°	3906.0	3903.6	3906.0	3854.7	3879.2	3864.5	3840.1	3810.8	3762.0	3722.9	3666.8
10°	3788.8	3813.2	3786.4	3801.0	3820.6	3776.6	3774.2	3766.9	3744.9	3693.6	3659.4
12.5°	3725.4	3766.9	3781.5	3769.3	3786.4	3791.3	3776.6	3766.9	3740.0	3705.8	3608.2
15°	3752.2	3703.4	3744.9	3825.5	3808.4	3820.6	3823.0	3813.2	3801.0	3737.6	3674.1
17.5°	3759.5	3730.2	3818.1	3835.2	3857.2	3901.1	3871.8	3869.4	3823.0	3779.1	3686.3
20°	3776.6	3764.4	3835.2	3925.5	3928.0	3935.3	3950.0	3913.3	3888.9	3813.2	3671.7
22.5°	3840.1	3881.6	3947.5	3986.6	4008.5	4013.4	4013.4	3940.2	3913.3	3852.3	3740.0
25°	4030.5	3986.6	4079.3	4125.7	4094.0	4086.7	4069.6	4003.7	3974.4	3920.7	3771.7
27.5°	4169.7	4167.2	4220.9	4284.4	4199.0	4216.1	4155.0	4135.5	4069.6	4040.3	3827.9
30°	4360.1	4413.8	4411.4	4430.9	4318.6	4338.1	4260.0	4223.4	4186.8	4203.8	3993.9
32.5°	4604.2	4584.7	4616.4	4601.8	4489.5	4506.6	4413.8	4357.6	4369.9	4421.1	4220.9
35°	4760.5	4740.9	4753.1	4753.1	4719.0	4699.4	4660.4	4587.1	4645.7	4740.9	4474.8
37.5°	4928.9	4953.3	5024.1	5009.5	4965.5	4965.5	4960.6	4909.4	4985.0	5219.4	4880.1
40°	5077.8	5143.7	5187.7	5217.0	5268.2	5268.2	5309.7	5280.4	5417.2	5793.1	5375.7
42.5°	5234.1	5236.5	5475.7	5497.7	5612.5	5661.3	5693.0	5717.4	5973.8	6393.7	5905.4
45°	5434.2	5446.4	5656.4	5824.8	6003.1	6020.1	6139.8	6220.3	6535.2	7050.4	6481.5
47.5°	5697.9	5683.2	5907.8	6176.4	6398.5	6515.7	6659.8	6747.6	7135.8	7763.2	7111.4
50°	6044.6	6000.6	6130.0	6552.3	6813.6	6942.9	7199.3	7345.7	7799.8	8444.3	7543.5
52.5°	6466.9	6393.7	6496.2	6957.6	7250.5	7511.8	7755.9	7919.4	8393.0	8971.6	7863.3
55°	6913.6	6762.3	6791.6	7387.2	7809.6	8056.2	8390.6	8561.5	9044.9	9445.2	8183.1
57.5°	7355.5	7260.3	7201.7	7799.8	8476.0	8712.9	9020.5	9242.6	9652.7	9865.1	8454.1
60°	7726.6	7702.2	7607.0	8439.4	9181.6	9384.2	9706.4	9843.2	10153.2	10253.3	8459.0
62.5°	8031.7	7948.7	8100.1	8954.5	9899.3	10128.8	10482.8	10495.0	10714.7	10495.0	8210.0
65°	8271.0	8275.9	8517.6	9577.1	10729.3	11068.7	11354.3	11322.6	11181.0	10350.9	7621.6
67.5°	8488.3	8581.0	8935.0	10260.6	11796.2	12116.0	12433.3	12013.4	11307.9	9677.1	6471.8
70°	8659.1	8751.9	9498.9	11093.1	13053.4	13522.1	13592.9	12286.9	10724.4	8197.7	4882.5
72.5°	8639.6	8808.1	9818.7	11757.1	14169.1	14574.3	14003.1	11517.9	8935.0	5715.0	2848.9
73°	8681.1	8764.1	9791.9	11942.6	14508.4	14711.0	13812.6	11276.2	8427.2	5126.6	2409.5
75°	7880.4	8161.1	9306.1	11639.9	14144.7	14108.0	12719.0	9396.4	5990.8	2692.7	1166.9
77.5°	5829.7	6007.9	7333.5	9572.2	11610.6	11376.3	9594.1	6005.5	2844.1	998.5	629.8
80°	2848.9	2988.1	3886.5	5527.0	7592.3	7611.8	5954.2	3124.8	1218.2	563.9	429.7
82.5°	1423.3	1506.3	1867.6	2429.1	3735.1	3913.3	3019.8	1777.2	754.3	319.8	244.1
85°	930.1	988.7	1149.8	1188.9	1584.4	1672.3	1406.2	1386.6	490.7	173.3	197.7
87.5°	617.6	627.4	705.5	600.5	634.7	610.3	678.7	874.0	144.0	73.2	53.7
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°	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0
2.5°	3871.8	3837.7	3801.0	3749.8	3713.2	3657.0	3605.7	3583.8	3578.9	3581.3	3556.9
5°	3771.7	3722.9	3649.7	3544.7	3483.7	3390.9	3312.8	3271.3	3227.3	3234.7	3215.1
7.5°	3632.6	3578.9	3466.6	3344.5	3193.2	3061.3	2988.1	2885.6	2827.0	2783.0	2807.4
10°	3588.7	3495.9	3327.4	3159.0	2924.6	2751.3	2582.9	2465.7	2385.1	2307.0	2341.2
12.5°	3566.7	3473.9	3239.6	2990.5	2687.8	2424.2	2187.4	2043.3	1928.6	1860.2	1887.1
15°	3547.1	3432.4	3156.5	2805.0	2465.7	2119.0	1852.9	1662.5	1552.6	1486.7	1494.1
17.5°	3574.0	3410.4	3034.5	2624.4	2221.5	1850.5	1555.1	1357.3	1245.0	1203.5	1193.8
20°	3547.1	3386.0	2914.9	2443.7	1977.4	1594.1	1311.0	1147.4	1069.3	1035.1	1027.8
22.5°	3556.9	3327.4	2790.4	2243.5	1750.4	1379.3	1147.4	1022.9	961.9	944.8	949.6
25°	3603.3	3293.3	2665.9	2023.8	1525.8	1220.6	1042.4	947.2	903.3	886.2	891.1
27.5°	3637.5	3322.6	2553.6	1816.3	1335.4	1079.0	954.5	891.1	861.8	849.6	847.1
30°	3722.9	3339.6	2443.7	1630.8	1179.1	986.3	893.5	842.2	822.7	815.4	812.9
32.5°	3849.9	3371.4	2316.8	1459.9	1064.4	898.4	844.7	800.7	795.9	788.5	791.0
35°	4057.4	3481.2	2175.2	1313.4	954.5	839.8	793.4	764.1	764.1	764.1	771.4
37.5°	4355.2	3635.0	2048.2	1174.2	883.7	788.5	749.5	739.7	734.8	742.1	747.0
40°	4738.5	3820.6	1945.7	1064.4	822.7	754.3	720.2	715.3	712.8	710.4	715.3
42.5°	5158.4	4057.4	1857.8	978.9	778.8	717.7	693.3	688.4	678.7	683.6	690.9
45°	5575.8	4350.3	1779.7	910.6	749.5	698.2	664.0	661.6	656.7	654.3	666.5
47.5°	6039.7	4638.4	1755.3	869.1	727.5	668.9	644.5	642.1	627.4	625.0	634.7
50°	6401.0	4850.8	1782.1	849.6	695.8	646.9	629.8	617.6	605.4	593.2	593.2
52.5°	6650.0	4997.3	1801.6	834.9	678.7	617.6	595.7	590.8	578.6	566.4	561.5
55°	6874.6	5085.1	1806.5	837.4	661.6	583.5	568.8	566.4	559.0	539.5	534.6
57.5°	6950.3	5048.5	1708.9	815.4	651.8	561.5	542.0	546.8	537.1	520.0	517.5
60°	6942.9	4794.6	1486.7	786.1	629.8	537.1	512.7	527.3	527.3	507.8	505.3
62.5°	6520.6	4208.7	1215.7	729.9	605.4	512.7	485.8	507.8	515.1	502.9	500.5
65°	5644.2	3427.5	1015.6	673.8	568.8	485.8	459.0	483.4	495.6	490.7	488.3
67.5°	4670.1	2621.9	844.7	600.5	522.4	449.2	427.2	444.3	451.6	454.1	456.5
70°	3300.6	1745.5	705.5	520.0	459.0	410.1	385.7	388.2	385.7	393.0	393.0
72.5°	1794.3	1005.8	573.7	441.9	395.5	356.4	339.3	327.1	327.1	324.7	324.7
73°	1535.6	903.3	546.8	429.7	378.4	346.7	327.1	317.4	317.4	314.9	312.5
75°	861.8	661.6	468.7	368.6	327.1	302.7	288.1	273.4	271.0	271.0	271.0
77.5°	566.4	515.1	373.5	295.4	263.7	241.7	236.8	222.2	222.2	222.2	219.7
80°	424.8	405.2	288.1	224.6	202.6	185.5	180.7	170.9	168.4	158.7	161.1
82.5°	283.2	319.8	209.9	158.7	136.7	126.9	126.9	124.5	117.2	105.0	105.0
85°	224.6	261.2	151.4	97.7	80.6	68.4	70.8	68.4	65.9	53.7	51.3
87.5°	41.5	105.0	43.9	26.9	19.5	12.2	12.2	7.3	4.9	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)