

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: P480889

Luminaire Tested: **IFLD-S-SA3D-740-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480889  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-740-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

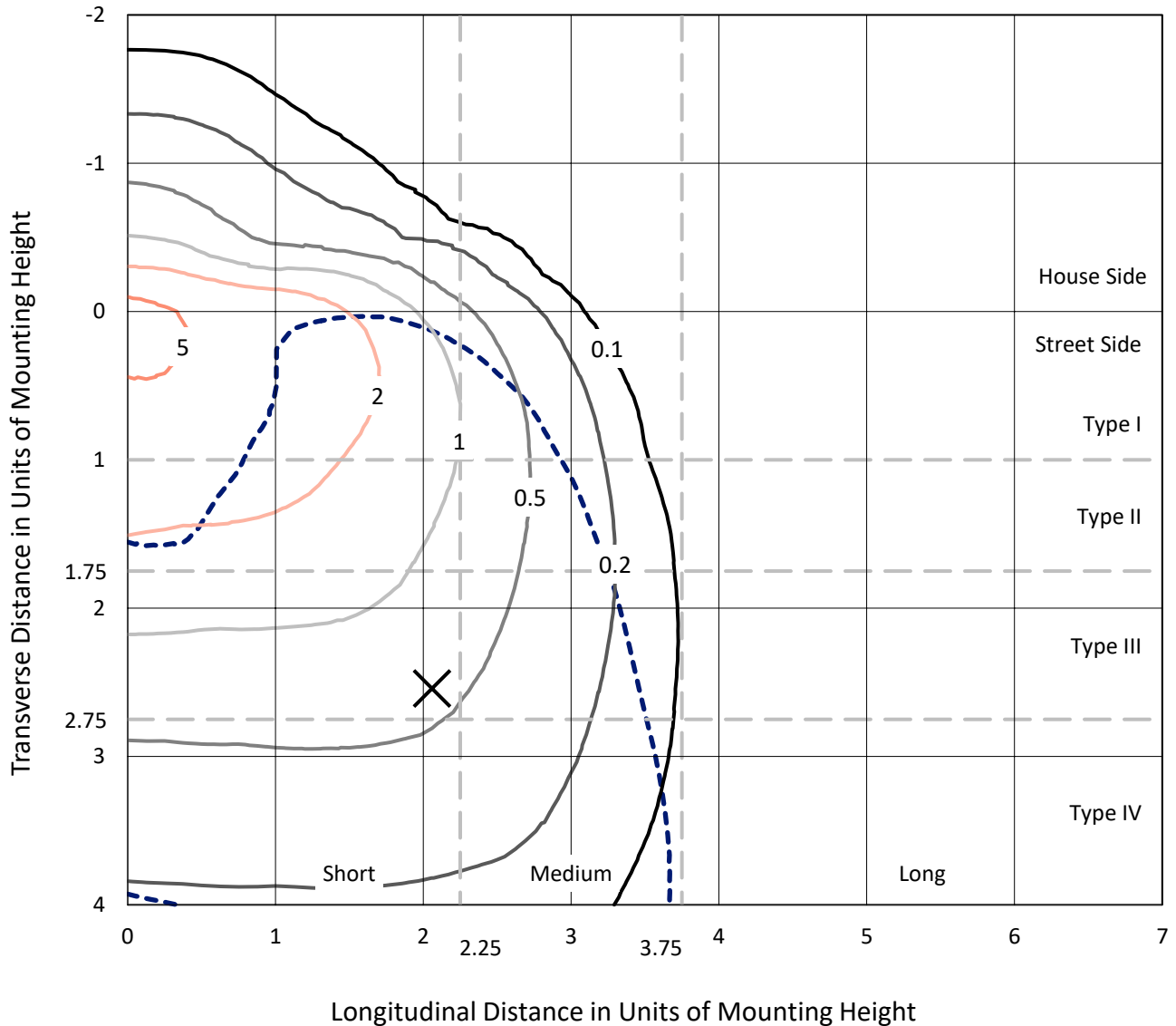
Lumens per Lamp: N/A  
Luminaire Lumens: 22544.4 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

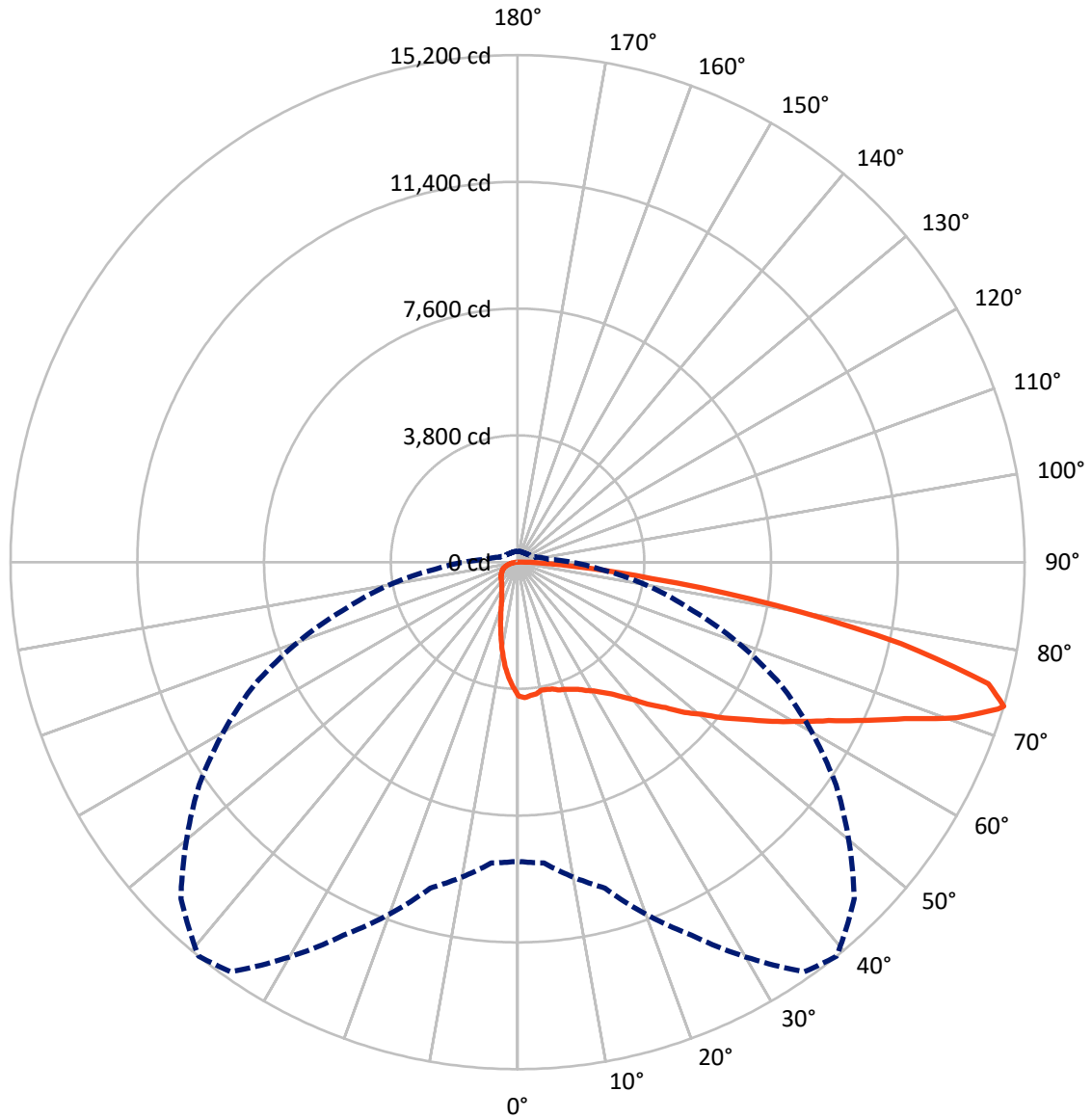
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	3169.1	0.0	3169.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	19375.3	0.0	19375.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	22544.4	0.0	22544.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.4	1.5
10°-20°	885.6	3.9
20°-30°	1353.3	6.0
30°-40°	1973.1	8.8
40°-50°	2981.6	13.2
50°-60°	4317.5	19.2
60°-70°	5485.6	24.3
70°-80°	4446.9	19.7
80°-90°	752.4	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°	22544.4	100.0
0°-180°	22544.4	100.0

**Coefficient of Utilization**

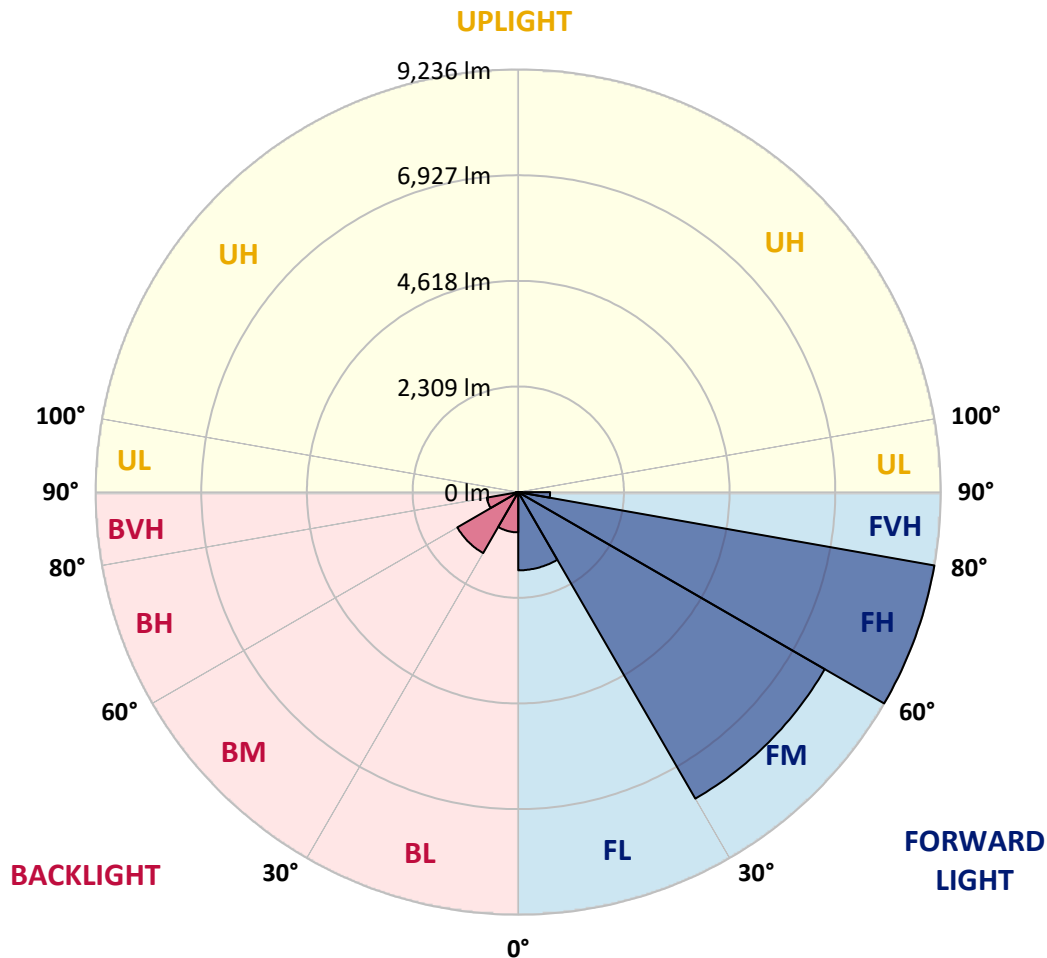


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.4	7.6			
FM (30°-60°)	7734.2	34.3			
FH (60°-80°)	9235.5	41.0			G4/12000
FVH (80°-90°)	697.2	3.1			G4/750
BL (0°-30°)	878.9	3.9	B2/1000		
BM (30°-60°)	1538.0	6.8	B2/2500		
BH (60°-80°)	697.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	55.2	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°	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0
2.5°	4108.9	4066.0	4073.6	4058.4	4073.6	4068.5	4061.0	4023.1	4061.0	4023.1	4013.0
5°	4053.4	4053.4	4078.6	4040.8	4045.8	4020.6	4045.8	4018.1	3992.9	3929.8	3912.1
7.5°	4035.7	4033.2	4035.7	3982.8	4008.0	3992.9	3967.6	3937.4	3886.9	3846.6	3788.6
10°	3914.7	3939.9	3912.1	3927.3	3947.5	3902.1	3899.5	3892.0	3869.3	3816.3	3781.0
12.5°	3849.1	3892.0	3907.1	3894.5	3912.1	3917.2	3902.1	3892.0	3864.2	3828.9	3728.0
15°	3876.8	3826.4	3869.3	3952.5	3934.8	3947.5	3950.0	3939.9	3927.3	3861.7	3796.1
17.5°	3884.4	3854.1	3944.9	3962.6	3985.3	4030.7	4000.4	3997.9	3950.0	3904.6	3808.7
20°	3902.1	3889.4	3962.6	4055.9	4058.4	4066.0	4081.1	4043.3	4018.1	3939.9	3793.6
22.5°	3967.6	4010.5	4078.6	4119.0	4141.7	4146.7	4146.7	4071.1	4043.3	3980.3	3864.2
25°	4164.4	4119.0	4214.8	4262.8	4230.0	4222.4	4204.7	4136.6	4106.4	4050.9	3897.0
27.5°	4308.2	4305.6	4361.1	4426.7	4338.4	4356.1	4293.0	4272.8	4204.7	4174.5	3955.0
30°	4504.9	4560.4	4557.9	4578.0	4462.0	4482.2	4401.5	4363.6	4325.8	4343.5	4126.5
32.5°	4757.1	4737.0	4769.7	4754.6	4638.6	4656.2	4560.4	4502.4	4515.0	4568.0	4361.1
35°	4918.6	4898.4	4911.0	4911.0	4875.7	4855.5	4815.1	4739.5	4800.0	4898.4	4623.4
37.5°	5092.6	5117.8	5191.0	5175.8	5130.4	5130.4	5125.4	5072.4	5150.6	5392.8	5042.2
40°	5246.5	5314.6	5360.0	5390.2	5443.2	5443.2	5486.1	5455.8	5597.1	5985.5	5554.2
42.5°	5407.9	5410.4	5657.6	5680.3	5798.9	5849.3	5882.1	5907.3	6172.2	6606.0	6101.5
45°	5614.7	5627.3	5844.3	6018.3	6202.4	6220.1	6343.7	6426.9	6752.3	7284.5	6696.8
47.5°	5887.1	5872.0	6104.1	6381.5	6611.0	6732.1	6880.9	6971.7	7372.8	8021.0	7347.6
50°	6245.3	6199.9	6333.6	6770.0	7039.8	7173.5	7438.4	7589.7	8058.9	8724.8	7794.0
52.5°	6681.7	6606.0	6711.9	7188.7	7491.3	7761.2	8013.5	8182.5	8671.8	9269.6	8124.5
55°	7143.3	6986.9	7017.1	7632.6	8069.0	8323.7	8669.3	8845.8	9345.3	9758.9	8454.9
57.5°	7599.8	7501.4	7440.9	8058.9	8757.6	9002.2	9320.0	9549.6	9973.3	10192.8	8734.9
60°	7983.2	7958.0	7859.6	8719.7	9486.5	9695.9	10028.8	10170.1	10490.4	10593.8	8739.9
62.5°	8298.5	8212.7	8369.1	9251.9	10228.1	10465.2	10830.9	10843.5	11070.5	10843.5	8482.6
65°	8545.7	8550.7	8800.4	9895.1	11085.7	11436.3	11731.4	11698.6	11552.3	10694.7	7874.7
67.5°	8770.2	8866.0	9231.8	10601.4	12187.9	12518.4	12846.3	12412.4	11683.5	9998.6	6686.7
70°	8946.7	9042.6	9814.4	11461.5	13486.9	13971.2	14044.4	12694.9	11080.6	8470.0	5044.7
72.5°	8926.6	9100.6	10144.8	12147.6	14639.7	15058.4	14468.1	11900.4	9231.8	5904.8	2943.6
73°	8969.4	9055.2	10117.1	12339.3	14990.3	15199.6	14271.4	11650.7	8707.1	5296.9	2489.5
75°	8142.1	8432.2	9615.2	12026.5	14614.4	14576.6	13141.4	9708.5	6189.8	2782.1	1205.7
77.5°	6023.3	6207.5	7577.1	9890.1	11996.2	11754.1	9912.8	6205.0	2938.5	1031.6	650.8
80°	2943.6	3087.3	4015.6	5710.6	7844.5	7864.7	6152.0	3228.6	1258.6	582.7	443.9
82.5°	1470.5	1556.3	1929.6	2509.7	3859.2	4043.3	3120.1	1836.3	779.4	330.4	252.2
85°	961.0	1021.5	1188.0	1228.4	1637.0	1727.8	1452.9	1432.7	507.0	179.1	204.3
87.5°	638.2	648.2	729.0	620.5	655.8	630.6	701.2	903.0	148.8	75.7	55.5
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°	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0	4013.0
2.5°	4000.4	3965.1	3927.3	3874.3	3836.5	3778.5	3725.5	3702.8	3697.7	3700.3	3675.0
5°	3897.0	3846.6	3770.9	3662.4	3599.4	3503.5	3422.8	3379.9	3334.5	3342.1	3321.9
7.5°	3753.2	3697.7	3581.7	3455.6	3299.2	3163.0	3087.3	2981.4	2920.9	2875.5	2900.7
10°	3707.8	3612.0	3437.9	3263.9	3021.8	2842.7	2668.6	2547.6	2464.3	2383.6	2418.9
12.5°	3685.1	3589.3	3347.1	3089.9	2777.1	2504.7	2260.0	2111.2	1992.6	1922.0	1949.8
15°	3665.0	3546.4	3261.4	2898.2	2547.6	2189.4	1914.5	1717.7	1604.2	1536.1	1543.7
17.5°	3692.7	3523.7	3135.3	2711.5	2295.3	1911.9	1606.7	1402.4	1286.4	1243.5	1233.4
20°	3665.0	3498.5	3011.7	2524.9	2043.1	1647.1	1354.5	1185.5	1104.8	1069.5	1061.9
22.5°	3675.0	3437.9	2883.0	2318.0	1808.5	1425.1	1185.5	1056.9	993.8	976.1	981.2
25°	3723.0	3402.6	2754.4	2091.0	1576.5	1261.2	1077.0	978.7	933.3	915.6	920.7
27.5°	3758.3	3432.9	2638.4	1876.6	1379.7	1114.9	986.2	920.7	890.4	877.8	875.3
30°	3846.6	3450.6	2524.9	1684.9	1218.3	1019.0	923.2	870.2	850.0	842.5	839.9
32.5°	3977.7	3483.3	2393.7	1508.4	1099.7	928.2	872.7	827.3	822.3	814.7	817.2
35°	4192.1	3596.9	2247.4	1357.0	986.2	867.7	819.8	789.5	789.5	789.5	797.1
37.5°	4499.9	3755.8	2116.2	1213.2	913.1	814.7	774.4	764.3	759.2	766.8	771.8
40°	4895.9	3947.5	2010.3	1099.7	850.0	779.4	744.1	739.0	736.5	734.0	739.0
42.5°	5329.7	4192.1	1919.5	1011.5	804.6	741.6	716.3	711.3	701.2	706.3	713.8
45°	5761.0	4494.8	1838.8	940.8	774.4	721.4	686.1	683.6	678.5	676.0	688.6
47.5°	6240.3	4792.4	1813.6	898.0	751.7	691.1	665.9	663.4	648.2	645.7	655.8
50°	6613.6	5011.9	1841.3	877.8	718.9	668.4	650.8	638.2	625.5	612.9	612.9
52.5°	6870.9	5163.2	1861.5	862.6	701.2	638.2	615.5	610.4	597.8	585.2	580.1
55°	7102.9	5254.0	1866.5	865.2	683.6	602.8	587.7	585.2	577.6	557.4	552.4
57.5°	7181.1	5216.2	1765.6	842.5	673.5	580.1	560.0	565.0	554.9	537.3	534.7
60°	7173.5	4953.9	1536.1	812.2	650.8	554.9	529.7	544.8	544.8	524.6	522.1
62.5°	6737.2	4348.5	1256.1	754.2	625.5	529.7	501.9	524.6	532.2	519.6	517.1
65°	5831.6	3541.4	1049.3	696.2	587.7	501.9	474.2	499.4	512.0	507.0	504.5
67.5°	4825.2	2709.0	872.7	620.5	539.8	464.1	441.4	459.1	466.6	469.2	471.7
70°	3410.2	1803.5	729.0	537.3	474.2	423.8	398.5	401.1	398.5	406.1	406.1
72.5°	1853.9	1039.2	592.7	456.5	408.6	368.3	350.6	338.0	338.0	335.5	335.5
73°	1586.6	933.3	565.0	443.9	391.0	358.2	338.0	327.9	327.9	325.4	322.9
75°	890.4	683.6	484.3	380.9	338.0	312.8	297.6	282.5	280.0	280.0	280.0
77.5°	585.2	532.2	385.9	305.2	272.4	249.7	244.7	229.5	229.5	229.5	227.0
80°	438.9	418.7	297.6	232.1	209.4	191.7	186.7	176.6	174.0	164.0	166.5
82.5°	292.6	330.4	216.9	164.0	141.3	131.2	131.2	128.6	121.1	108.5	108.5
85°	232.1	269.9	156.4	100.9	83.2	70.6	73.1	70.6	68.1	55.5	53.0
87.5°	42.9	108.5	45.4	27.7	20.2	12.6	12.6	7.6	5.0	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)