

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: P480928

Luminaire Tested: **IFLD-S-SA3D-750-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480928  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-750-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

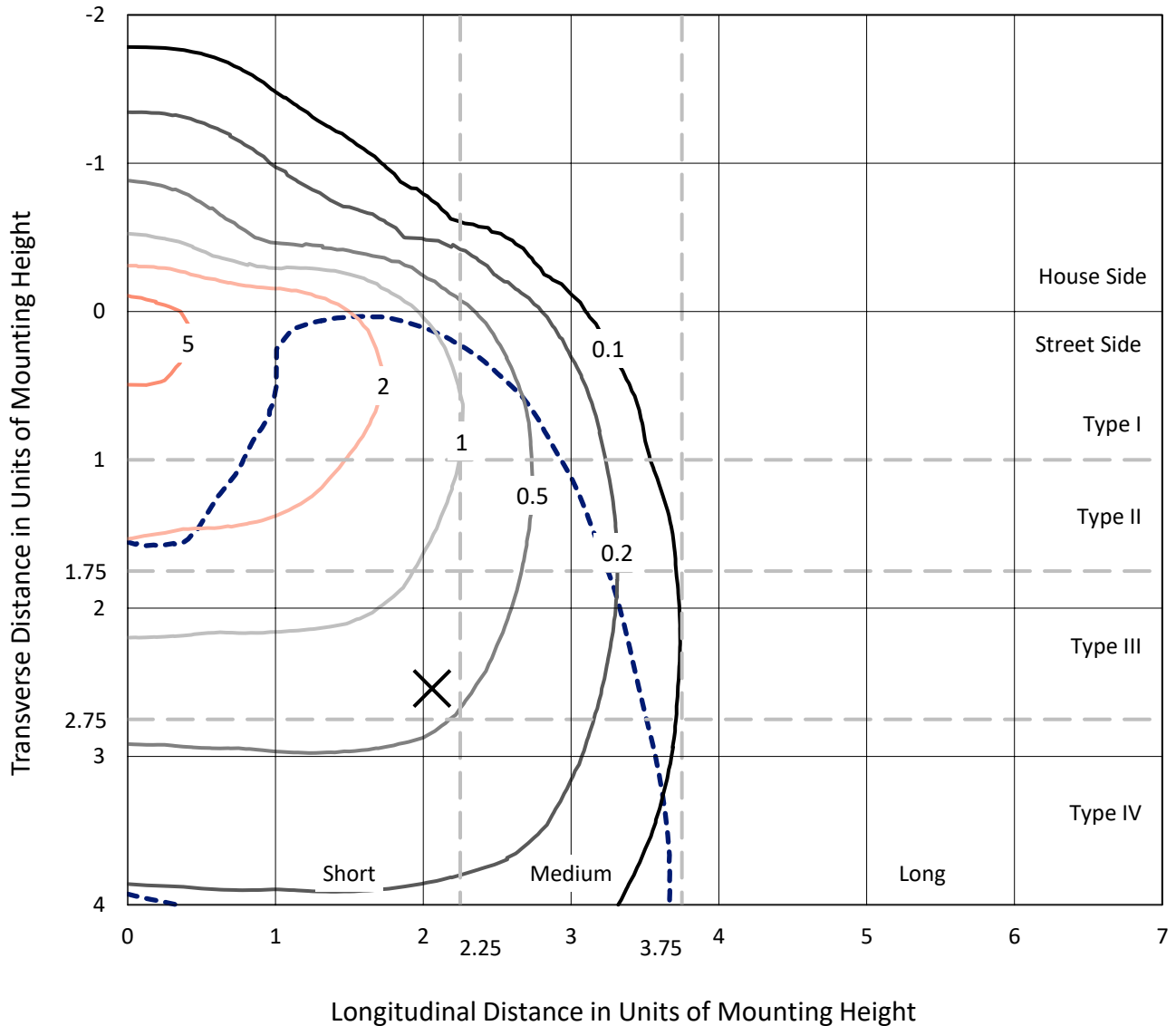
Lumens per Lamp: N/A  
Luminaire Lumens: 23060.7 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

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

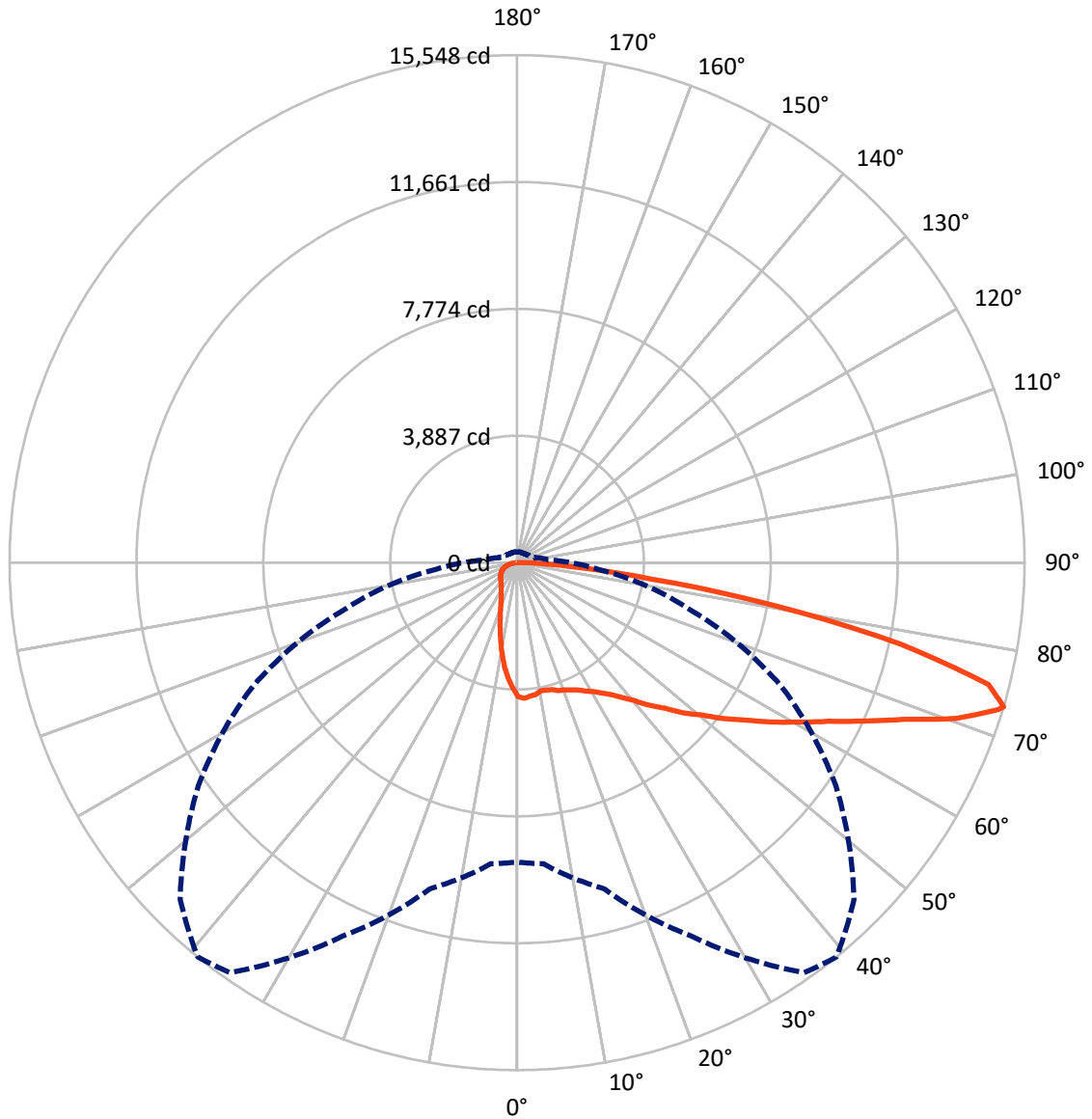
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	3241.7	0.0	3241.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	19819.0	0.0	19819.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	23060.7	0.0	23060.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.3	1.5
10°-20°	905.9	3.9
20°-30°	1384.3	6.0
30°-40°	2018.3	8.8
40°-50°	3049.9	13.2
50°-60°	4416.4	19.2
60°-70°	5611.2	24.3
70°-80°	4548.8	19.7
80°-90°	769.6	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°	23060.7	100.0
0°-180°	23060.7	100.0

**Coefficient of Utilization**



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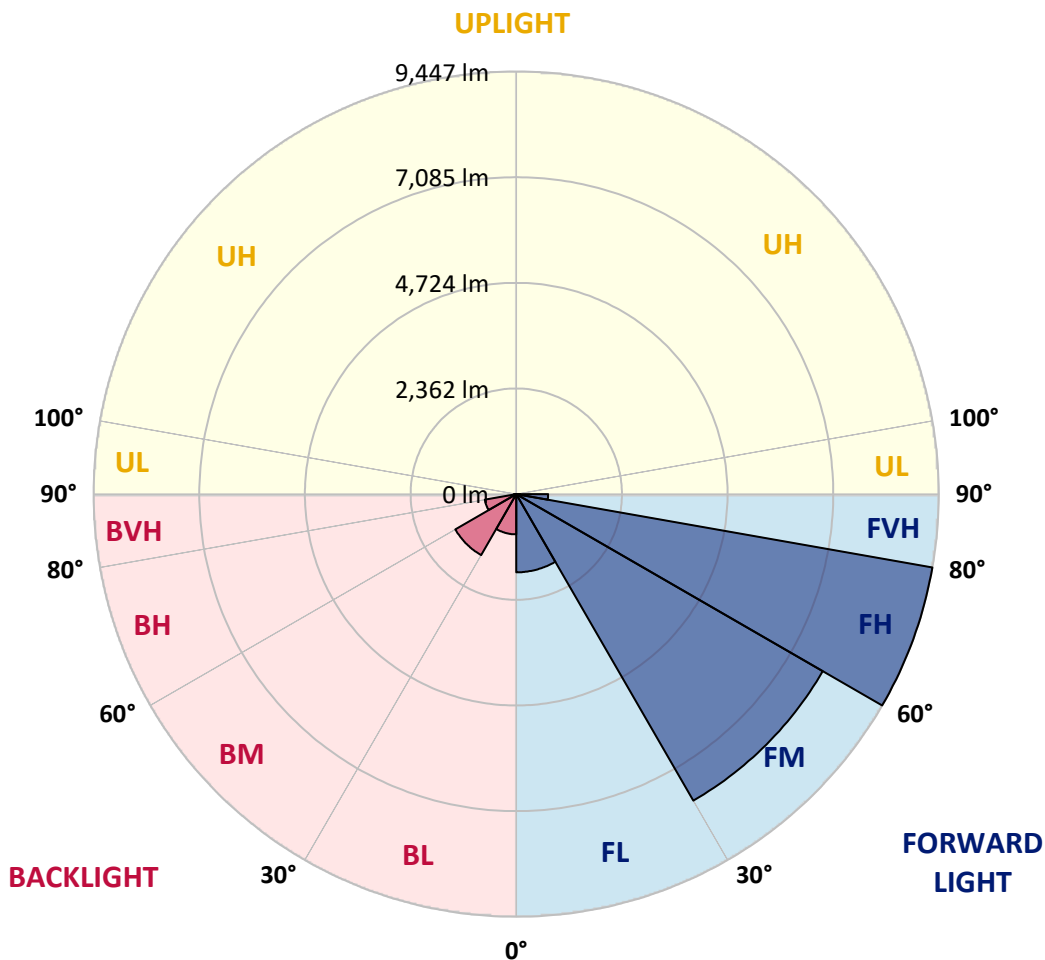
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.5	7.6			
FM (30°-60°)	7911.3	34.3			
FH (60°-80°)	9447.0	41.0			G4/12000
FVH (80°-90°)	713.2	3.1			G4/750
BL (0°-30°)	899.0	3.9	B2/1000		
BM (30°-60°)	1573.3	6.8	B2/2500		
BH (60°-80°)	713.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	56.5	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9
2.5°	4203.0	4159.1	4166.9	4151.4	4166.9	4161.7	4154.0	4115.3	4154.0	4115.3	4104.9
5°	4146.2	4146.2	4172.0	4133.3	4138.5	4112.7	4138.5	4110.1	4084.3	4019.8	4001.7
7.5°	4128.2	4125.6	4128.2	4074.0	4099.8	4084.3	4058.5	4027.5	3975.9	3934.7	3875.3
10°	4004.3	4030.1	4001.7	4017.2	4037.9	3991.4	3988.8	3981.1	3957.9	3903.7	3867.6
12.5°	3937.2	3981.1	3996.6	3983.7	4001.7	4006.9	3991.4	3981.1	3952.7	3916.6	3813.4
15°	3965.6	3914.0	3957.9	4043.0	4025.0	4037.9	4040.4	4030.1	4017.2	3950.1	3883.1
17.5°	3973.4	3942.4	4035.3	4053.3	4076.6	4123.0	4092.0	4089.5	4040.4	3994.0	3896.0
20°	3991.4	3978.5	4053.3	4148.8	4151.4	4159.1	4174.6	4135.9	4110.1	4030.1	3880.5
22.5°	4058.5	4102.4	4172.0	4213.3	4236.5	4241.7	4241.7	4164.3	4135.9	4071.4	3952.7
25°	4259.7	4213.3	4311.3	4360.4	4326.8	4319.1	4301.0	4231.4	4200.4	4143.6	3986.3
27.5°	4406.8	4404.2	4461.0	4528.1	4437.8	4455.8	4391.3	4370.7	4301.0	4270.1	4045.6
30°	4608.1	4664.8	4662.2	4682.9	4564.2	4584.8	4502.3	4463.6	4424.9	4442.9	4221.0
32.5°	4866.1	4845.4	4879.0	4863.5	4744.8	4762.9	4664.8	4605.5	4618.4	4672.6	4461.0
35°	5031.2	5010.6	5023.5	5023.5	4987.3	4966.7	4925.4	4848.0	4909.9	5010.6	4729.3
37.5°	5209.2	5235.0	5309.8	5294.4	5247.9	5247.9	5242.8	5188.6	5268.6	5516.3	5157.6
40°	5366.6	5436.3	5482.7	5513.7	5567.9	5567.9	5611.7	5580.8	5725.2	6122.6	5681.4
42.5°	5531.7	5534.3	5787.2	5810.4	5931.7	5983.3	6016.8	6042.6	6313.5	6757.3	6241.3
45°	5743.3	5756.2	5978.1	6156.1	6344.5	6362.5	6489.0	6574.1	6906.9	7451.3	6850.2
47.5°	6022.0	6006.5	6243.8	6527.7	6762.4	6886.3	7038.5	7131.4	7541.6	8204.7	7515.8
50°	6388.3	6341.9	6478.6	6925.0	7201.1	7337.8	7608.7	7763.5	8243.4	8924.6	7972.5
52.5°	6834.7	6757.3	6865.6	7353.3	7662.9	7939.0	8197.0	8369.8	8870.4	9481.9	8310.5
55°	7306.8	7146.9	7177.8	7807.4	8253.7	8514.3	8867.8	9048.4	9559.3	9982.4	8648.5
57.5°	7773.8	7673.2	7611.3	8243.4	8958.1	9208.4	9533.5	9768.3	10201.7	10426.2	8934.9
60°	8166.0	8140.2	8039.6	8919.4	9703.8	9917.9	10258.5	10403.0	10730.6	10836.4	8940.0
62.5°	8488.5	8400.8	8560.8	9463.8	10462.3	10704.8	11079.0	11091.9	11324.1	11091.9	8676.9
65°	8741.4	8746.5	9002.0	10121.7	11339.5	11698.2	12000.0	11966.5	11816.9	10939.6	8055.1
67.5°	8971.0	9069.1	9443.2	10844.2	12467.0	12805.0	13140.5	12696.7	11951.0	10227.5	6839.8
70°	9151.6	9249.7	10039.2	11724.0	13795.8	14291.2	14366.0	12985.6	11334.4	8664.0	5160.2
72.5°	9131.0	9309.0	10377.2	12425.8	14974.9	15403.2	14799.5	12172.9	9443.2	6040.0	3011.0
73°	9174.8	9262.6	10348.8	12621.9	15333.5	15547.7	14598.2	11917.5	8906.5	5418.2	2546.6
75°	8328.6	8625.3	9835.3	12301.9	14949.1	14910.4	13442.3	9930.8	6331.6	2845.9	1233.3
77.5°	6161.3	6349.6	7750.6	10116.6	12271.0	12023.3	10139.8	6347.0	3005.8	1055.3	665.7
80°	3011.0	3158.0	4107.5	5841.3	8024.1	8044.8	6292.9	3302.5	1287.5	596.0	454.1
82.5°	1504.2	1591.9	1973.8	2567.2	3947.6	4135.9	3191.6	1878.3	797.3	338.0	258.0
85°	983.0	1044.9	1215.2	1256.5	1674.5	1767.4	1486.1	1465.5	518.6	183.2	209.0
87.5°	652.8	663.1	745.6	634.7	670.8	645.0	717.3	923.7	152.2	77.4	56.8
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°	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9	4104.9
2.5°	4092.0	4055.9	4017.2	3963.0	3924.3	3865.0	3810.8	3787.6	3782.4	3785.0	3759.2
5°	3986.3	3934.7	3857.2	3746.3	3681.8	3583.8	3501.2	3457.3	3410.9	3418.6	3398.0
7.5°	3839.2	3782.4	3663.7	3534.7	3374.8	3235.4	3158.0	3049.7	2987.8	2941.3	2967.1
10°	3792.7	3694.7	3516.7	3338.6	3091.0	2907.8	2729.7	2605.9	2520.8	2438.2	2474.3
12.5°	3769.5	3671.5	3423.8	3160.6	2840.7	2562.0	2311.8	2159.5	2038.3	1966.0	1994.4
15°	3748.9	3627.6	3336.1	2964.5	2605.9	2239.5	1958.3	1757.0	1640.9	1571.3	1579.0
17.5°	3777.3	3604.4	3207.1	2773.6	2347.9	1955.7	1643.5	1434.5	1315.9	1272.0	1261.7
20°	3748.9	3578.6	3080.6	2582.7	2089.9	1684.8	1385.5	1212.6	1130.1	1094.0	1086.2
22.5°	3759.2	3516.7	2949.1	2371.1	1849.9	1457.8	1212.6	1081.1	1016.6	998.5	1003.7
25°	3808.2	3480.6	2817.5	2138.9	1612.6	1290.1	1101.7	1001.1	954.6	936.6	941.7
27.5°	3844.3	3511.5	2698.8	1919.6	1411.3	1140.4	1008.8	941.7	910.8	897.9	895.3
30°	3934.7	3529.6	2582.7	1723.5	1246.2	1042.4	944.3	890.1	869.5	861.8	859.2
32.5°	4068.8	3563.1	2448.5	1542.9	1124.9	949.5	892.7	846.3	841.1	833.4	836.0
35°	4288.1	3679.2	2298.9	1388.1	1008.8	887.6	838.5	807.6	807.6	807.6	815.3
37.5°	4602.9	3841.8	2164.7	1241.0	934.0	833.4	792.1	781.8	776.6	784.4	789.5
40°	5008.0	4037.9	2056.3	1124.9	869.5	797.3	761.1	756.0	753.4	750.8	756.0
42.5°	5451.8	4288.1	1963.5	1034.6	823.1	758.5	732.7	727.6	717.3	722.4	730.2
45°	5892.9	4597.7	1880.9	962.4	792.1	737.9	701.8	699.2	694.0	691.5	704.4
47.5°	6383.2	4902.2	1855.1	918.5	768.9	706.9	681.1	678.6	663.1	660.5	670.8
50°	6765.0	5126.7	1883.5	897.9	735.3	683.7	665.7	652.8	639.9	627.0	627.0
52.5°	7028.2	5281.5	1904.1	882.4	717.3	652.8	629.5	624.4	611.5	598.6	593.4
55°	7265.6	5374.3	1909.3	885.0	699.2	616.6	601.2	598.6	590.8	570.2	565.0
57.5°	7345.5	5335.6	1806.1	861.8	688.9	593.4	572.8	577.9	567.6	549.6	547.0
60°	7337.8	5067.3	1571.3	830.8	665.7	567.6	541.8	557.3	557.3	536.7	534.1
62.5°	6891.4	4448.1	1284.9	771.4	639.9	541.8	513.4	536.7	544.4	531.5	528.9
65°	5965.2	3622.5	1073.3	712.1	601.2	513.4	485.1	510.9	523.8	518.6	516.0
67.5°	4935.7	2771.0	892.7	634.7	552.1	474.7	451.5	469.6	477.3	479.9	482.5
70°	3488.3	1844.8	745.6	549.6	485.1	433.5	407.7	410.2	407.7	415.4	415.4
72.5°	1896.4	1063.0	606.3	467.0	418.0	376.7	358.6	345.7	345.7	343.2	343.2
73°	1622.9	954.6	577.9	454.1	399.9	366.4	345.7	335.4	335.4	332.8	330.3
75°	910.8	699.2	495.4	389.6	345.7	319.9	304.5	289.0	286.4	286.4	286.4
77.5°	598.6	544.4	394.8	312.2	278.7	255.4	250.3	234.8	234.8	234.8	232.2
80°	448.9	428.3	304.5	237.4	214.1	196.1	190.9	180.6	178.0	167.7	170.3
82.5°	299.3	338.0	221.9	167.7	144.5	134.2	134.2	131.6	123.8	110.9	110.9
85°	237.4	276.1	160.0	103.2	85.1	72.2	74.8	72.2	69.7	56.8	54.2
87.5°	43.9	110.9	46.4	28.4	20.6	12.9	12.9	7.7	5.2	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)