

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: P480149

Luminaire Tested: **IFLD-S-SA3E-750-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480149  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-750-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

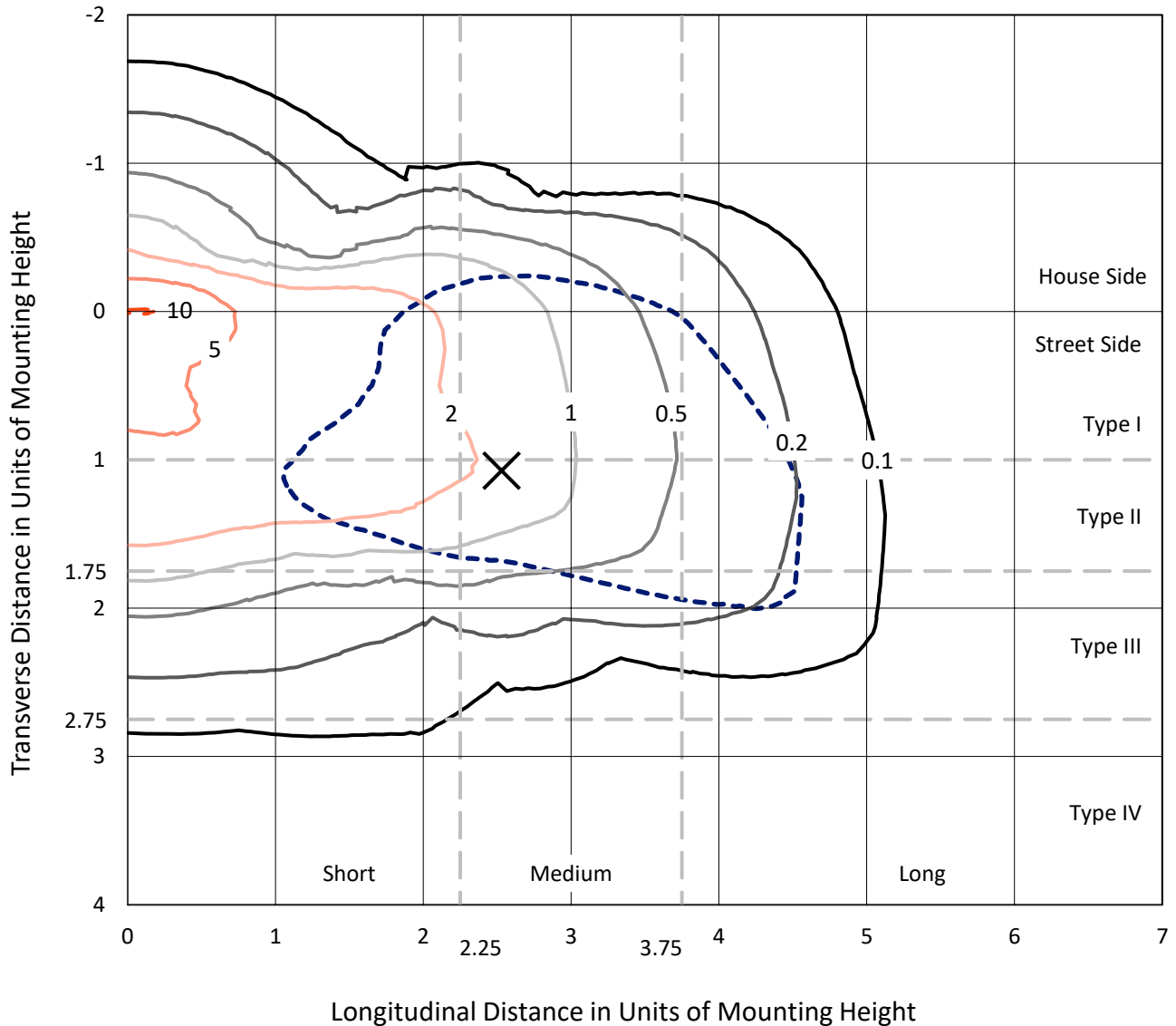
Lumens per Lamp: N/A  
Luminaire Lumens: 27509.9 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

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

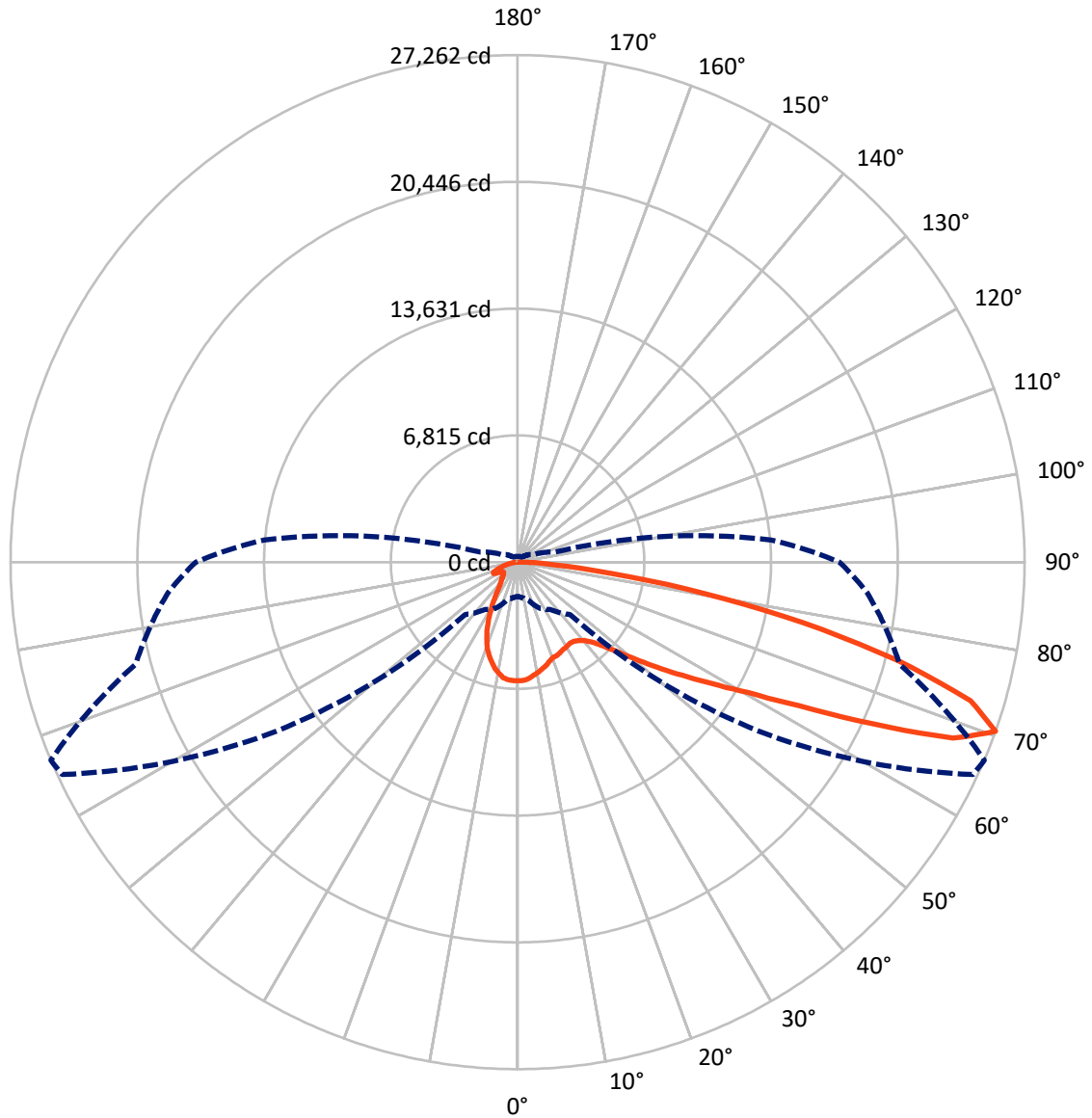
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5357.8	0.0	5357.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	22152.0	0.0	22152.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	27509.9	0.0	27509.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.7	2.0
10°-20°	1330.8	4.8
20°-30°	1797.1	6.5
30°-40°	2404.7	8.7
40°-50°	3536.1	12.9
50°-60°	5511.9	20.0
60°-70°	6789.7	24.7
70°-80°	4797.5	17.4
80°-90°	786.3	2.9
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°	27509.9	100.0
0°-180°	27509.9	100.0

**Coefficient of Utilization**



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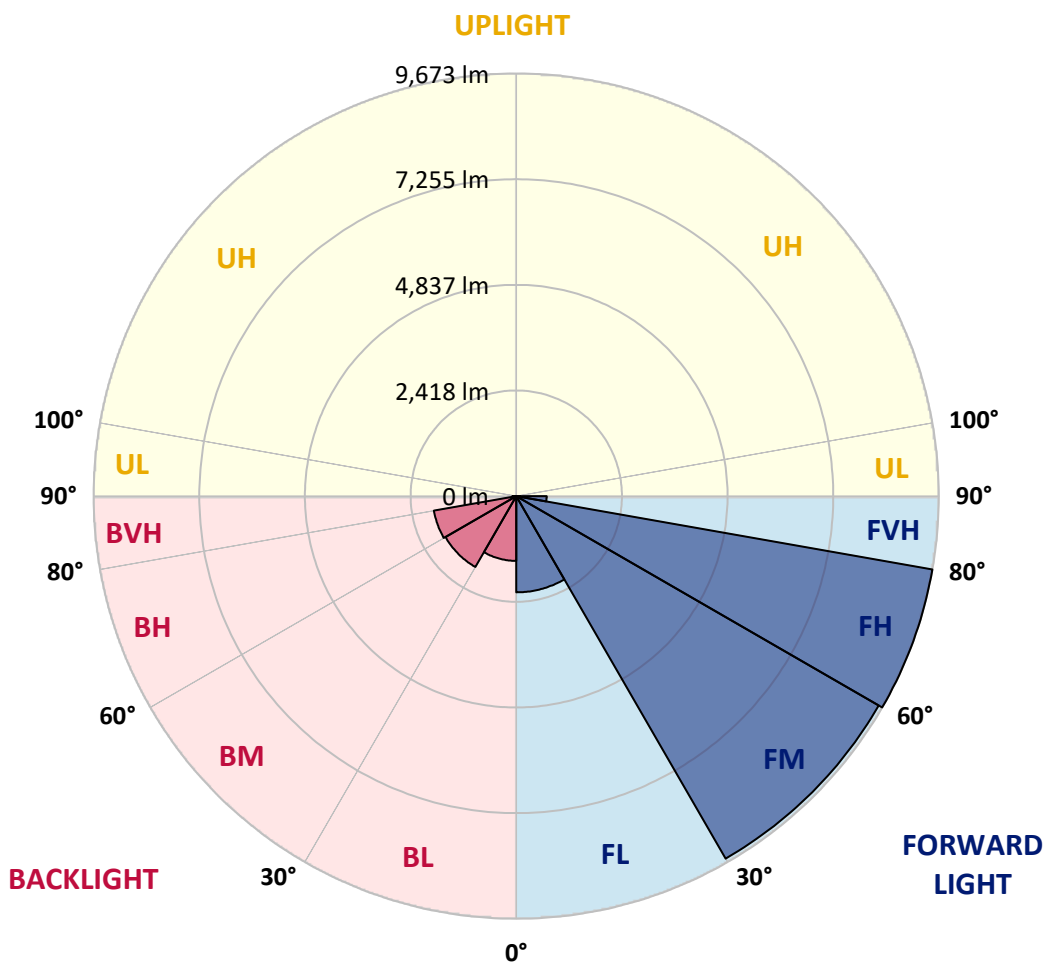
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2202.0	8.0			
FM (30°-60°)	9581.1	34.8			
FH (60°-80°)	9673.4	35.2			G4/12000
FVH (80°-90°)	695.6	2.5			G4/750
BL (0°-30°)	1481.6	5.4	B3/2500		
BM (30°-60°)	1871.6	6.8	B2/2500		
BH (60°-80°)	1913.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	90.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4
2.5°	5929.9	5996.9	6021.2	6057.8	6152.2	6222.3	6264.9	6313.6	6371.5	6420.2	6450.7
5°	5515.7	5552.2	5610.1	5649.7	5768.5	5957.3	6085.2	6292.3	6286.2	6362.4	6478.1
7.5°	5113.6	5150.2	5177.6	5256.8	5427.3	5597.9	5832.4	6167.4	6143.1	6319.7	6499.4
10°	4863.9	4836.5	4845.6	4979.6	5113.6	5305.5	5600.9	5942.1	6030.4	6304.5	6560.3
12.5°	4629.4	4598.9	4672.0	4757.3	4921.8	5095.4	5448.7	5756.3	5890.3	6249.7	6587.7
15°	4483.2	4461.9	4553.2	4589.8	4784.7	4991.8	5241.6	5616.2	5762.4	6182.7	6545.1
17.5°	4401.0	4419.2	4452.7	4531.9	4656.8	4833.4	5107.5	5521.8	5585.7	6100.4	6536.0
20°	4416.2	4437.5	4440.6	4474.1	4559.3	4696.4	4976.6	5421.2	5463.9	6085.2	6560.3
22.5°	4538.0	4507.6	4519.7	4498.4	4522.8	4629.4	4876.1	5287.2	5451.7	5957.3	6508.5
25°	4720.8	4678.1	4672.0	4598.9	4553.2	4583.7	4857.8	5253.7	5360.3	5917.7	6505.5
27.5°	5043.6	4979.6	4979.6	4870.0	4684.2	4635.5	4806.0	5198.9	5293.3	5881.1	6435.4
30°	5354.2	5354.2	5357.3	5202.0	4994.9	4754.3	4827.3	5177.6	5238.5	5771.5	6341.0
32.5°	5731.9	5722.8	5707.5	5631.4	5311.6	4952.2	4930.9	5150.2	5180.6	5735.0	6313.6
35°	6100.4	6076.1	6194.8	6127.8	5802.0	5339.0	5037.5	5162.4	5229.4	5680.1	6228.3
37.5°	6377.6	6392.8	6639.5	6682.1	6401.9	5777.6	5339.0	5284.2	5348.2	5759.3	6228.3
40°	6737.0	6797.9	7029.4	7172.5	7001.9	6356.3	5817.2	5488.3	5533.9	5936.0	6362.4
42.5°	7209.0	7260.8	7556.2	7742.0	7693.3	7093.3	6289.3	5914.6	5878.1	6231.4	6563.4
45°	7833.4	7842.5	8141.0	8396.8	8497.4	7863.9	7038.5	6453.7	6423.3	6740.0	6931.9
47.5°	8576.5	8567.4	8753.2	9027.3	9298.4	8783.6	7900.4	7273.0	7163.4	7467.9	7544.1
50°	9295.3	9255.7	9298.4	9648.6	10169.4	9934.9	8948.1	8275.0	8165.4	8332.9	8463.8
52.5°	9691.2	9740.0	9624.2	10087.2	11095.3	11296.3	10336.9	9472.0	9377.5	9459.8	9688.2
55°	9414.1	9514.6	9438.5	9877.0	11500.4	12956.2	12133.9	10857.7	10735.9	10705.4	11080.1
57.5°	8235.4	8418.2	8433.4	9127.8	11360.3	14241.4	14661.7	12493.2	12310.5	11999.8	12386.6
60°	6322.8	6505.5	6645.6	7467.9	10160.3	15008.9	17591.6	14820.1	14217.1	13413.0	13644.5
62.5°	4431.4	4556.3	4696.4	5202.0	7833.4	14558.2	20125.6	18097.2	16985.6	14902.3	15191.7
65°	3228.4	3325.8	3469.0	3767.5	4812.1	12045.5	21301.2	21989.6	20935.8	16796.7	16760.2
67.5°	2430.4	2491.3	2680.2	3158.3	3335.0	7440.5	20083.0	26101.2	25248.4	18901.3	18021.1
70°	1839.6	1891.3	2068.0	2722.8	3115.7	3989.8	15843.4	27017.9	27261.6	21261.7	18867.8
72.5°	1267.0	1324.9	1522.8	2269.0	2966.5	3164.4	9944.0	24544.9	25467.7	22233.2	17960.2
75°	776.6	816.2	932.0	1720.8	2945.1	3094.4	5473.0	20113.4	21091.1	20542.9	15712.5
77.5°	548.2	545.2	566.5	1008.1	2552.3	3112.6	3374.6	14737.9	15688.1	15139.9	10662.8
80°	399.0	402.0	423.3	603.0	1733.0	3164.4	2658.8	9870.9	10154.2	7894.3	4206.0
82.5°	240.6	252.8	304.6	408.1	1041.6	2856.8	2457.8	5485.2	5131.9	2534.0	1157.3
85°	127.9	127.9	179.7	258.9	554.3	2132.0	2366.5	2610.1	2186.8	785.8	429.4
87.5°	30.5	30.5	51.8	103.6	222.3	1020.3	1614.2	1038.6	831.5	265.0	176.6
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°	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4	6368.4
2.5°	6438.5	6401.9	6447.6	6356.3	6283.2	6286.2	6173.5	6167.4	6152.2	6073.0	6100.4
5°	6511.6	6481.1	6429.4	6328.9	6167.4	6006.0	5908.6	5783.7	5731.9	5704.5	5716.7
7.5°	6581.6	6526.8	6377.6	6237.5	5987.7	5683.2	5506.5	5339.0	5125.8	5101.5	5058.8
10°	6599.9	6484.2	6292.3	5993.8	5661.9	5323.8	4921.8	4611.1	4446.6	4318.7	4270.0
12.5°	6572.5	6523.8	6155.3	5771.5	5269.0	4739.0	4270.0	3831.4	3526.9	3368.5	3325.8
15°	6569.5	6484.2	6003.0	5433.4	4790.8	4099.4	3432.4	2905.5	2585.8	2454.8	2454.8
17.5°	6572.5	6368.4	5823.3	5092.3	4227.4	3292.3	2558.3	2125.9	1949.2	1930.9	1946.2
20°	6511.6	6283.2	5634.4	4690.3	3520.8	2473.1	1857.8	1681.2	1681.2	1705.6	1714.7
22.5°	6456.8	6155.3	5336.0	4193.9	2802.0	1790.8	1510.6	1458.9	1516.7	1559.4	1577.6
25°	6380.6	6048.7	5031.4	3679.1	2132.0	1443.6	1312.7	1324.9	1379.7	1455.8	1449.7
27.5°	6271.0	5862.9	4669.0	3082.2	1586.8	1245.7	1212.2	1218.3	1276.1	1309.6	1303.5
30°	6146.1	5674.0	4334.0	2488.3	1257.9	1142.1	1139.1	1154.3	1163.4	1181.7	1178.7
32.5°	5987.7	5424.3	3977.6	1934.0	1133.0	1084.2	1072.1	1062.9	1072.1	1069.0	1059.9
35°	5875.1	5290.3	3615.2	1474.1	1062.9	1032.5	1023.3	1008.1	995.9	977.7	974.6
37.5°	5844.6	5156.3	3234.5	1203.0	1008.1	992.9	962.4	935.0	919.8	910.6	904.6
40°	5826.3	5068.0	2862.9	1056.8	962.4	947.2	910.6	874.1	858.9	849.7	852.8
42.5°	5890.3	5019.2	2485.2	983.7	922.8	895.4	855.8	813.2	810.1	804.1	813.2
45°	6115.7	5080.1	2135.0	932.0	883.2	837.6	785.8	764.5	761.4	755.3	761.4
47.5°	6627.3	5232.4	1836.5	898.5	840.6	801.0	746.2	715.7	712.7	709.6	709.6
50°	7333.9	5701.4	1586.8	858.9	813.2	758.4	706.6	673.1	667.0	654.8	654.8
52.5°	8442.5	6490.3	1437.5	837.6	764.5	718.8	664.0	627.4	612.2	600.0	600.0
55°	9691.2	7467.9	1410.1	801.0	712.7	670.0	621.3	584.8	569.5	554.3	548.2
57.5°	11113.6	8762.3	1605.1	776.6	676.1	621.3	566.5	533.0	520.8	505.6	499.5
60°	12438.4	10053.7	2211.1	740.1	642.6	575.6	520.8	487.3	472.1	456.8	456.8
62.5°	13970.4	11652.6	3237.5	740.1	612.2	526.9	472.1	447.7	438.6	423.3	420.3
65°	15782.5	13306.4	3986.8	785.8	603.0	484.3	426.4	402.0	392.9	383.8	380.7
67.5°	17162.2	14256.7	3429.4	907.6	642.6	447.7	380.7	365.5	359.4	350.2	344.2
70°	17308.4	13678.0	2068.0	980.7	682.2	411.2	341.1	325.9	325.9	316.7	310.7
72.5°	15995.7	12136.9	1391.9	874.1	618.3	368.5	301.5	289.3	283.2	277.2	274.1
75°	13385.6	10294.3	1099.5	697.5	475.1	304.6	261.9	249.7	240.6	237.6	231.5
77.5°	8990.7	6691.3	813.2	545.2	350.2	246.7	219.3	207.1	198.0	194.9	185.8
80°	3453.8	2549.2	523.9	395.9	246.7	194.9	173.6	161.4	155.3	146.2	140.1
82.5°	1017.2	825.4	292.4	243.7	158.4	134.0	124.9	115.7	106.6	97.5	94.4
85°	420.3	377.7	179.7	127.9	97.5	79.2	73.1	64.0	54.8	48.7	42.6
87.5°	194.9	161.4	82.2	48.7	33.5	18.3	9.1	3.0	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)