

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: P483219

Luminaire Tested: **IFLD-L-SA8C-735-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483219  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-735-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

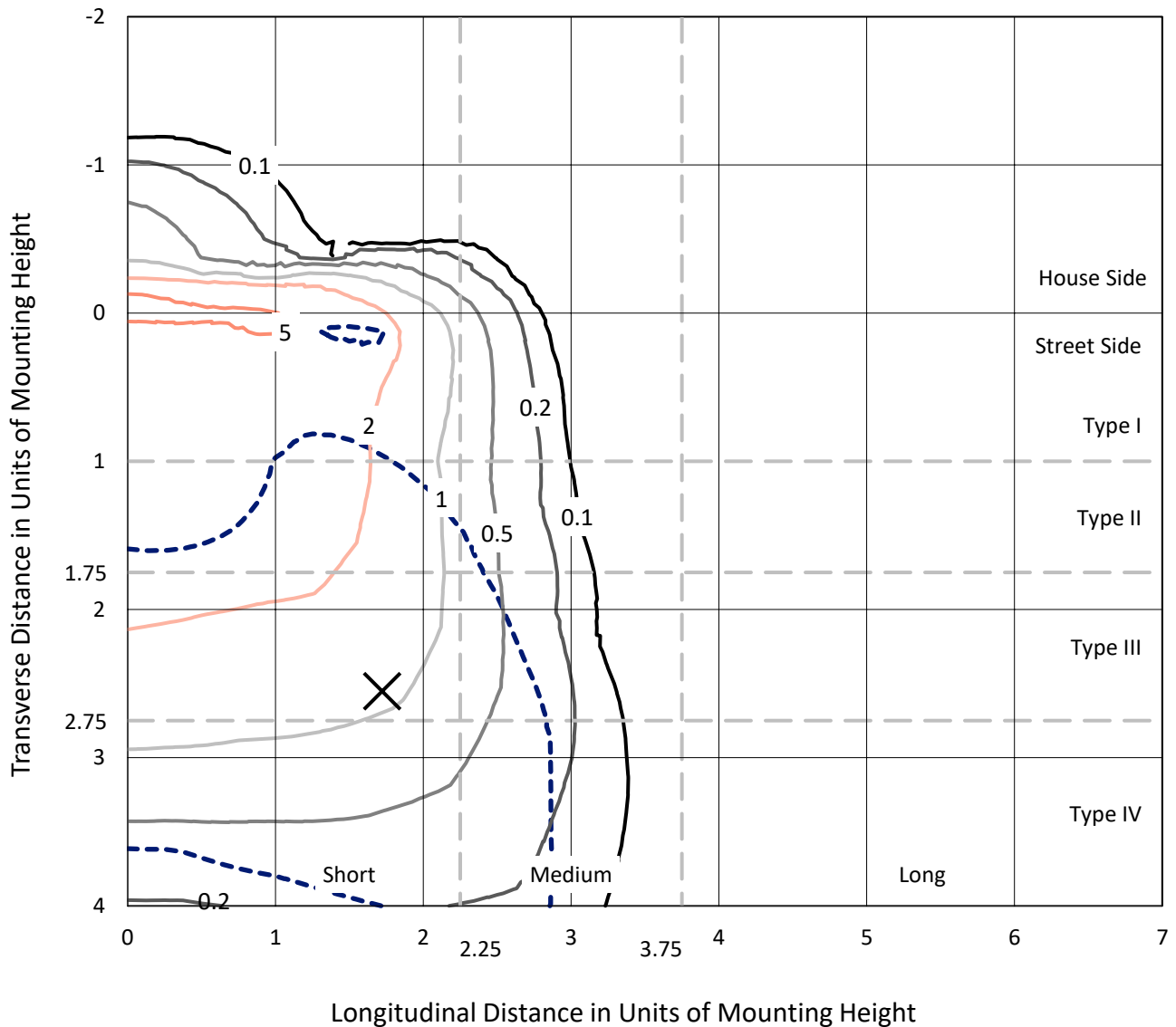
Lumens per Lamp: N/A  
Luminaire Lumens: 36132.6 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

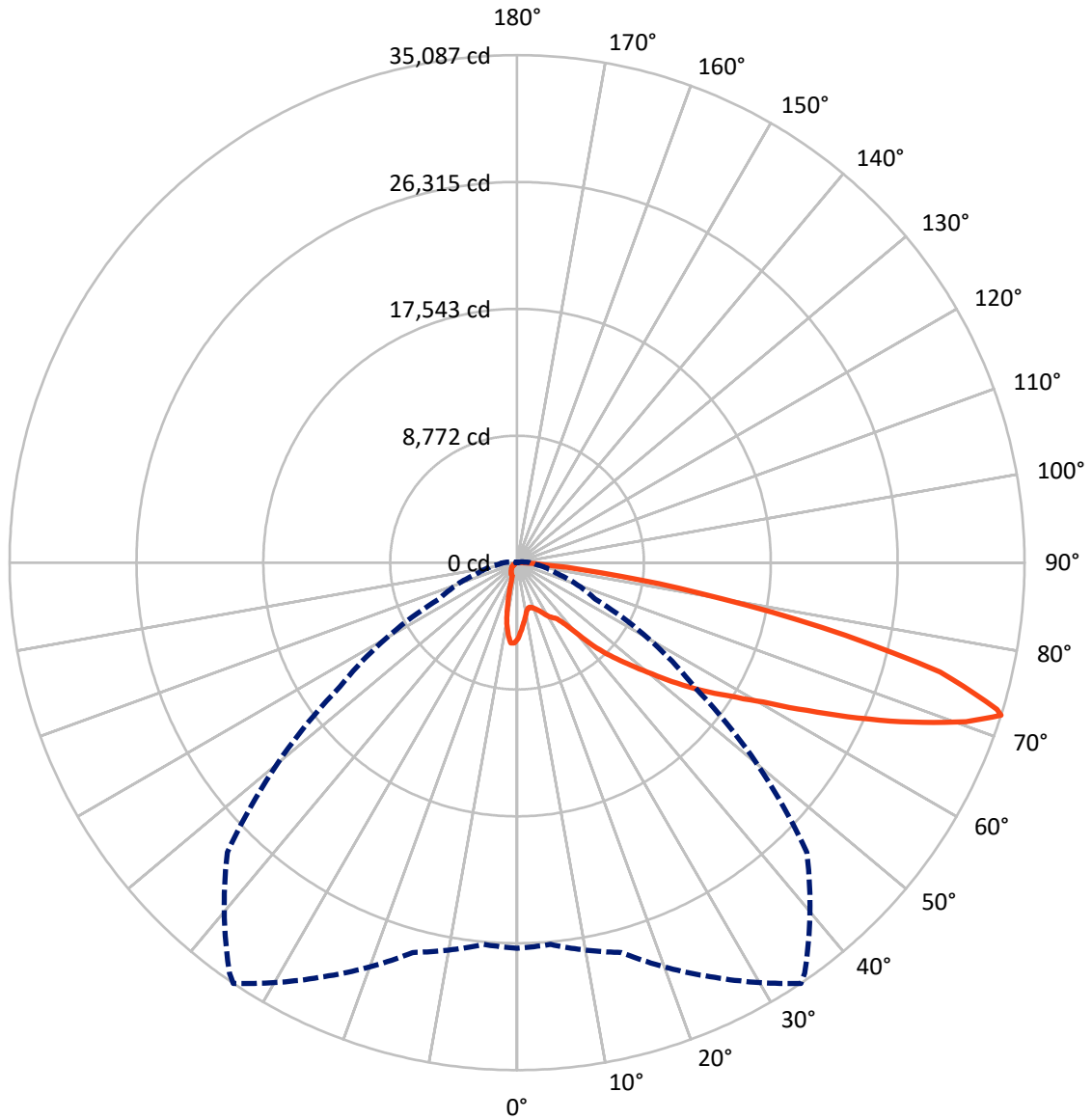
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3699.1	0.0	3699.1
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	32433.5	0.0	32433.5
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	36132.6	0.0	36132.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.9	1.3
10°-20°	1038.9	2.9
20°-30°	1568.1	4.3
30°-40°	2544.8	7.0
40°-50°	4785.3	13.2
50°-60°	7824.1	21.7
60°-70°	10401.0	28.8
70°-80°	6965.5	19.3
80°-90°	545.9	1.5
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°	36132.6	100.0
0°-180°	36132.6	100.0

**Coefficient of Utilization**



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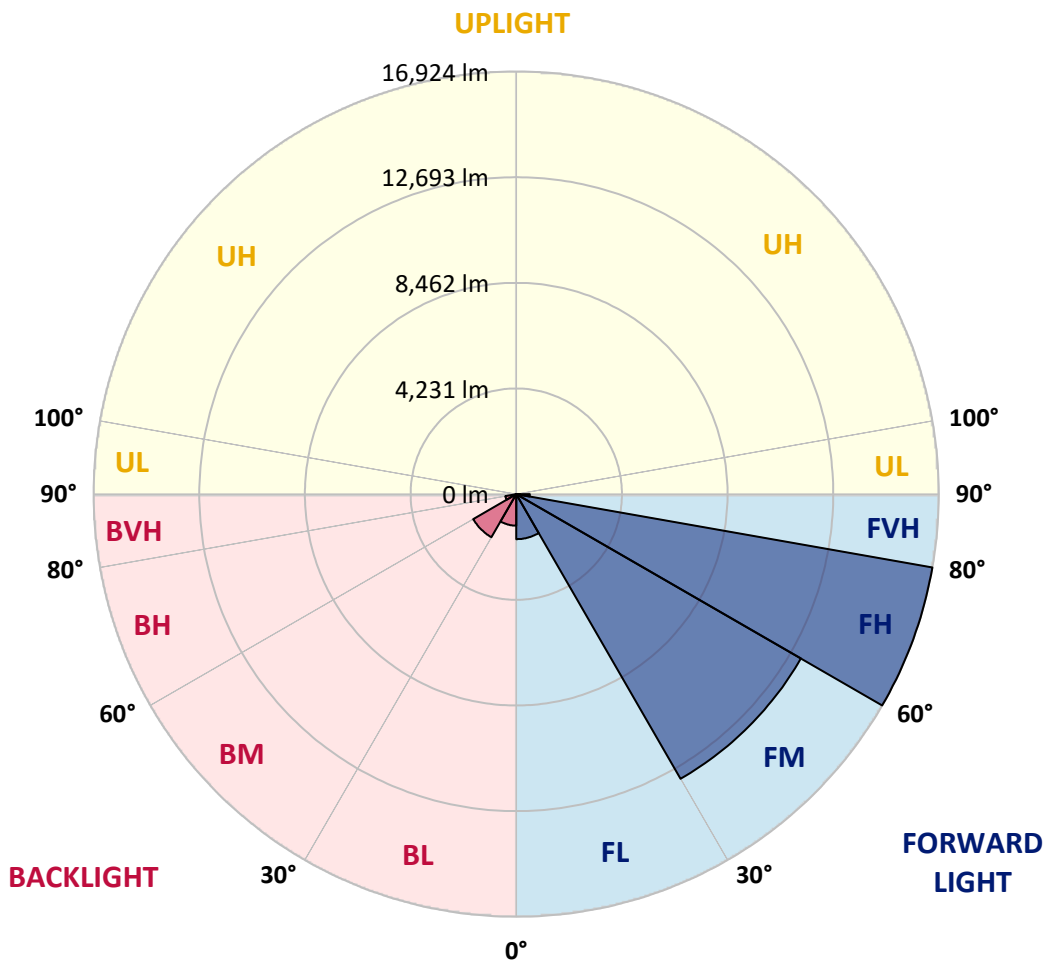
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1803.8	5.0			
FM (30°-60°)	13163.0	36.4			
FH (60°-80°)	16924.2	46.8			G5
FVH (80°-90°)	542.4	1.5			G4/750
BL (0°-30°)	1262.1	3.5	B3/2500		
BM (30°-60°)	1991.2	5.5	B2/2500		
BH (60°-80°)	442.3	1.2	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2
2.5°	4675.1	4664.6	4696.0	4748.2	4800.4	4779.5	4878.8	4983.3	5056.4	5155.6	5275.8
5°	4084.8	4110.9	4142.3	4246.7	4314.6	4330.3	4513.1	4649.0	4873.6	5103.4	5317.6
7.5°	3546.8	3578.1	3640.8	3755.7	3896.8	3933.3	4116.2	4387.8	4680.3	4983.3	5333.2
10°	3155.0	3186.4	3254.3	3327.4	3515.4	3515.4	3766.2	4142.3	4523.6	4878.8	5338.5
12.5°	3071.4	3087.1	3081.9	3139.4	3259.5	3285.6	3531.1	3943.8	4387.8	4842.2	5422.0
15°	3170.7	3181.1	3128.9	3097.6	3202.0	3228.2	3458.0	3823.6	4299.0	4863.1	5557.9
17.5°	3369.2	3332.6	3228.2	3181.1	3269.9	3285.6	3499.8	3818.4	4288.5	4920.6	5714.6
20°	3484.1	3525.9	3343.1	3254.3	3379.6	3400.5	3630.4	3902.0	4340.8	5019.8	5933.9
22.5°	3687.8	3708.7	3463.2	3405.8	3525.9	3525.9	3787.1	4069.1	4466.1	5181.8	6195.1
25°	3975.1	3949.0	3661.7	3604.2	3719.2	3766.2	4027.4	4335.5	4659.4	5333.2	6435.4
27.5°	4199.7	4215.4	3980.3	3828.9	4022.1	4053.5	4335.5	4622.8	4805.7	5458.6	6727.9
30°	4534.0	4502.7	4252.0	4079.6	4319.9	4325.1	4596.7	4894.5	5087.7	5683.2	7166.7
32.5°	4931.0	4868.3	4581.0	4335.5	4528.8	4575.8	4852.7	5286.2	5526.5	6106.3	7845.8
35°	5772.0	5620.5	5150.4	4769.1	4784.8	4805.7	5234.0	5855.6	6132.4	6644.3	8754.7
37.5°	6999.6	6936.9	6404.1	5678.0	5401.1	5338.5	5819.0	6607.8	6952.5	7354.8	9935.2
40°	8216.6	8127.8	7631.6	7083.1	6581.7	6456.3	6696.6	7605.5	7918.9	8342.0	11147.0
42.5°	9569.5	9412.8	8827.8	8383.8	8070.4	7934.6	7840.5	8859.1	9214.3	9501.6	12332.8
45°	10938.1	10682.2	9835.9	9496.4	9329.3	9256.1	9245.7	10436.6	10650.8	10708.3	13649.1
47.5°	12139.5	11862.7	11094.8	10713.5	10588.1	10567.2	11152.3	12254.4	12087.3	11935.8	15116.9
50°	13064.1	12886.5	12332.8	12197.0	12103.0	12066.4	13435.0	14124.5	13351.4	13085.0	16407.2
52.5°	14495.3	14098.3	13471.5	13518.5	13847.6	13852.8	15749.0	15900.5	14401.3	13873.7	17624.2
55°	15639.3	15378.1	14866.2	14798.3	15665.4	15759.4	17822.7	17248.1	14986.4	14625.9	18073.5
57.5°	16987.0	16866.8	16496.0	16506.4	17415.3	17613.8	19666.6	18386.9	15472.1	15111.7	18141.4
60°	18935.4	18590.6	18397.3	18486.1	19557.0	19750.2	21453.1	19207.0	15707.2	15430.4	17974.2
62.5°	21087.5	20685.2	20476.3	20930.7	22492.6	22523.9	22811.2	19933.0	15560.9	15513.9	16898.2
65°	23678.3	23281.3	23114.2	24028.3	25882.7	25767.7	24717.8	20241.2	15096.0	14672.9	14072.2
67.5°	26258.8	26018.5	25673.7	27131.1	29439.9	29439.9	26697.5	20126.3	13879.0	11779.1	9203.9
70°	27481.1	27648.2	28196.7	30484.6	32934.5	32683.7	28651.1	18804.8	10332.2	6325.7	3619.9
72°	26666.2	26493.8	27909.4	31581.6	35086.6	34673.9	28322.1	14949.8	5970.5	2773.7	1258.9
72.5°	25266.3	25428.2	27376.6	31430.1	34684.3	35023.9	27517.6	13790.2	4910.1	2209.6	950.7
75°	15493.0	15769.9	20434.5	26687.1	30223.4	29842.1	21285.9	6571.2	1885.7	940.2	339.5
77.5°	5657.1	5886.9	9914.3	16793.7	21494.9	21254.6	12317.1	2334.9	1023.8	700.0	172.4
80°	1473.0	1593.2	3369.2	7746.5	12641.0	12656.7	5155.6	935.0	694.7	574.6	104.5
82.5°	292.5	323.9	1034.3	3014.0	5907.8	5829.5	1629.7	501.5	522.4	470.1	73.1
85°	36.6	47.0	219.4	1023.8	1911.8	1713.3	402.2	250.7	386.5	365.6	47.0
87.5°	5.2	5.2	52.2	235.1	402.2	391.8	83.6	78.4	172.4	224.6	26.1
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°	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2	5286.2
2.5°	5343.7	5364.6	5437.7	5500.4	5573.5	5594.4	5563.1	5615.3	5542.2	5584.0	5594.4
5°	5354.1	5474.3	5610.1	5698.9	5678.0	5625.8	5584.0	5442.9	5343.7	5307.1	5385.5
7.5°	5427.3	5563.1	5709.3	5709.3	5594.4	5322.8	5061.6	4810.9	4601.9	4497.5	4586.3
10°	5521.3	5662.3	5813.8	5615.3	5187.0	4690.7	4319.9	3849.8	3531.1	3364.0	3379.6
12.5°	5646.7	5845.1	5897.4	5437.7	4727.3	3990.8	3317.0	2664.0	2361.0	2120.8	2126.0
15°	5808.6	6001.9	5845.1	5051.2	4142.3	3055.8	2246.1	1624.5	1384.2	1258.9	1258.9
17.5°	6022.7	6169.0	5829.5	4696.0	3353.5	2089.4	1379.0	1096.9	1044.7	1023.8	1023.8
20°	6273.5	6383.2	5678.0	4142.3	2491.6	1342.5	1013.4	982.0	987.3	976.8	976.8
22.5°	6555.5	6592.1	5505.6	3499.8	1687.2	992.5	945.5	950.7	955.9	945.5	950.7
25°	6853.3	6754.0	5254.9	2747.6	1123.1	903.7	914.1	924.6	929.8	935.0	935.0
27.5°	7187.6	6989.1	4904.9	2011.1	877.6	851.4	882.8	914.1	919.3	919.3	914.1
30°	7678.6	7349.5	4565.4	1363.3	773.1	794.0	846.2	882.8	908.9	908.9	903.7
32.5°	8300.2	7725.6	4090.0	929.8	715.6	726.1	767.9	841.0	898.4	903.7	888.0
35°	9162.1	8180.1	3593.8	741.7	673.8	679.1	705.2	762.6	861.9	893.2	888.0
37.5°	10071.0	8697.2	2977.4	668.6	642.5	637.3	652.9	700.0	788.8	867.1	872.3
40°	11037.4	9240.5	2329.7	632.0	616.4	605.9	611.2	632.0	700.0	799.2	820.1
42.5°	11946.2	9731.5	1749.9	595.5	590.3	579.8	579.8	585.0	621.6	689.5	700.0
45°	12928.3	10133.7	1332.0	569.4	553.7	558.9	538.0	527.6	553.7	558.9	553.7
47.5°	13847.6	10535.9	1065.6	538.0	522.4	522.4	496.2	475.3	475.3	428.3	423.1
50°	14709.5	10755.3	851.4	496.2	491.0	485.8	449.2	412.7	381.3	323.9	313.4
52.5°	15425.1	10744.8	658.2	444.0	459.7	444.0	386.5	334.3	287.3	235.1	224.6
55°	15639.3	10243.4	496.2	365.6	391.8	370.9	308.2	261.2	208.9	167.2	161.9
57.5°	15456.5	9480.7	376.1	282.1	303.0	282.1	235.1	193.3	146.3	114.9	104.5
60°	14845.3	8587.5	292.5	219.4	229.8	214.2	177.6	146.3	104.5	73.1	62.7
62.5°	13685.7	7469.7	224.6	172.4	167.2	167.2	135.8	109.7	73.1	41.8	36.6
65°	11230.6	5824.3	172.4	120.1	120.1	120.1	104.5	78.4	47.0	20.9	10.4
67.5°	7051.8	3390.1	141.0	94.0	88.8	88.8	73.1	52.2	26.1	5.2	0.0
70°	2653.6	1243.2	109.7	73.1	67.9	67.9	52.2	31.3	15.7	0.0	0.0
72°	914.1	475.3	88.8	52.2	52.2	47.0	36.6	26.1	10.4	0.0	0.0
72.5°	752.2	381.3	83.6	52.2	47.0	47.0	36.6	26.1	10.4	0.0	0.0
75°	271.6	156.7	57.5	36.6	31.3	31.3	26.1	15.7	5.2	0.0	0.0
77.5°	135.8	99.2	47.0	31.3	26.1	15.7	15.7	10.4	5.2	0.0	0.0
80°	83.6	62.7	26.1	20.9	15.7	10.4	5.2	5.2	0.0	0.0	0.0
82.5°	57.5	36.6	15.7	15.7	10.4	5.2	0.0	0.0	0.0	0.0	0.0
85°	36.6	15.7	10.4	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	10.4	5.2	0.0	0.0	0.0	0.0	0.0	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)