

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: P479472

Luminaire Tested: **IFLD-L-SA7E-827-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479472  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-827-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

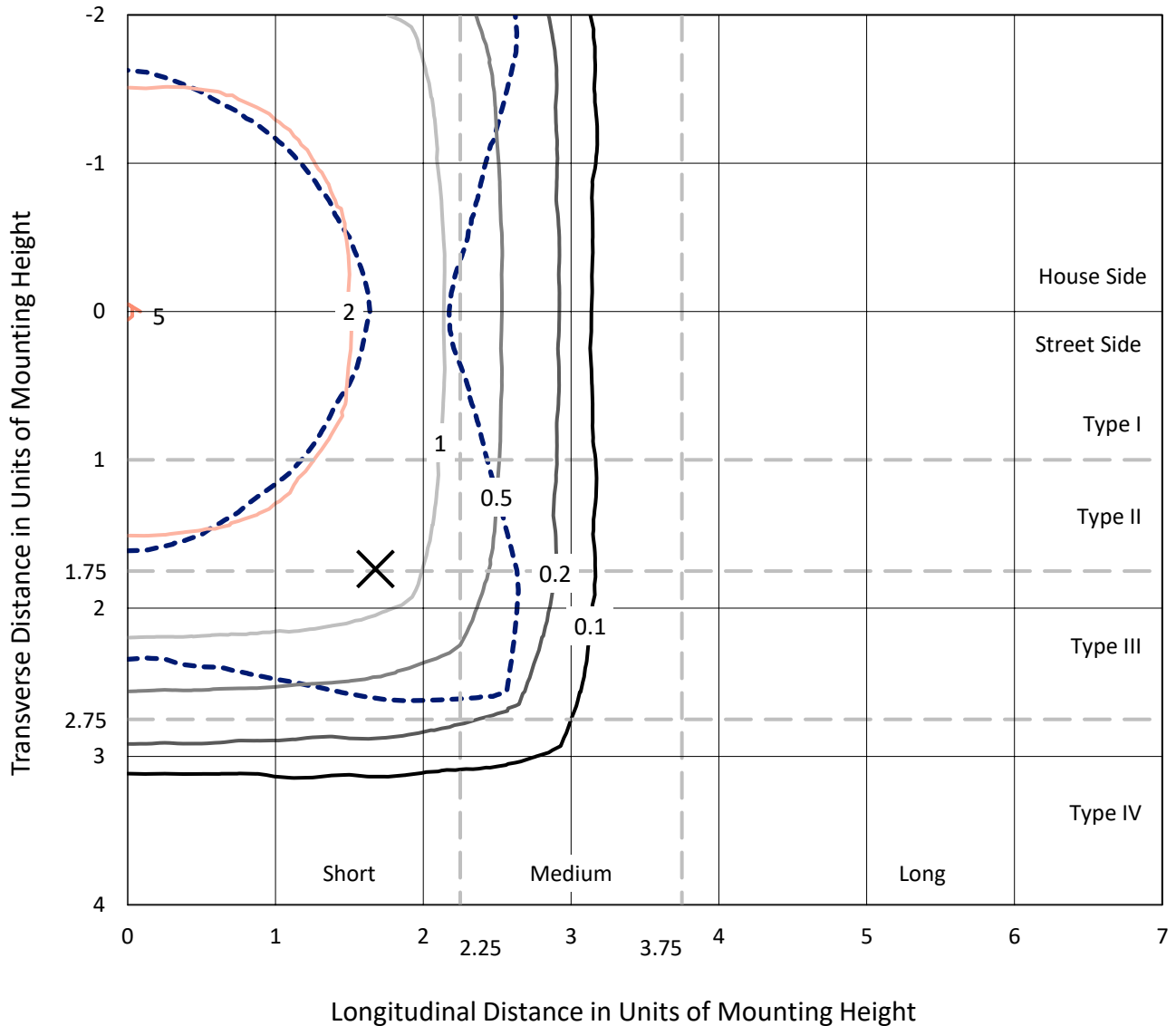
Lumens per Lamp: N/A  
Luminaire Lumens: 41887.9 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 532.7  
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

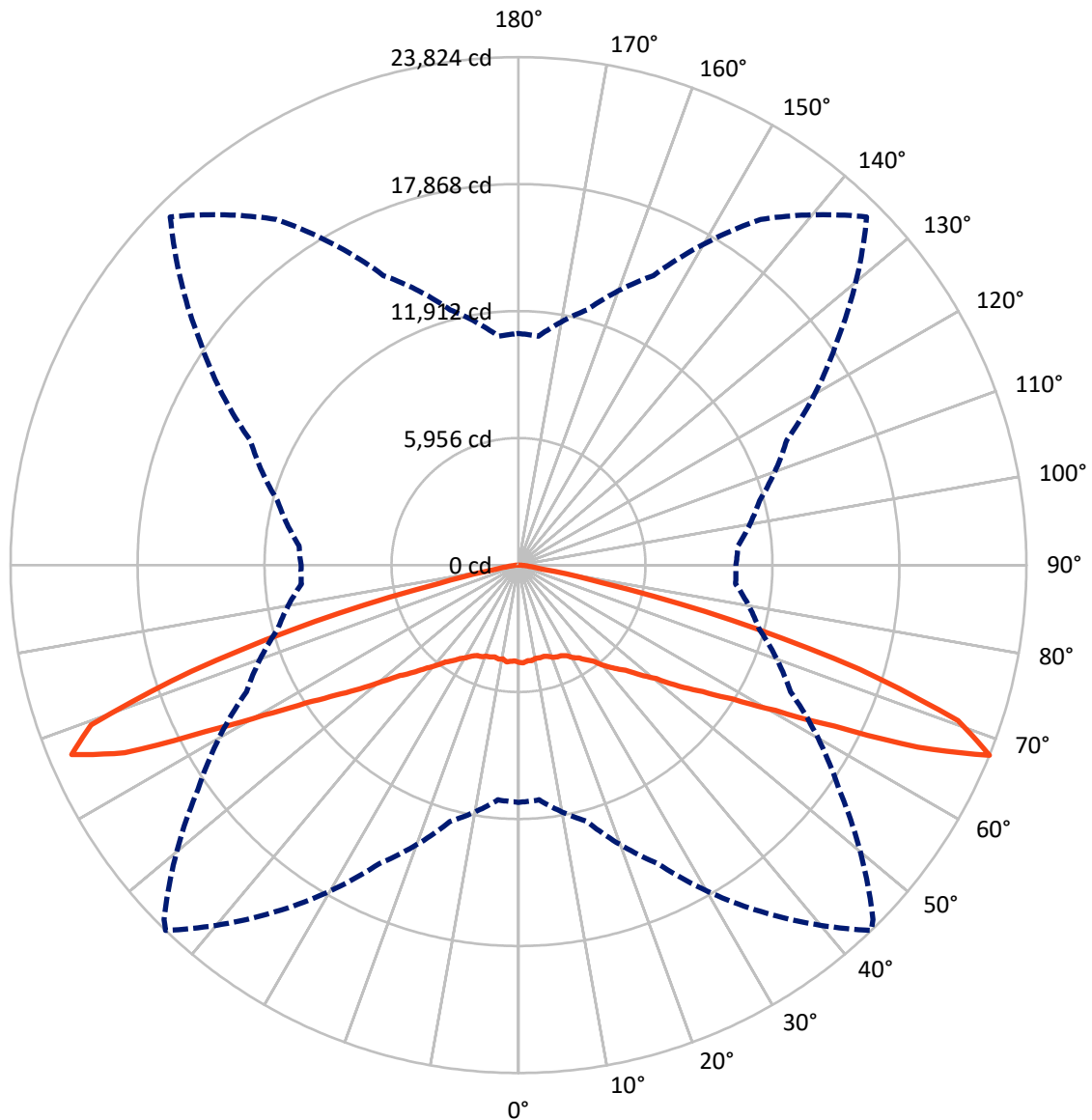
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20890.3	0.0	20890.3
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	20997.6	0.0	20997.6
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	41887.9	0.0	41887.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.0	1.0
10°-20°	1264.9	3.0
20°-30°	2151.1	5.1
30°-40°	3410.7	8.1
40°-50°	5561.4	13.3
50°-60°	9498.1	22.7
60°-70°	14446.5	34.5
70°-80°	4869.4	11.6
80°-90°	252.8	0.6
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°	41887.9	100.0
0°-180°	41887.9	100.0

**Coefficient of Utilization**



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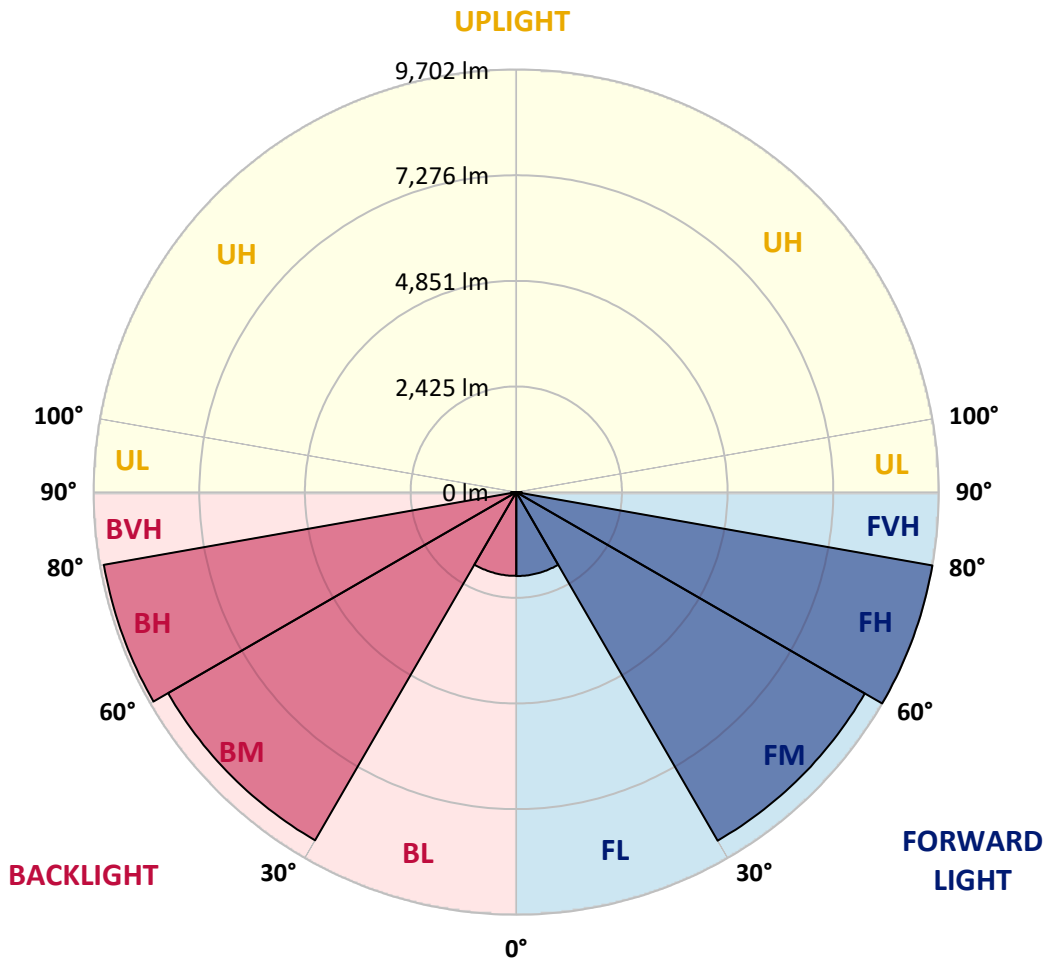
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1926.5	4.6			
FM (30°-60°)	9240.1	22.1			
FH (60°-80°)	9701.7	23.2			G4/12000
FVH (80°-90°)	129.3	0.3			G2/225
BL (0°-30°)	1922.5	4.6	B3/2500		
BM (30°-60°)	9230.1	22.0	B5		
BH (60°-80°)	9614.2	23.0	B5		G4/12000
BVH (80°-90°)	123.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5
2.5°	4470.3	4522.9	4561.2	4556.4	4570.7	4585.1	4566.0	4594.7	4575.5	4609.0	4628.1
5°	4556.4	4542.1	4546.8	4518.2	4585.1	4508.6	4508.6	4546.8	4594.7	4537.3	4570.7
7.5°	4503.8	4494.3	4470.3	4513.4	4527.7	4527.7	4566.0	4494.3	4575.5	4594.7	4599.4
10°	4446.4	4393.8	4465.6	4508.6	4518.2	4441.7	4475.1	4494.3	4470.3	4494.3	4508.6
12.5°	4398.6	4427.3	4427.3	4427.3	4413.0	4465.6	4499.0	4494.3	4446.4	4489.5	4413.0
15°	4393.8	4379.5	4422.5	4460.8	4436.9	4446.4	4460.8	4503.8	4413.0	4432.1	4432.1
17.5°	4389.1	4408.2	4422.5	4417.8	4499.0	4499.0	4484.7	4456.0	4527.7	4489.5	4436.9
20°	4408.2	4393.8	4432.1	4446.4	4503.8	4618.6	4575.5	4551.6	4513.4	4465.6	4465.6
22.5°	4432.1	4422.5	4475.1	4537.3	4647.2	4675.9	4671.2	4642.5	4575.5	4518.2	4508.6
25°	4518.2	4432.1	4489.5	4609.0	4647.2	4704.6	4742.9	4704.6	4613.8	4628.1	4542.1
27.5°	4647.2	4632.9	4709.4	4790.7	4757.2	4809.8	4776.3	4805.0	4809.8	4738.1	4652.0
30°	4800.2	4757.2	4805.0	4962.8	4977.1	5034.5	4977.1	4900.6	4924.6	4862.4	4819.4
32.5°	5020.2	5005.8	5096.7	5201.9	5221.0	5192.3	5163.6	5206.6	5106.2	5058.4	4981.9
35°	5163.6	5225.8	5335.7	5417.0	5479.2	5450.5	5464.8	5421.8	5445.7	5345.3	5311.8
37.5°	5589.1	5565.2	5589.1	5727.8	5742.1	5727.8	5742.1	5789.9	5756.5	5670.4	5584.3
40°	5990.7	5952.5	6009.9	6167.6	6158.1	6205.9	6110.3	6162.9	6162.9	6000.3	5966.8
42.5°	6292.0	6421.0	6488.0	6617.1	6664.9	6621.8	6602.7	6612.3	6717.5	6526.2	6454.5
45°	6913.5	6908.7	7109.5	7181.2	7047.4	7037.8	6999.6	7114.3	7186.0	7076.1	7047.4
47.5°	7587.6	7621.1	7735.8	7764.5	7845.8	7697.6	7697.6	7711.9	7965.3	7707.2	7573.3
50°	8194.8	8237.9	8467.4	8692.1	8539.1	8381.3	8443.5	8520.0	8658.6	8414.8	8300.0
52.5°	8931.1	9165.4	9318.4	9437.9	9547.9	9437.9	9294.5	9380.6	9653.1	9328.0	9184.5
55°	9992.5	10179.0	10322.4	10542.4	10633.2	10485.0	10470.6	10461.1	10614.1	10269.8	10073.8
57.5°	11178.3	11101.8	11331.2	11670.7	12000.6	11857.2	11814.1	11823.7	11862.0	11374.3	11226.1
60°	12650.8	12736.9	13009.4	13305.9	13654.9	13855.7	13573.6	13411.0	13444.5	12779.9	12550.4
62.5°	13492.3	13683.6	14300.3	15318.7	16021.5	16647.9	16690.9	15634.3	14926.6	13635.7	12660.4
65°	13085.9	13057.2	14219.0	16102.8	18765.9	20587.5	20315.0	17752.3	15280.5	13229.4	11919.3
67.5°	11130.4	11053.9	12459.6	15447.8	19846.4	23824.3	23513.5	18349.9	14085.2	11704.2	10222.0
70°	7171.7	7152.6	8677.7	11775.9	17718.8	21873.6	21988.4	16667.0	11465.1	8572.5	7104.7
72.5°	2605.7	2763.5	3648.0	6330.2	12034.1	16733.9	16805.6	12340.1	6593.2	3963.5	2921.3
75°	961.0	989.7	1152.2	2055.9	5483.9	10274.6	10542.4	5986.0	2342.7	1290.9	1051.8
77.5°	554.6	559.4	616.8	765.0	1625.6	4011.4	4173.9	1816.8	908.4	688.5	635.9
80°	377.7	372.9	435.1	497.2	650.2	1137.9	1209.6	760.2	573.7	478.1	401.6
82.5°	219.9	234.3	320.3	353.8	396.8	502.0	511.6	473.3	430.3	353.8	263.0
85°	133.9	110.0	176.9	196.0	229.5	224.7	224.7	258.2	277.3	248.6	148.2
87.5°	33.5	33.5	43.0	47.8	62.2	47.8	52.6	100.4	133.9	124.3	76.5
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°	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5	4575.5
2.5°	4585.1	4570.7	4580.3	4632.9	4599.4	4499.0	4522.9	4575.5	4532.5	4508.6	4503.8
5°	4566.0	4594.7	4561.2	4570.7	4604.2	4522.9	4537.3	4604.2	4575.5	4585.1	4532.5
7.5°	4570.7	4585.1	4556.4	4513.4	4513.4	4580.3	4542.1	4551.6	4508.6	4580.3	4484.7
10°	4542.1	4503.8	4470.3	4494.3	4484.7	4465.6	4451.2	4479.9	4436.9	4499.0	4432.1
12.5°	4456.0	4465.6	4456.0	4446.4	4465.6	4513.4	4436.9	4446.4	4379.5	4389.1	4422.5
15°	4422.5	4451.2	4441.7	4494.3	4518.2	4446.4	4503.8	4446.4	4393.8	4365.2	4417.8
17.5°	4436.9	4479.9	4465.6	4503.8	4460.8	4513.4	4522.9	4499.0	4436.9	4413.0	4436.9
20°	4451.2	4436.9	4456.0	4522.9	4585.1	4532.5	4532.5	4518.2	4460.8	4427.3	4427.3
22.5°	4484.7	4460.8	4489.5	4542.1	4561.2	4642.5	4570.7	4537.3	4441.7	4355.6	4436.9
25°	4551.6	4566.0	4585.1	4566.0	4671.2	4661.6	4652.0	4628.1	4479.9	4484.7	4470.3
27.5°	4680.7	4599.4	4623.3	4738.1	4752.4	4790.7	4742.9	4785.9	4628.1	4632.9	4537.3
30°	4838.5	4752.4	4828.9	4929.3	4924.6	4996.3	4972.4	4981.9	4872.0	4809.8	4680.7
32.5°	5010.6	5001.0	5048.9	5111.0	5134.9	5173.2	5168.4	5168.4	5101.5	4938.9	4962.8
35°	5201.9	5268.8	5326.2	5393.1	5402.7	5450.5	5383.5	5393.1	5326.2	5206.6	5244.9
37.5°	5579.6	5574.8	5636.9	5718.2	5727.8	5689.5	5742.1	5718.2	5627.4	5546.1	5483.9
40°	6019.4	5923.8	5981.2	6172.4	6186.8	6119.8	6115.0	6110.3	6043.3	5866.4	5828.2
42.5°	6401.9	6526.2	6516.7	6578.8	6535.8	6502.3	6621.8	6554.9	6502.3	6315.9	6282.4
45°	6894.4	6932.6	7056.9	7257.7	7052.1	7052.1	7133.4	7080.8	7052.1	6913.5	6784.4
47.5°	7506.4	7539.8	7788.4	7802.8	7668.9	7578.1	7831.5	7841.0	7721.5	7616.3	7458.5
50°	8223.5	8237.9	8462.6	8692.1	8543.9	8371.7	8629.9	8730.3	8462.6	8319.1	8123.1
52.5°	9012.4	8969.4	9155.8	9586.1	9442.7	9390.1	9667.4	9691.3	9328.0	9103.2	9155.8
55°	9920.8	9863.4	10370.2	10661.9	10571.1	10475.4	10599.7	10657.1	10365.5	9997.3	10126.4
57.5°	11097.0	11125.7	11379.1	11665.9	11814.1	11838.0	11895.4	11838.0	11541.6	11168.7	11049.2
60°	12273.1	12359.2	12851.6	13391.9	13439.7	13860.5	13784.0	13497.1	13076.4	12545.7	12569.6
62.5°	12708.2	12636.5	13430.2	14749.7	15873.3	16643.1	16303.6	15285.2	14309.9	13344.1	13415.8
65°	11833.3	12010.2	13090.7	15156.1	17594.5	20640.1	18832.8	16016.7	14046.9	12799.1	12660.4
67.5°	10198.1	10332.0	11704.2	13884.4	18211.3	23097.6	19789.0	14984.0	12387.9	10771.9	10857.9
70°	7104.7	7171.7	8515.2	11374.3	16514.0	21797.1	17852.7	11508.2	8553.4	6817.9	6913.5
72.5°	2859.1	3021.7	3906.2	6851.3	12191.9	16561.8	12019.7	6038.6	3547.6	2639.2	2395.3
75°	1056.6	1061.4	1247.9	2357.1	5789.9	10408.5	5421.8	1941.1	1133.1	927.5	884.5
77.5°	612.0	607.2	650.2	851.0	1678.2	4064.0	1539.5	760.2	616.8	554.6	530.7
80°	382.5	377.7	444.6	564.2	736.3	1114.0	650.2	473.3	416.0	358.6	358.6
82.5°	243.8	248.6	349.0	416.0	449.4	492.5	377.7	334.7	310.8	205.6	200.8
85°	157.8	143.4	243.8	277.3	248.6	219.9	210.4	176.9	162.6	100.4	110.0
87.5°	71.7	76.5	124.3	138.7	90.8	52.6	52.6	38.2	38.2	23.9	23.9
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)