

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: P479228

Luminaire Tested: **IFLD-S-SA6E-727-U-5MQ**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P479228  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-727-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

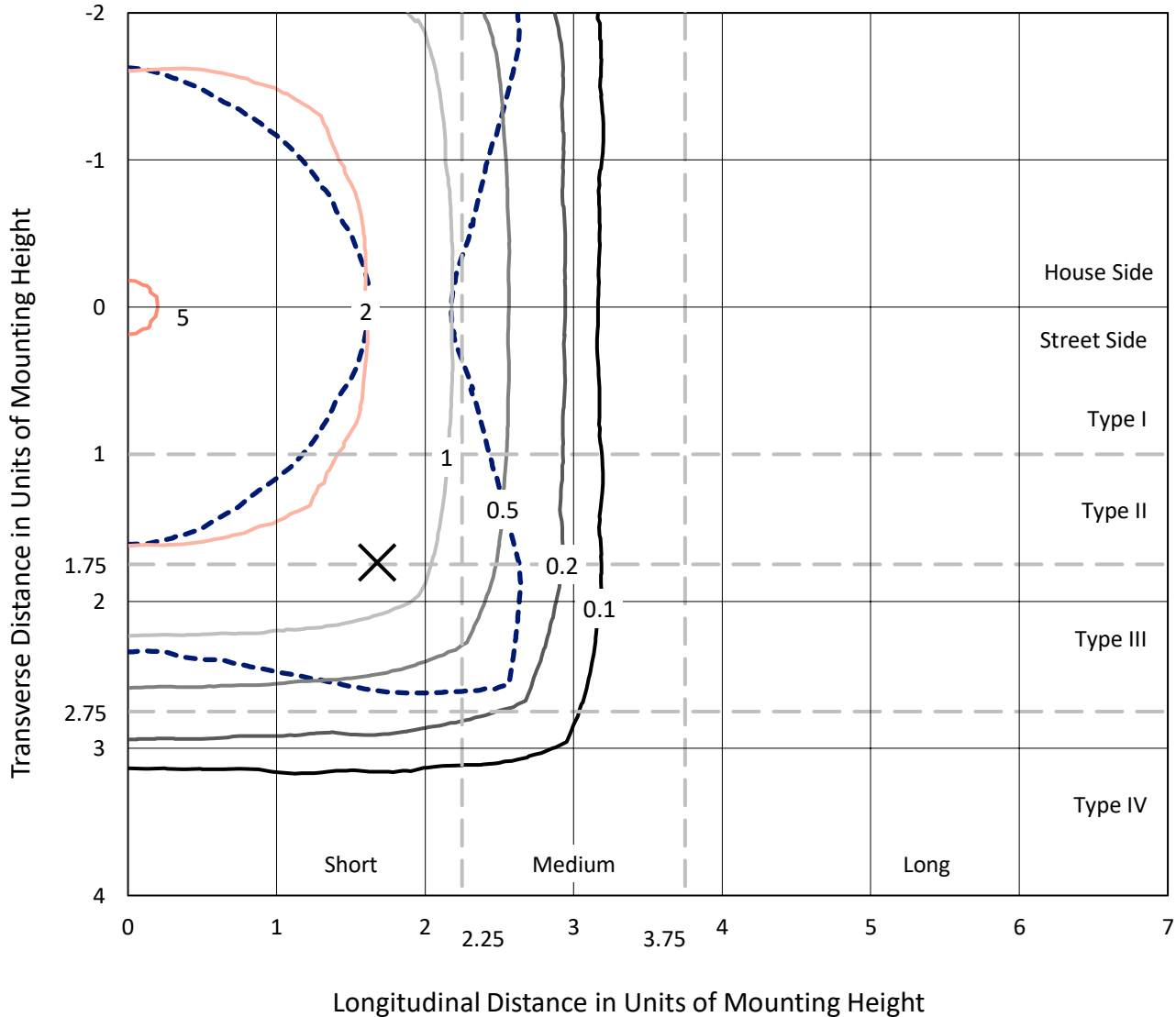
Lumens per Lamp: N/A  
Luminaire Lumens: 44667.5 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

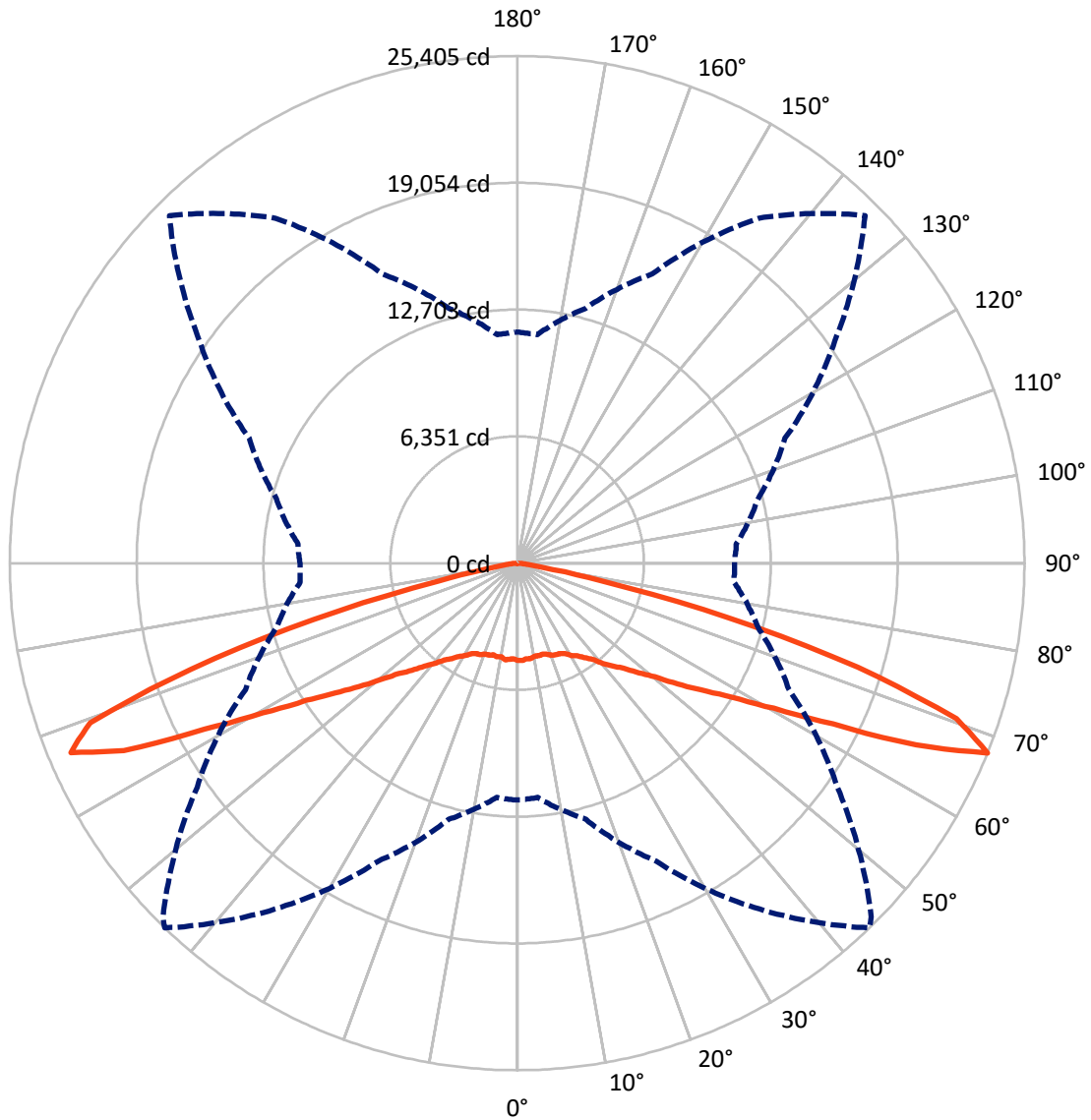
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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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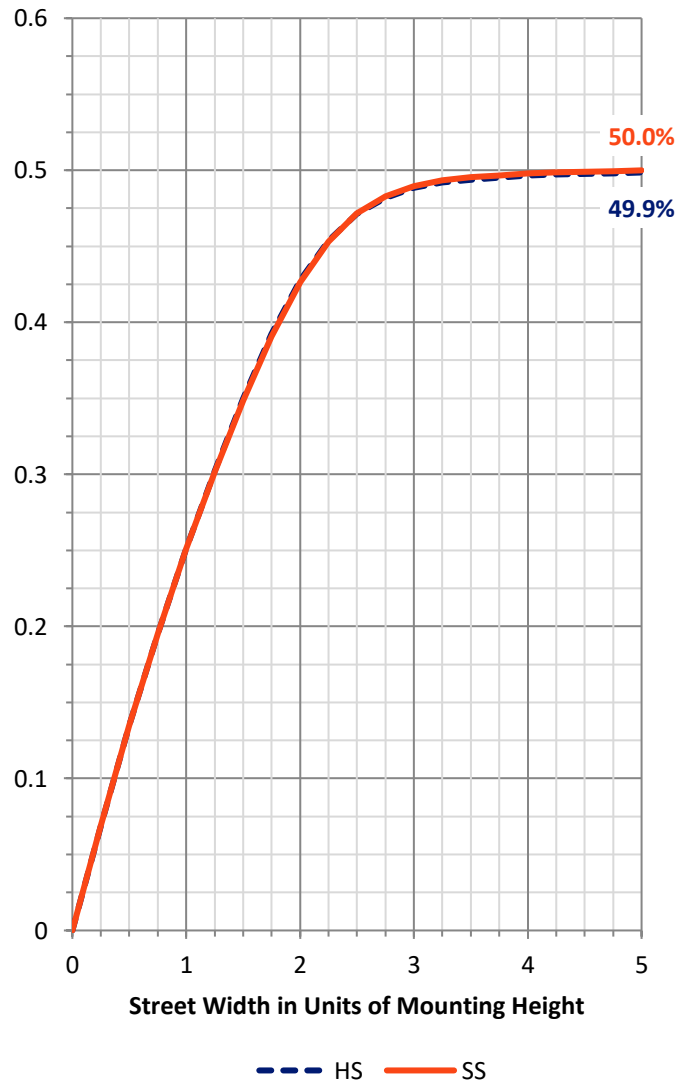
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22276.5	0.0	22276.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	22390.9	0.0	22390.9
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	44667.5	0.0	44667.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.7	1.0
10°-20°	1348.9	3.0
20°-30°	2293.9	5.1
30°-40°	3637.0	8.1
40°-50°	5930.4	13.3
50°-60°	10128.4	22.7
60°-70°	15405.1	34.5
70°-80°	5192.5	11.6
80°-90°	269.6	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°	44667.5	100.0
0°-180°	44667.5	100.0

**Coefficient of Utilization**



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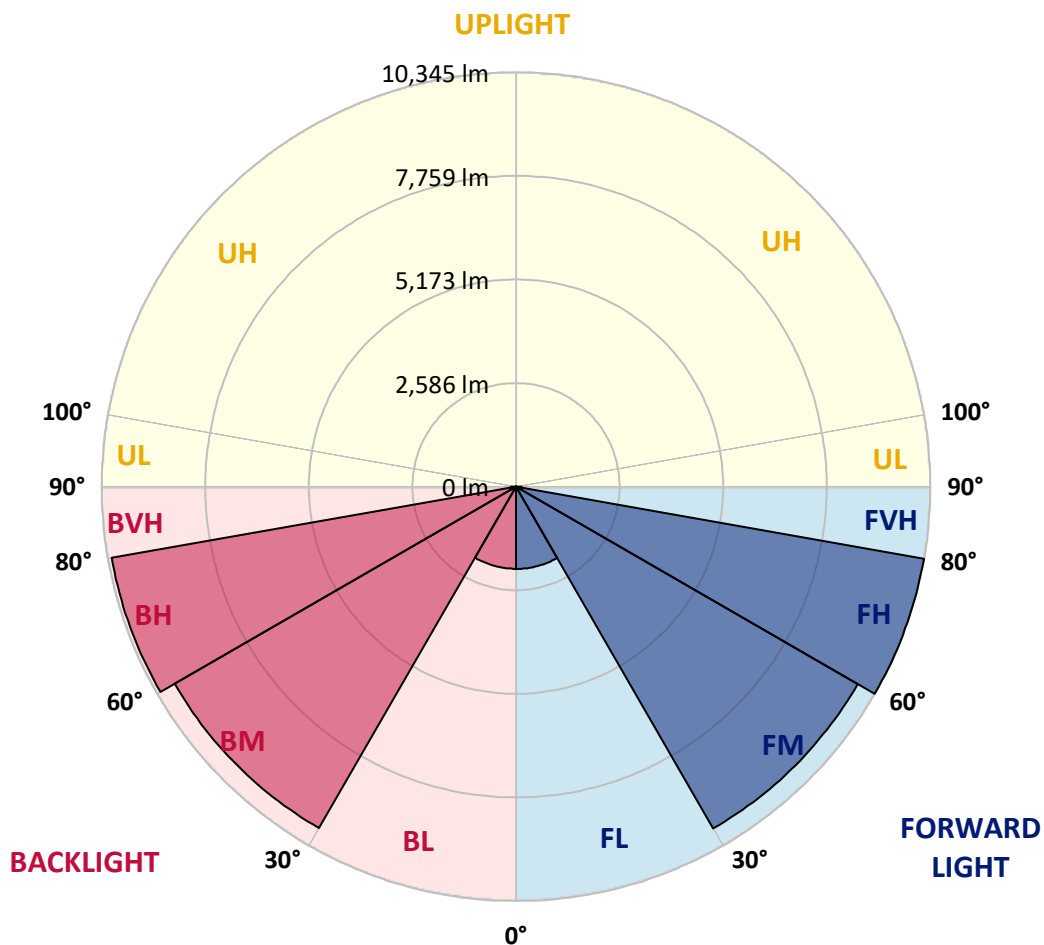
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2054.3	4.6			
FM (30°-60°)	9853.2	22.1			
FH (60°-80°)	10345.5	23.2			G4/12000
FVH (80°-90°)	137.9	0.3			G2/225
BL (0°-30°)	2050.1	4.6	B3/2500		
BM (30°-60°)	9842.6	22.0	B5		
BH (60°-80°)	10252.2	23.0	B5		G4/12000
BVH (80°-90°)	131.7	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°	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2
2.5°	4767.0	4823.1	4863.9	4858.8	4874.1	4889.3	4869.0	4899.5	4879.2	4914.8	4935.2
5°	4858.8	4843.5	4848.6	4818.0	4889.3	4807.8	4807.8	4848.6	4899.5	4838.4	4874.1
7.5°	4802.7	4792.5	4767.0	4812.9	4828.2	4828.2	4869.0	4792.5	4879.2	4899.5	4904.6
10°	4741.5	4685.4	4761.9	4807.8	4818.0	4736.4	4772.1	4792.5	4767.0	4792.5	4807.8
12.5°	4690.5	4721.1	4721.1	4721.1	4705.8	4761.9	4797.6	4792.5	4741.5	4787.4	4705.8
15°	4685.4	4670.1	4716.0	4756.8	4731.3	4741.5	4756.8	4802.7	4705.8	4726.2	4726.2
17.5°	4680.3	4700.7	4716.0	4710.9	4797.6	4797.6	4782.3	4751.7	4828.2	4787.4	4731.3
20°	4700.7	4685.4	4726.2	4741.5	4802.7	4925.0	4879.2	4853.7	4812.9	4761.9	4761.9
22.5°	4726.2	4716.0	4772.1	4838.4	4955.6	4986.2	4981.1	4950.5	4879.2	4818.0	4807.8
25°	4818.0	4726.2	4787.4	4914.8	4955.6	5016.8	5057.6	5016.8	4919.9	4935.2	4843.5
27.5°	4955.6	4940.3	5021.9	5108.6	5072.9	5129.0	5093.3	5123.9	5129.0	5052.5	4960.7
30°	5118.8	5072.9	5123.9	5292.1	5307.4	5368.6	5307.4	5225.8	5251.3	5185.1	5139.2
32.5°	5353.3	5338.0	5434.9	5547.0	5567.4	5536.8	5506.3	5552.1	5445.1	5394.1	5312.5
35°	5506.3	5572.5	5689.8	5776.5	5842.7	5812.2	5827.4	5781.6	5807.1	5700.0	5664.3
37.5°	5960.0	5934.5	5960.0	6107.9	6123.2	6107.9	6123.2	6174.1	6138.5	6046.7	5954.9
40°	6388.3	6347.5	6408.7	6576.9	6566.7	6617.7	6515.7	6571.8	6571.8	6398.5	6362.8
42.5°	6709.5	6847.1	6918.5	7056.2	7107.1	7061.3	7040.9	7051.1	7163.2	6959.3	6882.8
45°	7372.3	7367.2	7581.3	7657.8	7515.0	7504.8	7464.0	7586.4	7662.9	7545.6	7515.0
47.5°	8091.1	8126.8	8249.2	8279.8	8366.4	8208.4	8208.4	8223.7	8493.9	8218.6	8075.8
50°	8738.6	8784.5	9029.2	9268.9	9105.7	8937.5	9003.7	9085.3	9233.2	8973.2	8850.8
52.5°	9523.8	9773.6	9936.7	10064.2	10181.5	10064.2	9911.3	10003.0	10293.6	9946.9	9794.0
55°	10655.6	10854.5	11007.4	11241.9	11338.8	11180.7	11165.5	11155.3	11318.4	10951.3	10742.3
57.5°	11920.0	11838.4	12083.2	12445.1	12796.9	12644.0	12598.1	12608.3	12649.1	12129.0	11971.0
60°	13490.3	13582.1	13872.7	14188.8	14561.0	14775.1	14474.3	14301.0	14336.6	13628.0	13383.2
62.5°	14387.6	14591.6	15249.3	16335.2	17084.7	17752.6	17798.4	16671.7	15917.1	14540.6	13500.5
65°	13954.3	13923.7	15162.6	17171.3	20011.1	21953.6	21663.0	18930.3	16294.4	14107.2	12710.3
67.5°	11869.0	11787.5	13286.4	16472.9	21163.4	25405.2	25073.8	19567.6	15019.8	12480.8	10900.3
70°	7647.6	7627.2	9253.6	12557.3	18894.6	23325.1	23447.5	17773.0	12225.9	9141.4	7576.2
72.5°	2778.6	2946.9	3890.1	6750.3	12832.6	17844.3	17920.8	13158.9	7030.7	4226.6	3115.1
75°	1024.8	1055.4	1228.7	2192.3	5847.8	10956.4	11241.9	6383.2	2498.2	1376.6	1121.6
77.5°	591.4	596.5	657.7	815.7	1733.4	4277.5	4450.9	1937.4	968.7	734.2	678.1
80°	402.8	397.7	464.0	530.2	693.4	1213.4	1289.9	810.6	611.8	509.8	428.3
82.5°	234.5	249.8	341.6	377.3	423.2	535.3	545.5	504.7	458.9	377.3	280.4
85°	142.8	117.3	188.6	209.0	244.7	239.6	239.6	275.3	295.7	265.1	158.0
87.5°	35.7	35.7	45.9	51.0	66.3	51.0	56.1	107.1	142.8	132.6	81.6
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°	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2	4879.2
2.5°	4889.3	4874.1	4884.2	4940.3	4904.6	4797.6	4823.1	4879.2	4833.3	4807.8	4802.7
5°	4869.0	4899.5	4863.9	4874.1	4909.7	4823.1	4838.4	4909.7	4879.2	4889.3	4833.3
7.5°	4874.1	4889.3	4858.8	4812.9	4812.9	4884.2	4843.5	4853.7	4807.8	4884.2	4782.3
10°	4843.5	4802.7	4767.0	4792.5	4782.3	4761.9	4746.6	4777.2	4731.3	4797.6	4726.2
12.5°	4751.7	4761.9	4751.7	4741.5	4761.9	4812.9	4731.3	4741.5	4670.1	4680.3	4716.0
15°	4716.0	4746.6	4736.4	4792.5	4818.0	4741.5	4802.7	4741.5	4685.4	4654.8	4710.9
17.5°	4731.3	4777.2	4761.9	4802.7	4756.8	4812.9	4823.1	4797.6	4731.3	4705.8	4731.3
20°	4746.6	4731.3	4751.7	4823.1	4889.3	4833.3	4833.3	4818.0	4756.8	4721.1	4721.1
22.5°	4782.3	4756.8	4787.4	4843.5	4863.9	4950.5	4874.1	4838.4	4736.4	4644.6	4731.3
25°	4853.7	4869.0	4889.3	4869.0	4981.1	4970.9	4960.7	4935.2	4777.2	4782.3	4767.0
27.5°	4991.3	4904.6	4930.1	5052.5	5067.8	5108.6	5057.6	5103.5	4935.2	4940.3	4838.4
30°	5159.6	5067.8	5149.4	5256.4	5251.3	5327.8	5302.3	5312.5	5195.3	5129.0	4991.3
32.5°	5343.1	5332.9	5383.9	5450.2	5475.7	5516.4	5511.3	5511.3	5440.0	5266.6	5292.1
35°	5547.0	5618.4	5679.6	5751.0	5761.2	5812.2	5740.8	5751.0	5679.6	5552.1	5592.9
37.5°	5949.8	5944.7	6011.0	6097.7	6107.9	6067.1	6123.2	6097.7	6000.8	5914.1	5847.8
40°	6418.9	6316.9	6378.1	6582.0	6597.3	6525.9	6520.8	6515.7	6444.4	6255.7	6214.9
42.5°	6826.7	6959.3	6949.1	7015.4	6969.5	6933.8	7061.3	6989.9	6933.8	6735.0	6699.3
45°	7351.9	7392.7	7525.2	7739.3	7520.1	7520.1	7606.8	7550.7	7520.1	7372.3	7234.6
47.5°	8004.5	8040.1	8305.3	8320.6	8177.8	8080.9	8351.1	8361.3	8233.9	8121.7	7953.5
50°	8769.2	8784.5	9024.1	9268.9	9110.8	8927.3	9202.6	9309.6	9024.1	8871.2	8662.1
52.5°	9610.4	9564.6	9763.4	10222.3	10069.3	10013.2	10308.9	10334.4	9946.9	9707.3	9763.4
55°	10579.1	10518.0	11058.4	11369.4	11272.5	11170.6	11303.1	11364.3	11053.3	10660.7	10798.4
57.5°	11833.3	11863.9	12134.1	12440.0	12598.1	12623.6	12684.8	12623.6	12307.5	11909.8	11782.4
60°	13087.5	13179.3	13704.4	14280.6	14331.5	14780.2	14698.6	14392.7	13944.1	13378.2	13403.6
62.5°	13551.5	13475.0	14321.4	15728.5	16926.6	17747.5	17385.5	16299.5	15259.5	14229.6	14306.1
65°	12618.5	12807.1	13959.4	16161.9	18762.0	22009.7	20082.5	17079.6	14979.0	13648.4	13500.5
67.5°	10874.8	11017.6	12480.8	14805.7	19419.7	24630.3	21102.2	15978.3	13209.9	11486.7	11578.4
70°	7576.2	7647.6	9080.2	12129.0	17609.8	23243.5	19037.4	12271.8	9121.0	7270.3	7372.3
72.5°	3048.8	3222.2	4165.4	7306.0	13000.9	17660.8	12817.3	6439.3	3783.0	2814.3	2554.3
75°	1126.7	1131.8	1330.7	2513.5	6174.1	11099.2	5781.6	2069.9	1208.3	989.1	943.2
77.5°	652.6	647.5	693.4	907.5	1789.5	4333.6	1641.7	810.6	657.7	591.4	565.9
80°	407.9	402.8	474.1	601.6	785.2	1187.9	693.4	504.7	443.6	382.4	382.4
82.5°	260.0	265.1	372.2	443.6	479.2	525.1	402.8	356.9	331.4	219.2	214.1
85°	168.2	153.0	260.0	295.7	265.1	234.5	224.3	188.6	173.3	107.1	117.3
87.5°	76.5	81.6	132.6	147.9	96.9	56.1	56.1	40.8	40.8	25.5	25.5
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)