

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: P478851

Luminaire Tested: **IFLD-L-SA8C-727-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478851  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-727-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

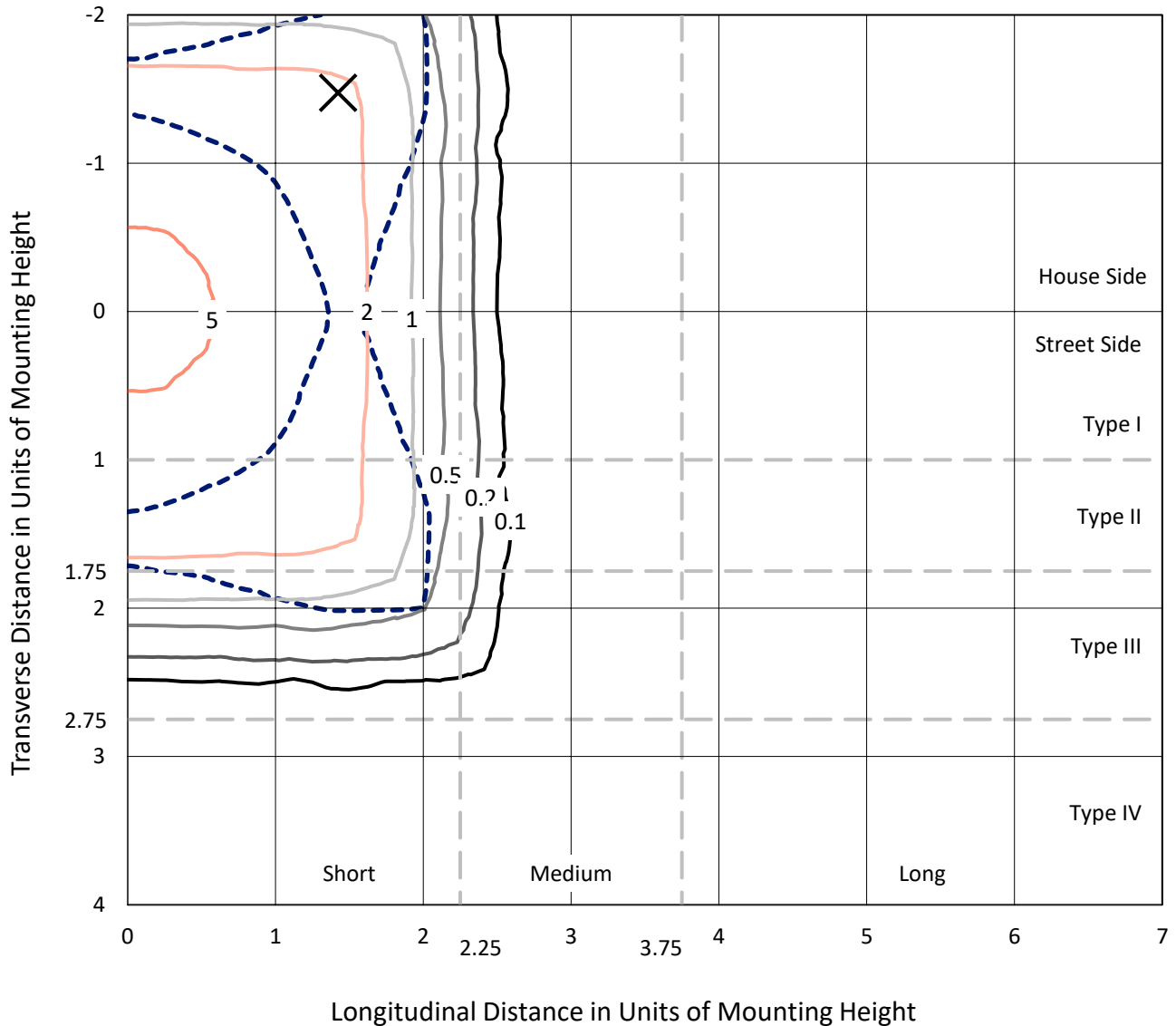
Lumens per Lamp: N/A  
Luminaire Lumens: 42259 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

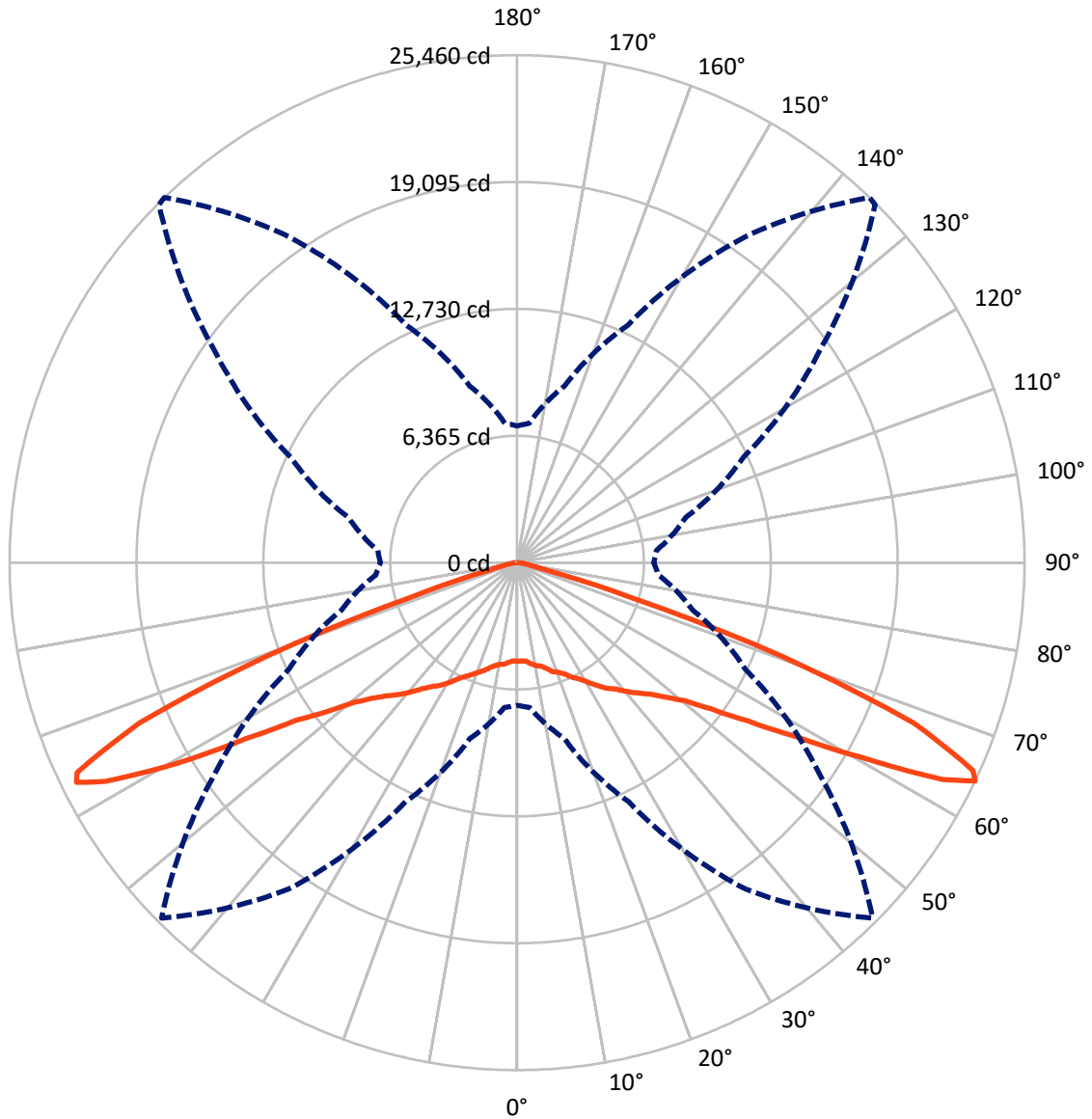
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21149.6	0.0	21149.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21109.4	0.0	21109.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42259.0	0.0	42259.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.1	1.2
10°-20°	1566.9	3.7
20°-30°	2944.7	7.0
30°-40°	4856.4	11.5
40°-50°	7595.1	18.0
50°-60°	12271.8	29.0
60°-70°	11049.9	26.1
70°-80°	1308.9	3.1
80°-90°	179.2	0.4
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°	42259.0	100.0
0°-180°	42259.0	100.0

**Coefficient of Utilization**



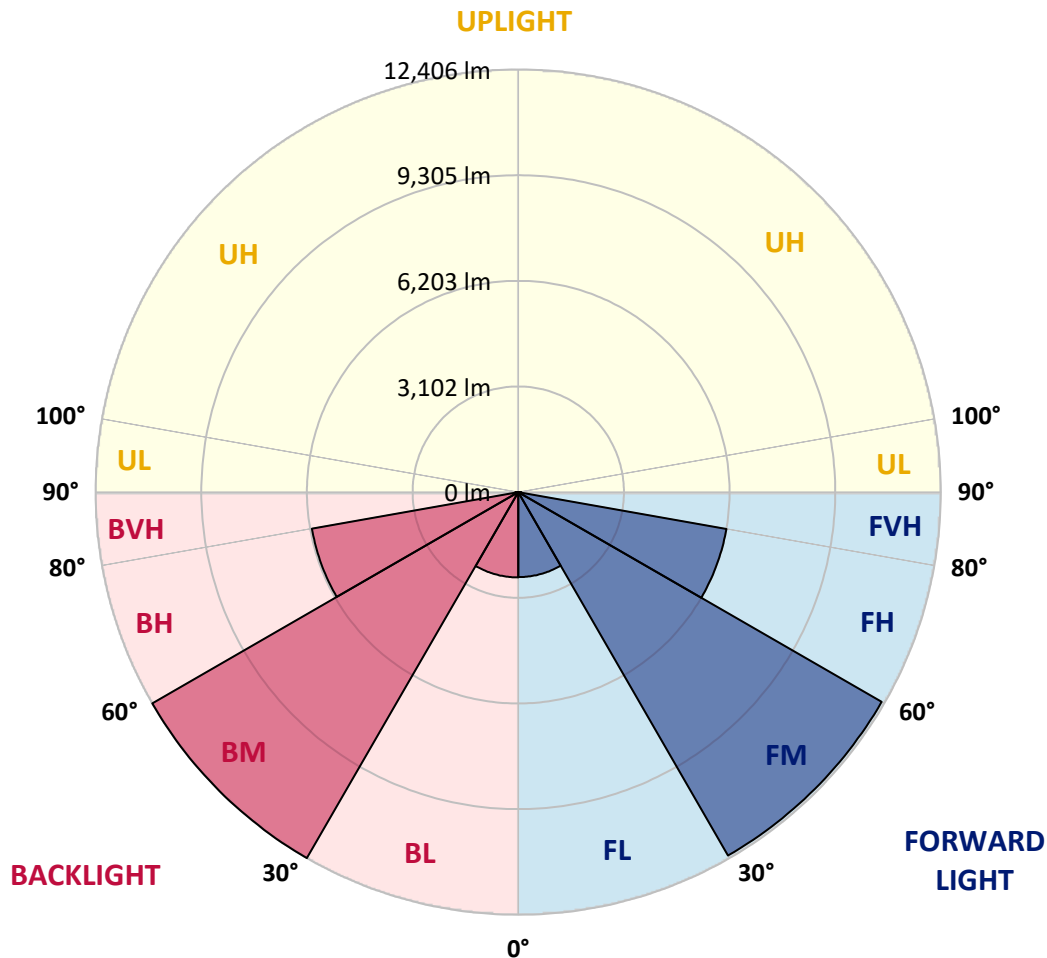
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2494.1	5.9			
FM (30°-60°)	12317.2	29.1			
FH (60°-80°)	6206.2	14.7			G3/7500
FVH (80°-90°)	91.9	0.2			G1/100
BL (0°-30°)	2503.7	5.9	B4/5000		
BM (30°-60°)	12406.1	29.4	B5		
BH (60°-80°)	6152.7	14.6	B5		G3/7500
BVH (80°-90°)	87.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7
2.5°	4889.5	4899.2	4986.4	4952.5	4981.6	4928.3	4967.0	5049.4	4952.5	5025.2	5049.4
5°	4942.8	4957.4	4957.4	4991.3	5010.7	5001.0	5025.2	4991.3	5083.3	5044.6	5102.7
7.5°	5136.6	5112.4	5073.7	5102.7	5107.6	5131.8	5156.0	5199.6	5185.1	5151.2	5209.3
10°	5170.6	5151.2	5209.3	5214.2	5190.0	5170.6	5194.8	5194.8	5238.4	5248.1	5248.1
12.5°	5228.7	5248.1	5243.3	5282.0	5286.9	5272.3	5311.1	5383.8	5364.4	5378.9	5345.0
15°	5451.6	5427.4	5422.6	5461.3	5524.3	5432.2	5500.1	5495.2	5475.9	5504.9	5427.4
17.5°	5645.5	5567.9	5601.9	5664.9	5640.6	5660.0	5747.2	5669.7	5689.1	5655.2	5630.9
20°	5815.1	5752.1	5756.9	5781.2	5781.2	5839.3	5873.2	5844.1	5824.8	5819.9	5829.6
22.5°	6004.1	5931.4	5936.2	6038.0	6071.9	6052.5	6028.3	6076.8	6086.4	6047.7	6091.3
25°	6144.6	6222.1	6246.4	6294.8	6222.1	6275.4	6256.1	6348.1	6406.3	6328.7	6382.0
27.5°	6512.9	6479.0	6542.0	6537.1	6595.3	6542.0	6575.9	6605.0	6629.2	6634.0	6609.8
30°	6842.4	6856.9	6793.9	6963.6	6827.9	6915.1	6973.2	6987.8	7016.9	7016.9	6944.2
32.5°	7191.3	7162.2	7264.0	7225.2	7201.0	7268.8	7205.8	7404.5	7288.2	7356.1	7273.7
35°	7583.8	7583.8	7622.6	7729.2	7583.8	7540.2	7656.5	7738.9	7738.9	7617.7	7646.8
37.5°	8024.8	7986.0	8034.5	8170.2	8058.7	7913.3	8126.6	8160.5	8136.3	8102.3	8044.2
40°	8334.9	8325.2	8422.2	8601.5	8441.5	8412.5	8451.2	8543.3	8572.4	8606.3	8528.8
42.5°	8858.3	8901.9	9183.0	9139.4	9008.5	8906.8	8897.1	9241.1	9158.7	9071.5	9027.9
45°	9633.6	9594.9	9740.2	9745.1	9575.5	9352.6	9401.0	9716.0	9856.6	9662.7	9735.4
47.5°	10249.1	10268.5	10370.2	10578.6	10186.1	9953.5	10132.8	10641.6	10598.0	10525.3	10593.1
50°	11072.9	11160.1	11479.9	11407.2	11058.3	10772.4	11164.9	11644.7	11698.0	11431.5	11383.0
52.5°	12211.7	12347.3	12521.8	12579.9	12245.6	12143.8	12168.0	12764.1	12633.2	12376.4	12211.7
55°	13209.9	13272.9	13592.7	14072.5	14048.3	13558.8	13839.9	14062.8	13529.7	13001.5	13045.2
57.5°	13636.3	13665.4	14557.1	15516.6	16088.4	16199.8	15880.0	15128.9	13859.3	12841.6	12778.6
60°	12575.1	12851.3	13927.1	16093.2	18705.2	19994.2	17866.8	15250.0	13088.8	11853.1	11761.0
62.5°	10050.4	10064.9	11664.1	14949.6	20333.4	23711.0	18627.6	14111.2	11034.1	9633.6	9265.4
64°	7157.4	7293.1	9129.7	13234.1	19994.2	25222.9	18535.5	12623.6	9095.7	7108.9	6852.1
65°	5136.6	5325.6	7099.2	11489.6	19199.4	25043.6	18259.3	11344.2	7356.1	5427.4	5165.7
67.5°	1889.9	1967.4	2786.4	5747.2	13786.6	21341.3	14469.8	6236.7	3232.2	2301.8	2069.2
70°	877.1	882.0	1032.2	1899.6	6028.3	14271.2	6905.4	2340.6	1216.3	964.3	896.5
72.5°	644.5	659.0	722.0	877.1	1773.6	6042.8	2267.9	959.5	712.3	630.0	615.4
75°	523.4	533.0	552.4	634.8	819.0	1618.5	920.7	663.9	567.0	508.8	489.4
77.5°	402.2	402.2	445.8	484.6	542.7	756.0	610.6	528.2	460.4	402.2	387.7
80°	290.8	295.6	348.9	378.0	368.3	499.1	441.0	436.1	378.0	315.0	290.8
82.5°	169.6	184.1	252.0	271.4	261.7	295.6	319.8	339.2	295.6	218.1	198.7
85°	96.9	101.8	145.4	150.2	150.2	140.5	184.1	203.5	198.7	135.7	121.1
87.5°	29.1	29.1	38.8	38.8	43.6	48.5	72.7	87.2	96.9	67.8	63.0
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7	4947.7
2.5°	5025.2	4952.5	4957.4	4976.7	4913.7	4938.0	5010.7	4957.4	4942.8	4913.7	4899.2
5°	5001.0	5078.5	5049.4	5059.1	5044.6	4976.7	4967.0	5010.7	5034.9	4991.3	5078.5
7.5°	5170.6	5136.6	5097.9	5112.4	5078.5	5136.6	5175.4	5088.2	5131.8	5107.6	5059.1
10°	5267.5	5204.5	5233.6	5223.9	5199.6	5257.8	5219.0	5209.3	5170.6	5117.3	5194.8
12.5°	5301.4	5374.1	5422.6	5340.2	5354.7	5325.6	5301.4	5301.4	5257.8	5243.3	5257.8
15°	5451.6	5514.6	5495.2	5558.2	5475.9	5504.9	5534.0	5461.3	5500.1	5393.5	5475.9
17.5°	5727.8	5674.5	5742.4	5660.0	5689.1	5747.2	5655.2	5655.2	5684.2	5626.1	5553.4
20°	5902.3	5878.1	5853.8	5858.7	5810.2	5863.5	5834.5	5819.9	5776.3	5795.7	5834.5
22.5°	6067.1	6033.1	6042.8	6057.4	6091.3	6067.1	6052.5	6067.1	5960.5	6057.4	5921.7
25°	6270.6	6362.7	6333.6	6396.6	6299.7	6362.7	6357.8	6265.7	6323.9	6285.1	6256.1
27.5°	6609.8	6561.3	6605.0	6527.4	6595.3	6600.1	6542.0	6697.0	6629.2	6619.5	6600.1
30°	7045.9	7012.0	6982.9	6939.3	6992.6	6949.0	6997.5	7012.0	6949.0	6900.6	6808.5
32.5°	7293.1	7385.1	7419.1	7312.5	7317.3	7341.5	7297.9	7254.3	7293.1	7307.6	7293.1
35°	7642.0	7729.2	7748.6	7666.2	7622.6	7743.7	7656.5	7801.9	7675.9	7680.7	7549.9
37.5°	8049.0	8073.3	8238.0	8146.0	8107.2	8049.0	8208.9	8189.6	8218.6	7986.0	8102.3
40°	8509.4	8596.6	8688.7	8456.1	8451.2	8504.5	8494.9	8606.3	8553.0	8519.1	8436.7
42.5°	9013.4	9197.5	9212.0	9057.0	8960.1	8950.4	8998.8	9246.0	9250.8	9027.9	8931.0
45°	9682.1	9885.6	9832.3	9531.9	9425.3	9410.7	9648.2	9754.8	9846.9	9759.6	9677.3
47.5°	10515.6	10651.3	10612.5	10336.3	9992.2	10089.2	10321.8	10656.1	10559.2	10442.9	10346.0
50°	11407.2	11567.2	11484.8	11208.6	10879.0	10879.0	11164.9	11591.4	11562.3	11334.5	11247.3
52.5°	12395.8	12628.4	12817.4	12424.9	12148.7	12192.3	12642.9	12798.0	12725.3	12565.4	12492.7
55°	13132.4	13578.2	13965.9	13985.3	13999.8	13994.9	14111.2	14266.3	13747.8	13491.0	13229.3
57.5°	12953.1	13796.3	15124.0	16025.4	16291.9	16432.4	16393.7	15676.5	14450.5	13607.3	13694.5
60°	11673.8	13050.0	15191.9	18084.9	20023.2	19829.4	19121.9	16287.1	14062.8	12638.1	12458.8
62.5°	9313.8	10971.1	14053.1	18666.4	24006.6	23948.4	20246.2	14876.9	11717.4	9914.7	9803.2
64°	7016.9	8761.4	12536.3	18516.2	25402.2	25460.3	19960.2	13142.1	9168.4	7016.9	6847.3
65°	5369.3	6987.8	11048.6	18206.0	25101.7	25135.7	19165.5	11349.1	6968.4	4981.6	4797.4
67.5°	2137.0	2975.4	5994.4	13806.0	21554.5	21462.5	13675.1	5490.4	2665.2	1734.8	1700.9
70°	911.0	1133.9	2103.1	6542.0	14431.1	14164.6	5887.8	1783.3	988.6	828.6	823.8
72.5°	625.1	693.0	901.3	2020.7	5999.2	5858.7	1676.7	828.6	673.6	620.3	620.3
75°	504.0	552.4	654.2	848.0	1589.5	1531.3	789.9	610.6	537.9	499.1	494.3
77.5°	392.5	441.0	513.7	586.4	726.9	722.0	528.2	460.4	416.7	387.7	378.0
80°	310.1	358.6	407.1	416.7	474.9	465.2	358.6	363.4	339.2	281.1	276.2
82.5°	213.2	290.8	324.7	295.6	281.1	281.1	256.8	256.8	237.4	174.5	159.9
85°	130.8	193.8	203.5	174.5	130.8	130.8	140.5	135.7	126.0	92.1	87.2
87.5°	67.8	92.1	82.4	67.8	43.6	43.6	38.8	29.1	29.1	24.2	24.2
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)