

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: P479085

Luminaire Tested: **IFLD-L-SA8C-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479085
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

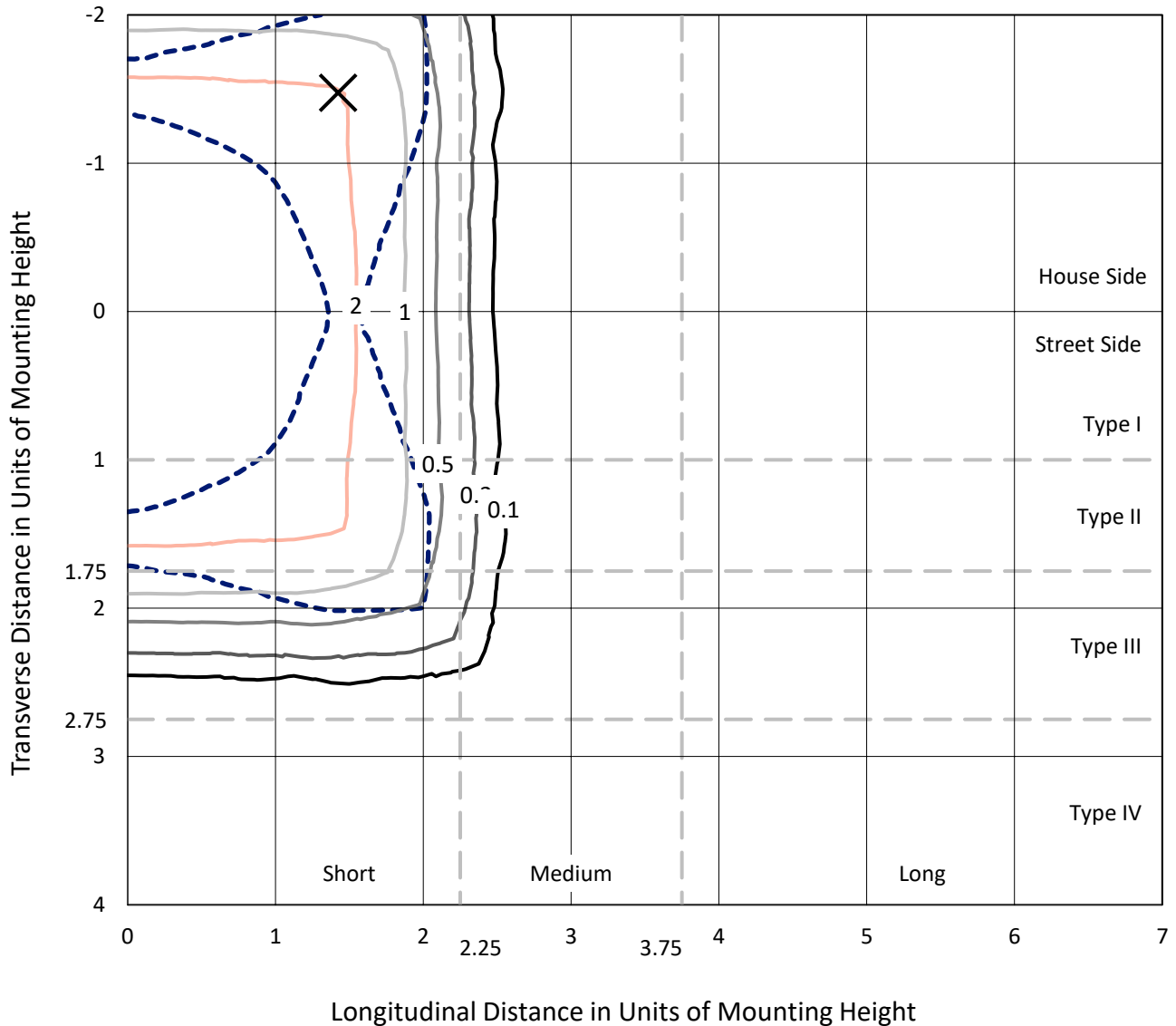
Lumens per Lamp: N/A
Luminaire Lumens: 37145.3 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

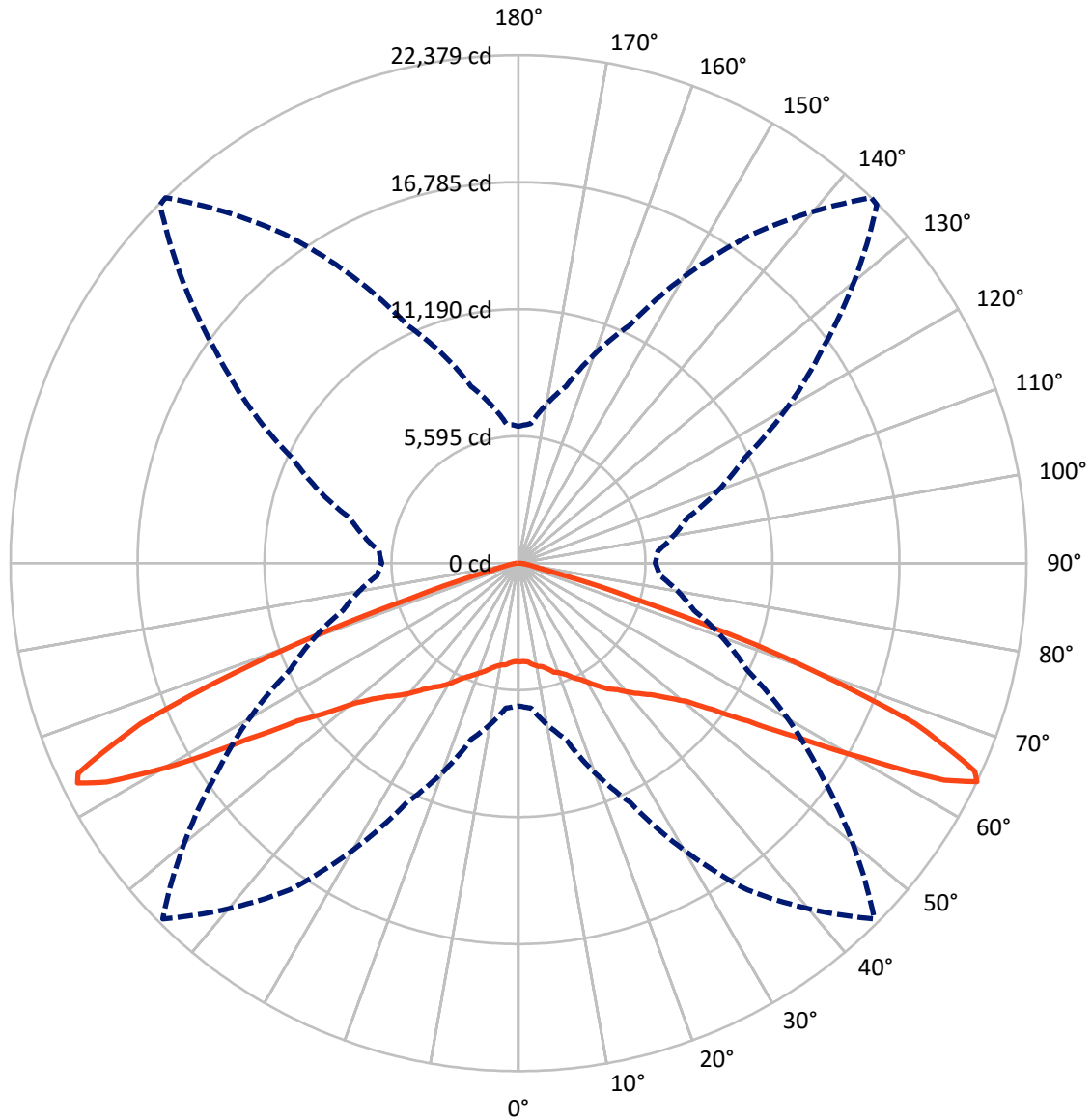
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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
House Side	Lumens	18590.3	0.0	18590.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18554.9	0.0	18554.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	37145.3	0.0	37145.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.3	1.2
10°-20°	1377.2	3.7
20°-30°	2588.4	7.0
30°-40°	4268.7	11.5
40°-50°	6676.0	18.0
50°-60°	10786.8	29.0
60°-70°	9712.8	26.1
70°-80°	1150.5	3.1
80°-90°	157.5	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°	37145.3	100.0
0°-180°	37145.3	100.0

Coefficient of Utilization



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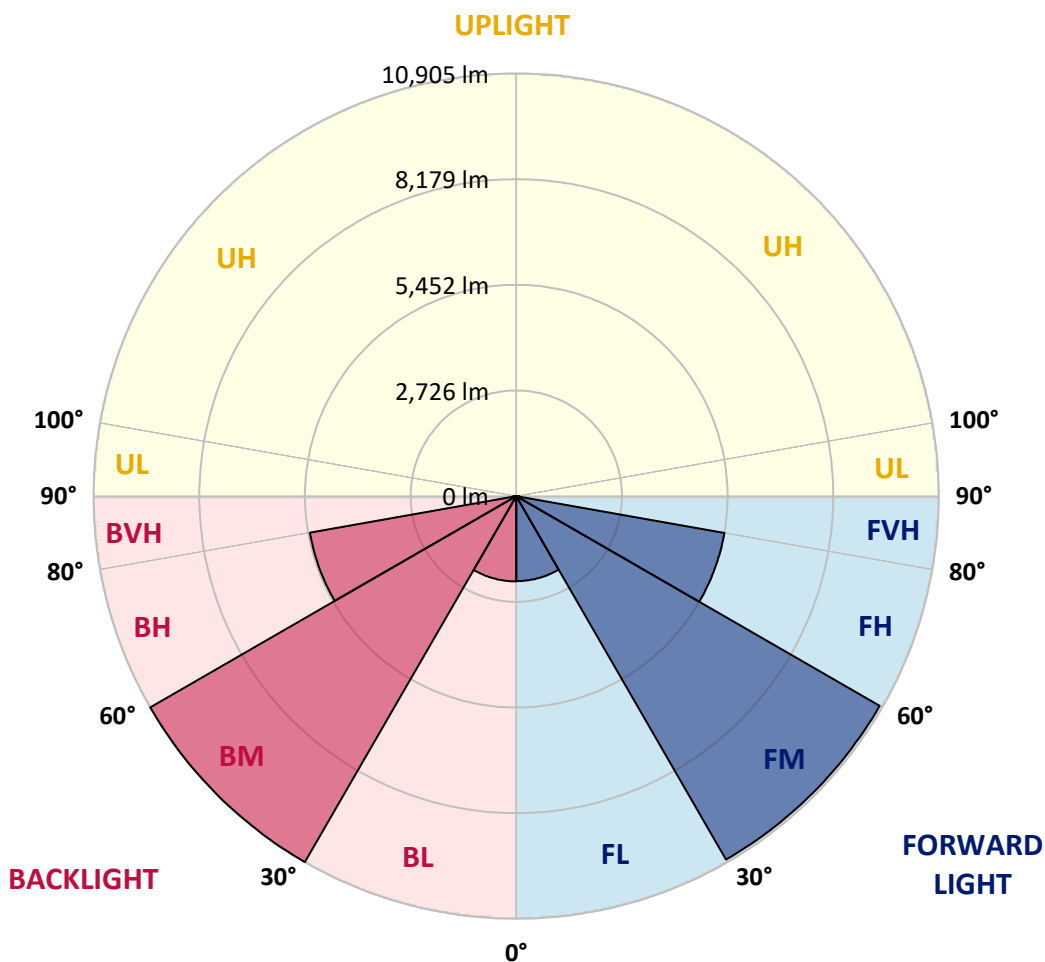
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2192.3	5.9			
FM (30°-60°)	10826.7	29.1			
FH (60°-80°)	5455.2	14.7			G3/7500
FVH (80°-90°)	80.8	0.2			G1/100
BL (0°-30°)	2200.7	5.9	B3/2500		
BM (30°-60°)	10904.8	29.4	B5		
BH (60°-80°)	5408.1	14.6	B5		G3/7500
BVH (80°-90°)	76.7	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°	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9
2.5°	4297.8	4306.4	4383.0	4353.2	4378.8	4331.9	4366.0	4438.4	4353.2	4417.1	4438.4
5°	4344.7	4357.5	4357.5	4387.3	4404.3	4395.8	4417.1	4387.3	4468.2	4434.1	4485.3
7.5°	4515.1	4493.8	4459.7	4485.3	4489.5	4510.8	4532.1	4570.4	4557.7	4527.8	4579.0
10°	4544.9	4527.8	4579.0	4583.2	4561.9	4544.9	4566.2	4566.2	4604.5	4613.0	4613.0
12.5°	4596.0	4613.0	4608.8	4642.9	4647.1	4634.3	4668.4	4732.3	4715.3	4728.0	4698.2
15°	4791.9	4770.6	4766.4	4800.5	4855.8	4774.9	4834.5	4830.3	4813.2	4838.8	4770.6
17.5°	4962.3	4894.2	4924.0	4979.4	4958.1	4975.1	5051.8	4983.6	5000.6	4970.8	4949.5
20°	5111.4	5056.0	5060.3	5081.6	5081.6	5132.7	5162.5	5137.0	5119.9	5115.7	5124.2
22.5°	5277.5	5213.6	5217.9	5307.3	5337.2	5320.1	5298.8	5341.4	5349.9	5315.9	5354.2
25°	5401.0	5469.2	5490.5	5533.1	5469.2	5516.0	5499.0	5579.9	5631.1	5562.9	5609.8
27.5°	5724.8	5694.9	5750.3	5746.1	5797.2	5750.3	5780.1	5805.7	5827.0	5831.3	5810.0
30°	6014.4	6027.2	5971.8	6120.9	6001.6	6078.3	6129.4	6142.2	6167.8	6167.8	6103.9
32.5°	6321.1	6295.5	6385.0	6350.9	6329.6	6389.2	6333.9	6508.5	6406.3	6465.9	6393.5
35°	6666.1	6666.1	6700.2	6793.9	6666.1	6627.8	6730.0	6802.4	6802.4	6695.9	6721.5
37.5°	7053.7	7019.7	7062.2	7181.5	7083.5	6955.8	7143.2	7173.0	7151.7	7121.9	7070.8
40°	7326.3	7317.8	7403.0	7560.6	7420.0	7394.5	7428.6	7509.5	7535.1	7564.9	7496.7
42.5°	7786.4	7824.7	8071.7	8033.4	7918.4	7829.0	7820.4	8122.9	8050.5	7973.8	7935.4
45°	8467.9	8433.8	8561.6	8565.8	8416.8	8220.8	8263.4	8540.3	8663.8	8493.4	8557.3
47.5°	9008.8	9025.9	9115.3	9298.5	8953.5	8749.0	8906.6	9353.9	9315.5	9251.6	9311.3
50°	9733.0	9809.6	10090.7	10026.9	9720.2	9468.9	9813.9	10235.6	10282.4	10048.2	10005.6
52.5°	10733.9	10853.2	11006.5	11057.7	10763.7	10674.3	10695.6	11219.5	11104.5	10878.8	10733.9
55°	11611.4	11666.8	11947.9	12369.6	12348.3	11918.1	12165.1	12361.1	11892.5	11428.2	11466.6
57.5°	11986.2	12011.8	12795.5	13638.9	14141.5	14239.5	13958.4	13298.2	12182.2	11287.7	11232.3
60°	11053.4	11296.2	12241.8	14145.8	16441.7	17574.7	15704.8	13404.6	11504.9	10418.7	10337.8
62.5°	8834.2	8847.0	10252.6	13140.5	17872.9	20841.7	16373.5	12403.7	9698.9	8467.9	8144.2
64°	6291.3	6410.5	8024.9	11632.7	17574.7	22170.7	16292.6	11096.0	7995.1	6248.7	6022.9
65°	4515.1	4681.2	6240.2	10099.3	16876.1	22013.1	16049.8	9971.5	6465.9	4770.6	4540.6
67.5°	1661.2	1729.4	2449.2	5051.8	12118.3	18758.8	12718.9	5482.0	2841.1	2023.3	1818.8
70°	771.0	775.2	907.3	1669.7	5298.8	12544.2	6069.8	2057.3	1069.1	847.6	788.0
72.5°	566.5	579.3	634.7	771.0	1559.0	5311.6	1993.4	843.4	626.1	553.7	541.0
75°	460.0	468.5	485.6	558.0	719.9	1422.7	809.3	583.6	498.4	447.2	430.2
77.5°	353.5	353.5	391.9	425.9	477.1	664.5	536.7	464.3	404.7	353.5	340.8
80°	255.6	259.8	306.7	332.2	323.7	438.7	387.6	383.4	332.2	276.9	255.6
82.5°	149.1	161.9	221.5	238.5	230.0	259.8	281.1	298.2	259.8	191.7	174.6
85°	85.2	89.4	127.8	132.0	132.0	123.5	161.9	178.9	174.6	119.3	106.5
87.5°	25.6	25.6	34.1	34.1	38.3	42.6	63.9	76.7	85.2	59.6	55.4
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°	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9
2.5°	4417.1	4353.2	4357.5	4374.5	4319.1	4340.4	4404.3	4357.5	4344.7	4319.1	4306.4
5°	4395.8	4464.0	4438.4	4446.9	4434.1	4374.5	4366.0	4404.3	4425.6	4387.3	4464.0
7.5°	4544.9	4515.1	4481.0	4493.8	4464.0	4515.1	4549.1	4472.5	4510.8	4489.5	4446.9
10°	4630.1	4574.7	4600.3	4591.7	4570.4	4621.6	4587.5	4579.0	4544.9	4498.0	4566.2
12.5°	4659.9	4723.8	4766.4	4694.0	4706.7	4681.2	4659.9	4659.9	4621.6	4608.8	4621.6
15°	4791.9	4847.3	4830.3	4885.6	4813.2	4838.8	4864.3	4800.5	4834.5	4740.8	4813.2
17.5°	5034.7	4987.9	5047.5	4975.1	5000.6	5051.8	4970.8	4970.8	4996.4	4945.3	4881.4
20°	5188.1	5166.8	5145.5	5149.7	5107.1	5154.0	5128.4	5115.7	5077.3	5094.4	5128.4
22.5°	5332.9	5303.1	5311.6	5324.4	5354.2	5332.9	5320.1	5332.9	5239.2	5324.4	5205.1
25°	5511.8	5592.7	5567.2	5622.5	5537.3	5592.7	5588.5	5507.5	5558.6	5524.6	5499.0
27.5°	5810.0	5767.4	5805.7	5737.5	5797.2	5801.4	5750.3	5886.6	5827.0	5818.5	5801.4
30°	6193.3	6163.5	6137.9	6099.6	6146.5	6108.1	6150.7	6163.5	6108.1	6065.5	5984.6
32.5°	6410.5	6491.5	6521.3	6427.6	6431.8	6453.1	6414.8	6376.5	6410.5	6423.3	6410.5
35°	6717.2	6793.9	6810.9	6738.5	6700.2	6806.7	6730.0	6857.8	6747.0	6751.3	6636.3
37.5°	7075.0	7096.3	7241.1	7160.2	7126.1	7075.0	7215.6	7198.6	7224.1	7019.7	7121.9
40°	7479.7	7556.3	7637.3	7432.8	7428.6	7475.4	7466.9	7564.9	7518.0	7488.2	7415.8
42.5°	7922.7	8084.5	8097.3	7961.0	7875.8	7867.3	7909.9	8127.1	8131.4	7935.4	7850.3
45°	8510.5	8689.4	8642.5	8378.4	8284.7	8271.9	8480.7	8574.4	8655.3	8578.6	8506.2
47.5°	9243.1	9362.4	9328.3	9085.5	8783.1	8868.3	9072.7	9366.6	9281.4	9179.2	9094.0
50°	10026.9	10167.4	10095.0	9852.2	9562.6	9562.6	9813.9	10188.7	10163.2	9963.0	9886.3
52.5°	10895.8	11100.3	11266.4	10921.4	10678.6	10716.9	11113.0	11249.3	11185.4	11044.9	10981.0
55°	11543.2	11935.1	12275.9	12292.9	12305.7	12301.4	12403.7	12540.0	12084.2	11858.4	11628.4
57.5°	11385.6	12126.8	13293.9	14086.2	14320.4	14444.0	14409.9	13779.5	12701.8	11960.7	12037.3
60°	10261.1	11470.8	13353.5	15896.4	17600.2	17429.9	16808.0	14316.2	12361.1	11108.8	10951.2
62.5°	8186.8	9643.5	12352.5	16407.6	21101.5	21050.4	17796.2	13076.7	10299.5	8714.9	8617.0
64°	6167.8	7701.2	11019.3	16275.5	22328.3	22379.4	17544.9	11551.8	8059.0	6167.8	6018.7
65°	4719.5	6142.2	9711.7	16002.9	22064.2	22094.0	16846.3	9975.7	6125.2	4378.8	4216.9
67.5°	1878.4	2615.3	5269.0	12135.3	18946.2	18865.3	12020.3	4826.0	2342.7	1524.9	1495.1
70°	800.8	996.7	1848.6	5750.3	12684.8	12450.5	5175.3	1567.5	868.9	728.4	724.1
72.5°	549.5	609.1	792.3	1776.2	5273.3	5149.7	1473.8	728.4	592.1	545.2	545.2
75°	443.0	485.6	575.0	745.4	1397.1	1346.0	694.3	536.7	472.8	438.7	434.5
77.5°	345.0	387.6	451.5	515.4	638.9	634.7	464.3	404.7	366.3	340.8	332.2
80°	272.6	315.2	357.8	366.3	417.4	408.9	315.2	319.5	298.2	247.1	242.8
82.5°	187.4	255.6	285.4	259.8	247.1	247.1	225.8	225.8	208.7	153.3	140.6
85°	115.0	170.4	178.9	153.3	115.0	115.0	123.5	119.3	110.7	80.9	76.7
87.5°	59.6	80.9	72.4	59.6	38.3	38.3	34.1	25.6	25.6	21.3	21.3
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)