

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: P479086

Luminaire Tested: **IFLD-L-SA8D-827-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479086  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-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**

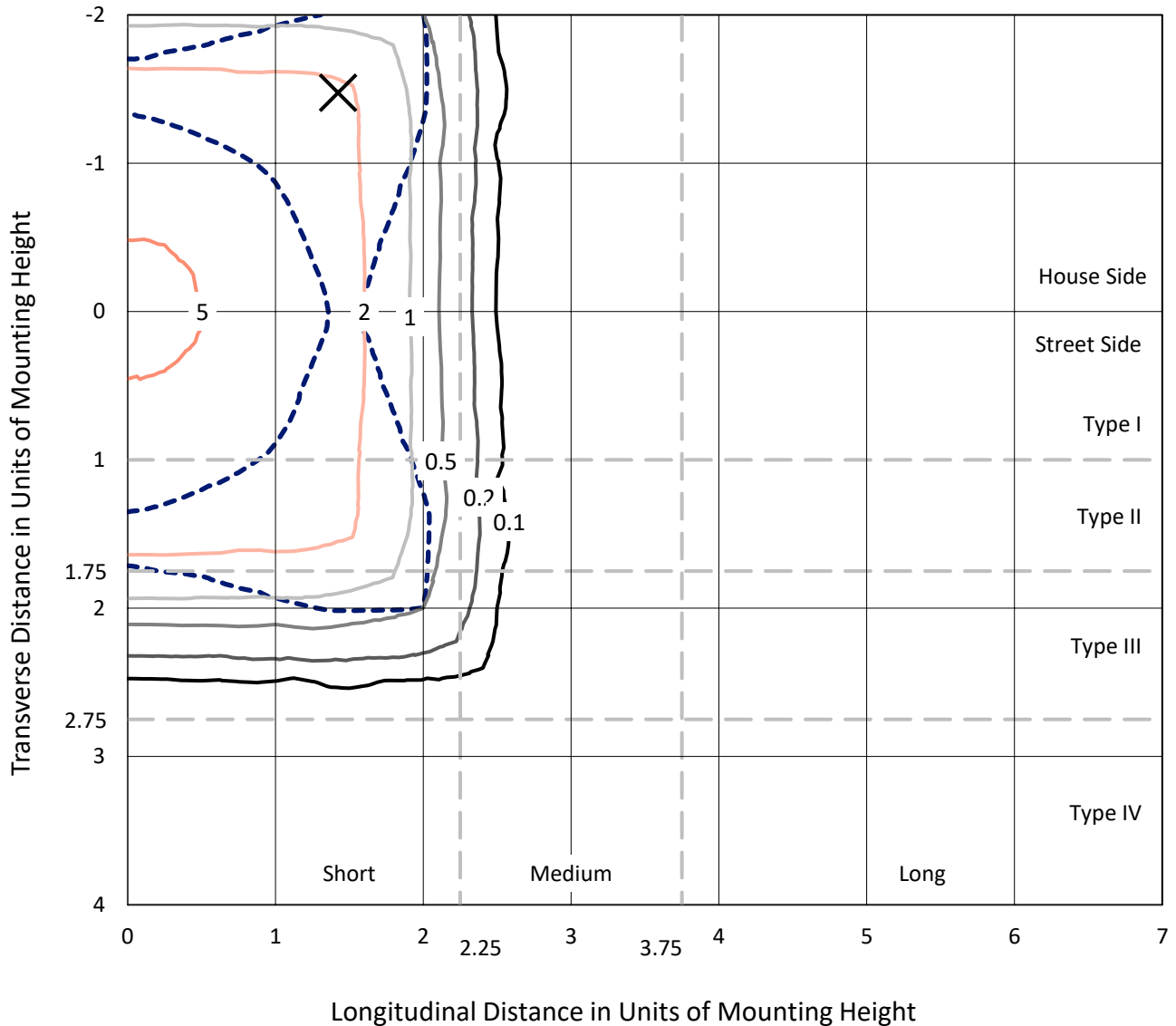
Lumens per Lamp: N/A  
Luminaire Lumens: 40872.4 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 488.3  
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

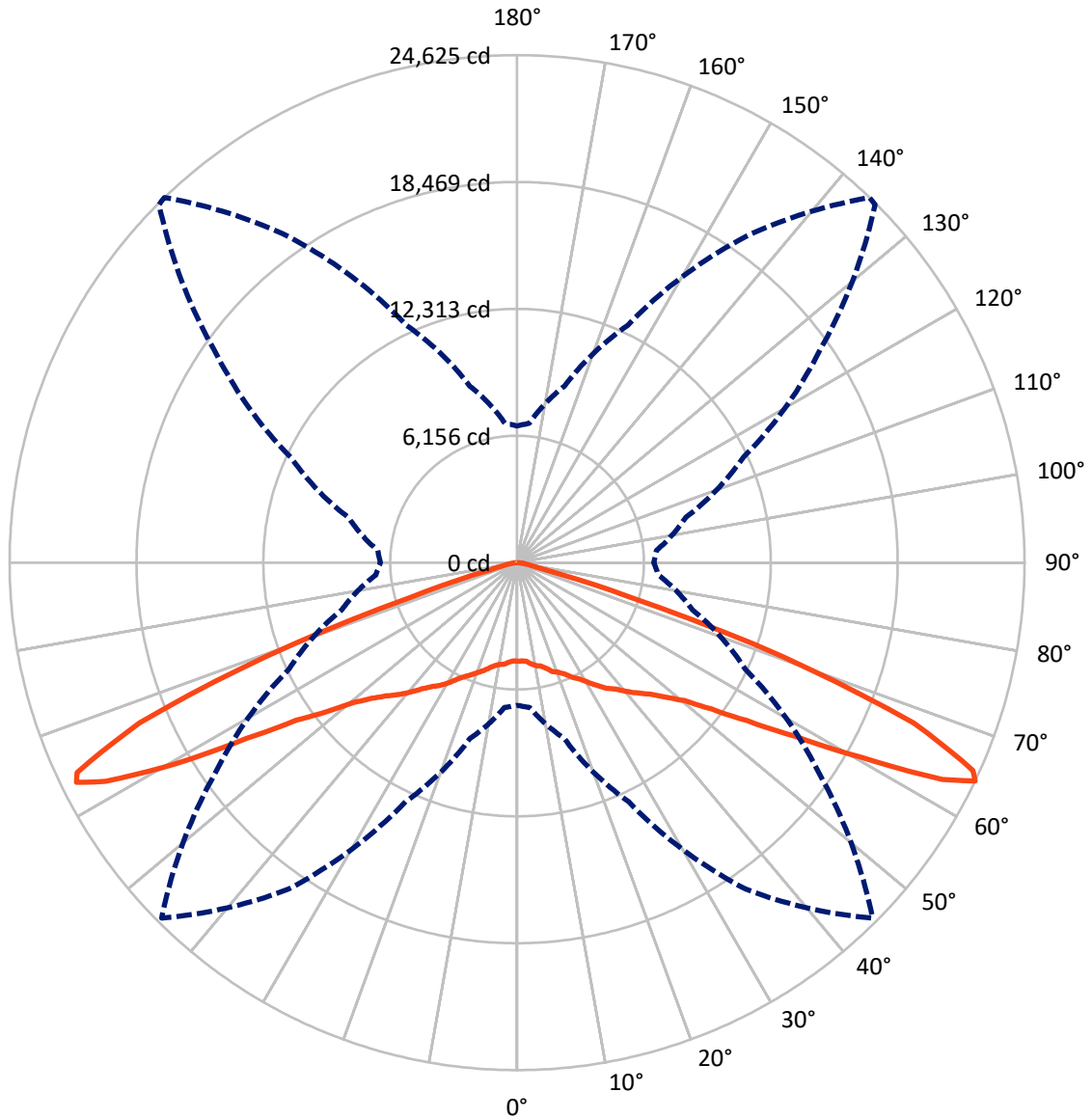
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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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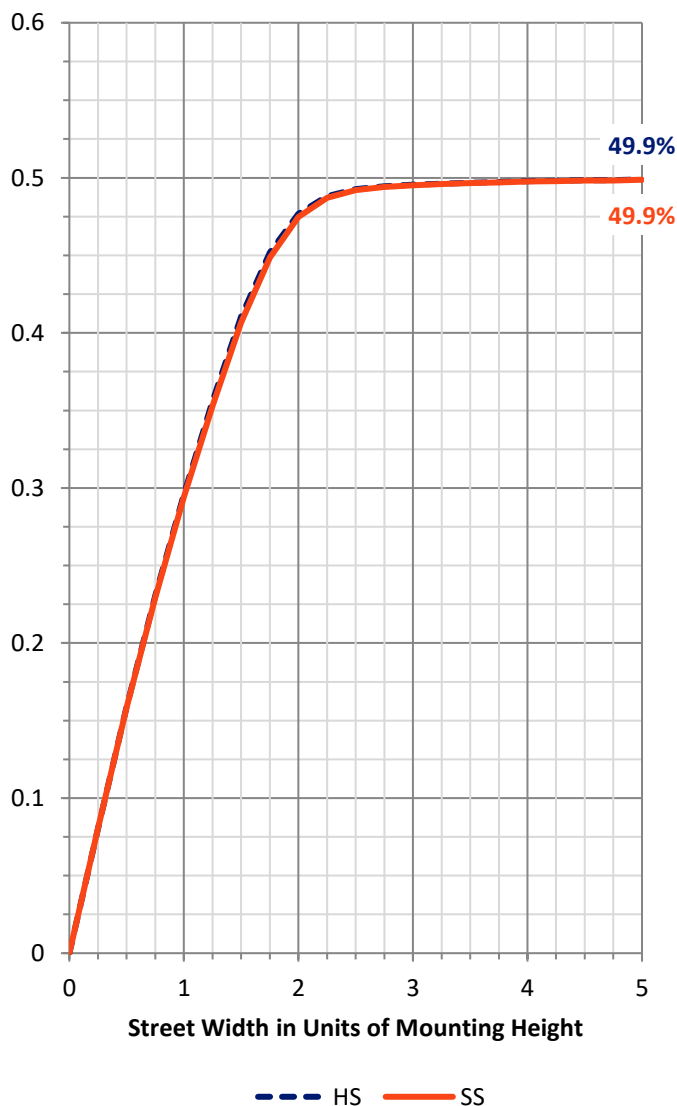
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20455.7	0.0	20455.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20416.7	0.0	20416.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40872.4	0.0	40872.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.2	1.2
10°-20°	1515.4	3.7
20°-30°	2848.1	7.0
30°-40°	4697.0	11.5
40°-50°	7345.9	18.0
50°-60°	11869.1	29.0
60°-70°	10687.4	26.1
70°-80°	1266.0	3.1
80°-90°	173.3	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°	40872.4	100.0
0°-180°	40872.4	100.0

**Coefficient of Utilization**



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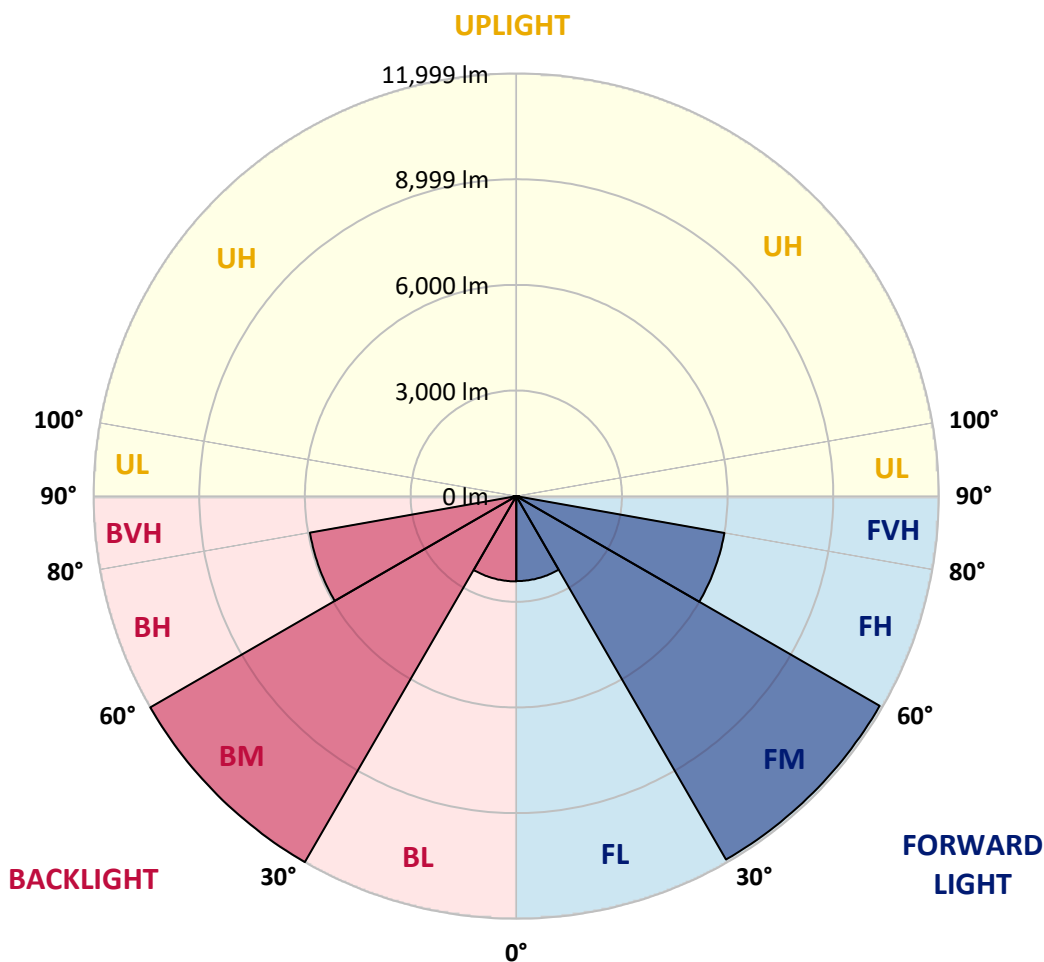
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2412.2	5.9			
FM (30°-60°)	11913.0	29.1			
FH (60°-80°)	6002.6	14.7			G3/7500
FVH (80°-90°)	88.9	0.2			G1/100
BL (0°-30°)	2421.5	5.9	B3/2500		
BM (30°-60°)	11999.0	29.4	B5		
BH (60°-80°)	5950.8	14.6	B5		G3/7500
BVH (80°-90°)	84.4	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°	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3
2.5°	4729.1	4738.5	4822.8	4790.0	4818.1	4766.6	4804.1	4883.7	4790.0	4860.3	4883.7
5°	4780.6	4794.7	4794.7	4827.5	4846.3	4836.9	4860.3	4827.5	4916.6	4879.1	4935.3
7.5°	4968.1	4944.7	4907.2	4935.3	4940.0	4963.4	4986.9	5029.0	5015.0	4982.2	5038.4
10°	5000.9	4982.2	5038.4	5043.1	5019.7	5000.9	5024.4	5024.4	5066.5	5075.9	5075.9
12.5°	5057.2	5075.9	5071.2	5108.7	5113.4	5099.3	5136.8	5207.1	5188.4	5202.5	5169.7
15°	5272.8	5249.3	5244.6	5282.1	5343.1	5254.0	5319.6	5314.9	5296.2	5324.3	5249.3
17.5°	5460.2	5385.2	5418.1	5479.0	5455.6	5474.3	5558.7	5483.7	5502.4	5469.6	5446.2
20°	5624.3	5563.3	5568.0	5591.5	5591.5	5647.7	5680.5	5652.4	5633.7	5629.0	5638.3
22.5°	5807.1	5736.8	5741.5	5839.9	5872.7	5853.9	5830.5	5877.4	5886.7	5849.3	5891.4
25°	5943.0	6018.0	6041.4	6088.3	6018.0	6069.5	6050.8	6139.8	6196.1	6121.1	6172.6
27.5°	6299.2	6266.4	6327.3	6322.6	6378.9	6327.3	6360.1	6388.2	6411.7	6416.4	6392.9
30°	6617.9	6632.0	6571.0	6735.1	6603.8	6688.2	6744.4	6758.5	6786.6	6786.6	6716.3
32.5°	6955.4	6927.2	7025.7	6988.2	6964.7	7030.3	6969.4	7161.6	7049.1	7114.7	7035.0
35°	7335.0	7335.0	7372.5	7475.6	7335.0	7292.8	7405.3	7485.0	7485.0	7367.8	7395.9
37.5°	7761.5	7724.0	7770.9	7902.1	7794.3	7653.7	7859.9	7892.7	7869.3	7836.5	7780.3
40°	8061.5	8052.1	8145.8	8319.2	8164.6	8136.5	8174.0	8263.0	8291.1	8323.9	8248.9
42.5°	8567.7	8609.8	8881.7	8839.5	8712.9	8614.5	8605.1	8937.9	8858.2	8773.9	8731.7
45°	9317.6	9280.1	9420.7	9425.4	9261.3	9045.7	9092.6	9397.2	9533.2	9345.7	9416.0
47.5°	9912.8	9931.5	10030.0	10231.5	9851.9	9626.9	9800.3	10292.4	10250.2	10179.9	10245.6
50°	10709.6	10793.9	11103.3	11033.0	10695.5	10419.0	10798.6	11262.6	11314.2	11056.4	11009.5
52.5°	11811.0	11942.2	12110.9	12167.2	11843.8	11745.4	11768.8	12345.3	12218.7	11970.3	11811.0
55°	12776.5	12837.4	13146.8	13610.8	13587.3	13113.9	13385.8	13601.4	13085.8	12575.0	12617.1
57.5°	13188.9	13217.1	14079.4	15007.5	15560.5	15668.3	15359.0	14632.5	13404.5	12420.3	12359.4
60°	12162.5	12429.7	13470.1	15565.2	18091.4	19338.1	17280.6	14749.7	12659.3	11464.2	11375.1
62.5°	9720.6	9734.7	11281.4	14459.1	19666.2	22933.0	18016.4	13648.3	10672.1	9317.6	8961.4
64°	6922.6	7053.8	8830.1	12799.9	19338.1	24395.3	17927.4	12209.4	8797.3	6875.7	6627.3
65°	4968.1	5150.9	6866.3	11112.6	18569.5	24221.9	17660.2	10972.0	7114.7	5249.3	4996.2
67.5°	1827.9	1902.9	2695.0	5558.7	13334.2	20641.1	13995.1	6032.0	3126.2	2226.3	2001.3
70°	848.3	853.0	998.3	1837.3	5830.5	13802.9	6678.8	2263.8	1176.4	932.7	867.1
72.5°	623.4	637.4	698.3	848.3	1715.4	5844.6	2193.5	928.0	689.0	609.3	595.2
75°	506.2	515.6	534.3	614.0	792.1	1565.4	890.5	642.1	548.4	492.1	473.4
77.5°	389.0	389.0	431.2	468.7	524.9	731.2	590.5	510.9	445.3	389.0	375.0
80°	281.2	285.9	337.5	365.6	356.2	482.8	426.5	421.8	365.6	304.6	281.2
82.5°	164.0	178.1	243.7	262.5	253.1	285.9	309.3	328.1	285.9	210.9	192.2
85°	93.7	98.4	140.6	145.3	145.3	135.9	178.1	196.8	192.2	131.2	117.2
87.5°	28.1	28.1	37.5	37.5	42.2	46.9	70.3	84.4	93.7	65.6	60.9
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°	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3	4785.3
2.5°	4860.3	4790.0	4794.7	4813.4	4752.5	4776.0	4846.3	4794.7	4780.6	4752.5	4738.5
5°	4836.9	4911.9	4883.7	4893.1	4879.1	4813.4	4804.1	4846.3	4869.7	4827.5	4911.9
7.5°	5000.9	4968.1	4930.6	4944.7	4911.9	4968.1	5005.6	4921.2	4963.4	4940.0	4893.1
10°	5094.7	5033.7	5061.9	5052.5	5029.0	5085.3	5047.8	5038.4	5000.9	4949.4	5024.4
12.5°	5127.5	5197.8	5244.6	5165.0	5179.0	5150.9	5127.5	5127.5	5085.3	5071.2	5085.3
15°	5272.8	5333.7	5314.9	5375.9	5296.2	5324.3	5352.4	5282.1	5319.6	5216.5	5296.2
17.5°	5539.9	5488.4	5554.0	5474.3	5502.4	5558.7	5469.6	5469.6	5497.7	5441.5	5371.2
20°	5708.6	5685.2	5661.8	5666.5	5619.6	5671.1	5643.0	5629.0	5586.8	5605.5	5643.0
22.5°	5868.0	5835.2	5844.6	5858.6	5891.4	5868.0	5853.9	5868.0	5764.9	5858.6	5727.4
25°	6064.8	6153.9	6125.8	6186.7	6093.0	6153.9	6149.2	6060.2	6116.4	6078.9	6050.8
27.5°	6392.9	6346.1	6388.2	6313.3	6378.9	6383.6	6327.3	6477.3	6411.7	6402.3	6383.6
30°	6814.8	6781.9	6753.8	6711.6	6763.2	6721.0	6767.9	6781.9	6721.0	6674.1	6585.1
32.5°	7053.8	7142.8	7175.6	7072.5	7077.2	7100.7	7058.5	7016.3	7053.8	7067.8	7053.8
35°	7391.2	7475.6	7494.4	7414.7	7372.5	7489.7	7405.3	7545.9	7424.0	7428.7	7302.2
37.5°	7784.9	7808.4	7967.7	7878.7	7841.2	7784.9	7939.6	7920.9	7949.0	7724.0	7836.5
40°	8230.2	8314.6	8403.6	8178.6	8174.0	8225.5	8216.1	8323.9	8272.4	8239.6	8159.9
42.5°	8717.6	8895.7	8909.8	8759.8	8666.1	8656.7	8703.6	8942.6	8947.3	8731.7	8638.0
45°	9364.4	9561.3	9509.7	9219.1	9116.0	9102.0	9331.6	9434.7	9523.8	9439.4	9359.7
47.5°	10170.6	10301.8	10264.3	9997.2	9664.4	9758.1	9983.1	10306.5	10212.8	10100.3	10006.5
50°	11033.0	11187.6	11108.0	10840.8	10522.1	10522.1	10798.6	11211.1	11182.9	10962.7	10878.3
52.5°	11989.1	12214.1	12396.8	12017.2	11750.1	11792.2	12228.1	12378.1	12307.8	12153.1	12082.8
55°	12701.5	13132.7	13507.6	13526.4	13540.5	13535.8	13648.3	13798.2	13296.7	13048.3	12795.2
57.5°	12528.1	13343.6	14627.8	15499.6	15757.4	15893.3	15855.8	15162.1	13976.3	13160.8	13245.2
60°	11290.7	12621.8	14693.4	17491.5	19366.3	19178.8	18494.5	15752.7	13601.4	12223.4	12050.0
62.5°	9008.2	10611.1	13592.0	18053.9	23218.9	23162.7	19581.9	14388.8	11332.9	9589.4	9481.6
64°	6786.6	8473.9	12125.0	17908.6	24568.7	24625.0	19305.3	12710.9	8867.6	6786.6	6622.6
65°	5193.1	6758.5	10686.1	17608.7	24278.1	24310.9	18536.7	10976.7	6739.8	4818.1	4640.0
67.5°	2066.9	2877.8	5797.7	13353.0	20847.3	20758.3	13226.4	5310.3	2577.8	1677.9	1645.1
70°	881.1	1096.7	2034.1	6327.3	13957.6	13699.8	5694.6	1724.8	956.1	801.5	796.8
72.5°	604.6	670.2	871.8	1954.4	5802.4	5666.5	1621.7	801.5	651.5	599.9	599.9
75°	487.4	534.3	632.7	820.2	1537.3	1481.1	764.0	590.5	520.2	482.8	478.1
77.5°	379.6	426.5	496.8	567.1	703.0	698.3	510.9	445.3	403.1	375.0	365.6
80°	300.0	346.8	393.7	403.1	459.3	449.9	346.8	351.5	328.1	271.8	267.2
82.5°	206.2	281.2	314.0	285.9	271.8	271.8	248.4	248.4	229.7	168.7	154.7
85°	126.5	187.5	196.8	168.7	126.5	126.5	135.9	131.2	121.9	89.1	84.4
87.5°	65.6	89.1	79.7	65.6	42.2	42.2	37.5	28.1	28.1	23.4	23.4
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)