

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: P478914

Luminaire Tested: **IFLD-S-SA6C-735-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478914  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

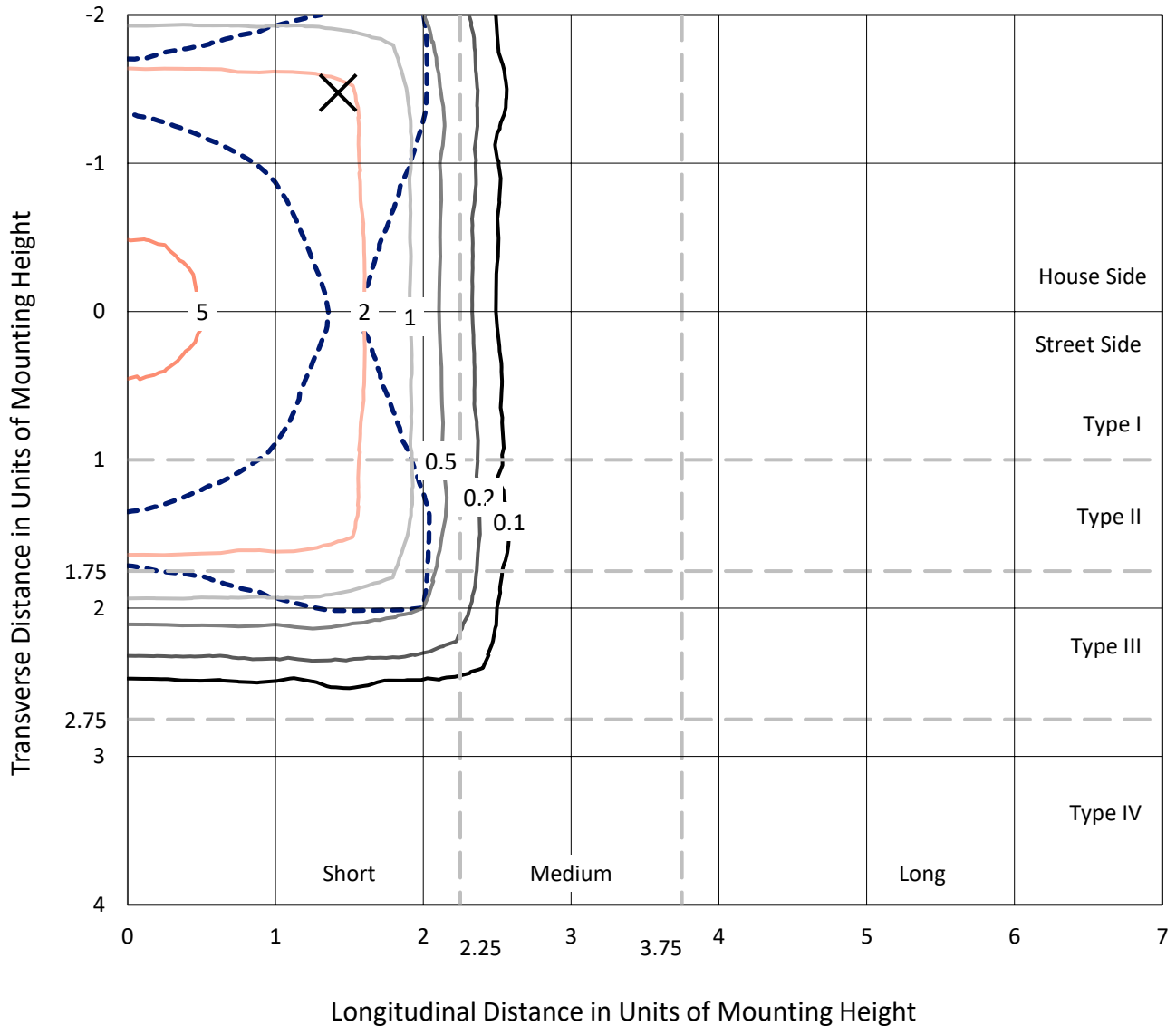
Lumens per Lamp: N/A  
Luminaire Lumens: 40874.9 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 321.5  
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

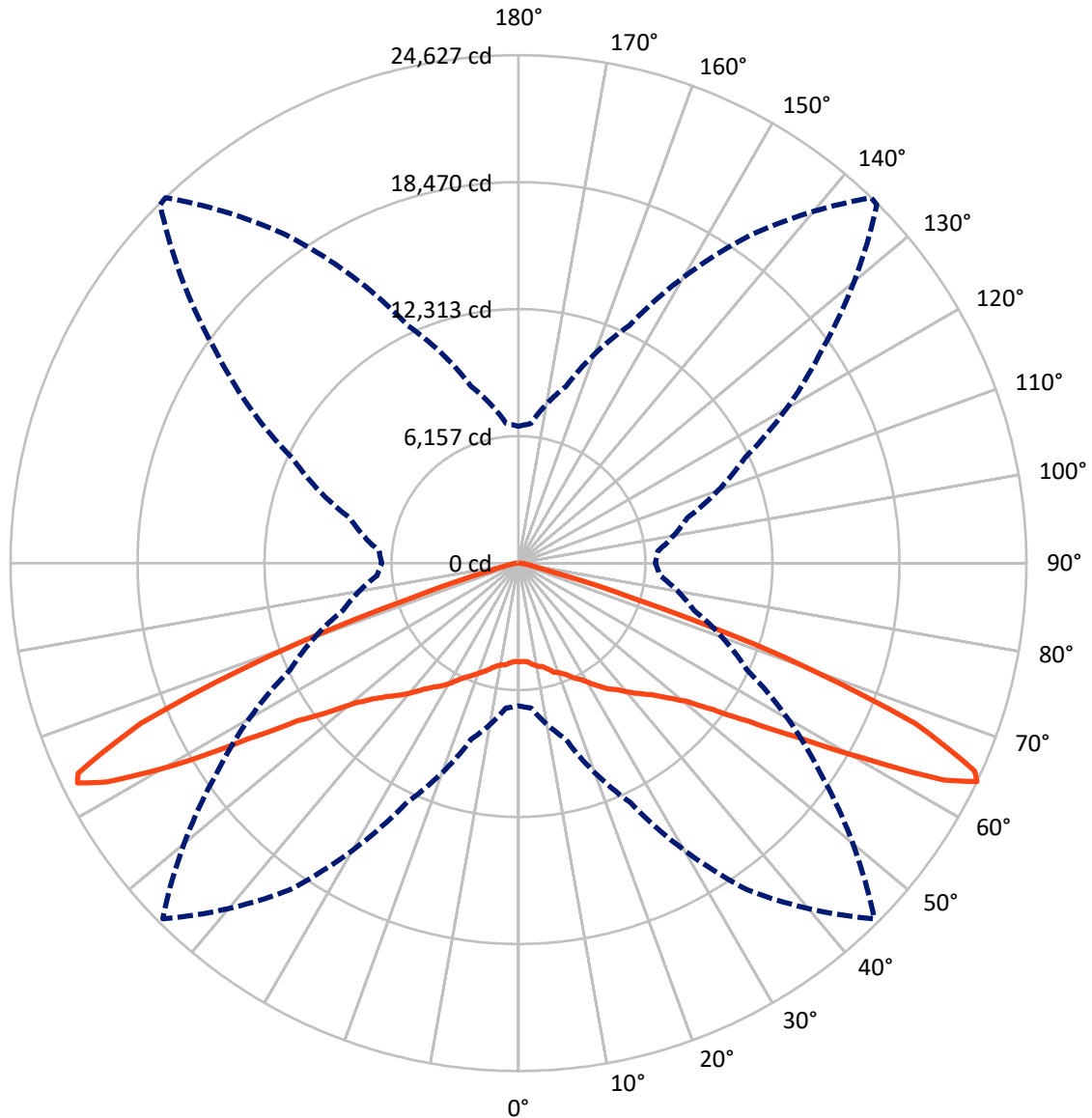
✕ Max cd  
 - - - 1/2 Max cd



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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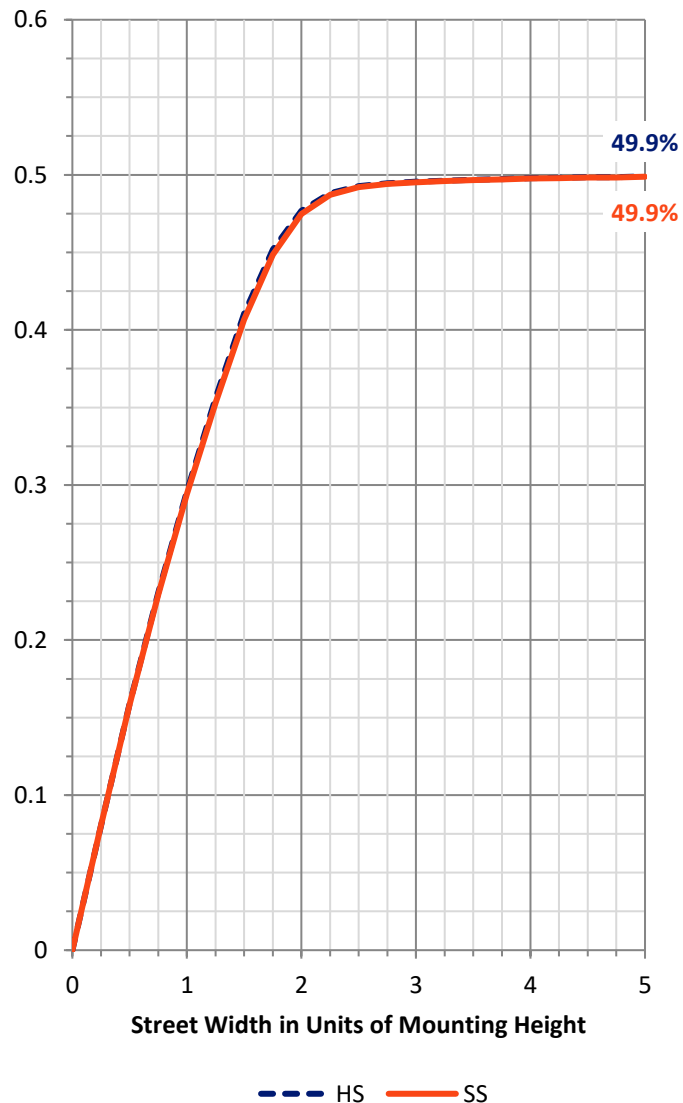
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20456.9	0.0	20456.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20418.0	0.0	20418.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40874.9	0.0	40874.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.2	1.2
10°-20°	1515.5	3.7
20°-30°	2848.3	7.0
30°-40°	4697.3	11.5
40°-50°	7346.3	18.0
50°-60°	11869.9	29.0
60°-70°	10688.0	26.1
70°-80°	1266.1	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°	40874.9	100.0
0°-180°	40874.9	100.0

**Coefficient of Utilization**



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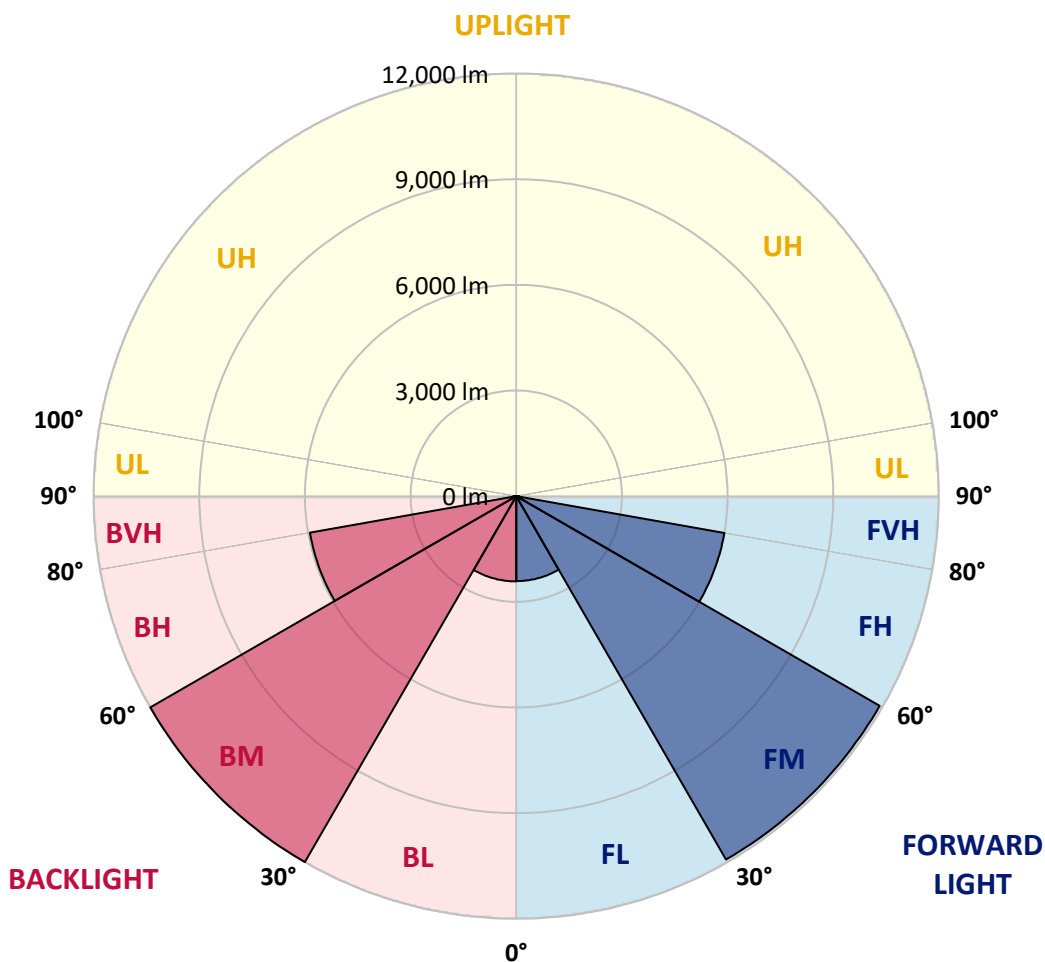
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2412.4	5.9			
FM (30°-60°)	11913.8	29.1			
FH (60°-80°)	6002.9	14.7			G3/7500
FVH (80°-90°)	88.9	0.2			G1/100
BL (0°-30°)	2421.7	5.9	B3/2500		
BM (30°-60°)	11999.7	29.4	B5		
BH (60°-80°)	5951.1	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°	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6
2.5°	4729.4	4738.7	4823.1	4790.3	4818.4	4766.9	4804.4	4884.0	4790.3	4860.6	4884.0
5°	4780.9	4795.0	4795.0	4827.8	4846.5	4837.2	4860.6	4827.8	4916.9	4879.4	4935.6
7.5°	4968.4	4945.0	4907.5	4935.6	4940.3	4963.7	4987.2	5029.3	5015.3	4982.5	5038.7
10°	5001.2	4982.5	5038.7	5043.4	5020.0	5001.2	5024.7	5024.7	5066.8	5076.2	5076.2
12.5°	5057.5	5076.2	5071.5	5109.0	5113.7	5099.7	5137.2	5207.5	5188.7	5202.8	5170.0
15°	5273.1	5249.6	5245.0	5282.5	5343.4	5254.3	5320.0	5315.3	5296.5	5324.6	5249.6
17.5°	5460.6	5385.6	5418.4	5479.3	5455.9	5474.6	5559.0	5484.0	5502.8	5469.9	5446.5
20°	5624.6	5563.7	5568.4	5591.8	5591.8	5648.1	5680.9	5652.7	5634.0	5629.3	5638.7
22.5°	5807.4	5737.1	5741.8	5840.2	5873.0	5854.3	5830.9	5877.7	5887.1	5849.6	5891.8
25°	5943.3	6018.3	6041.8	6088.6	6018.3	6069.9	6051.2	6140.2	6196.5	6121.5	6173.0
27.5°	6299.6	6266.8	6327.7	6323.0	6379.3	6327.7	6360.5	6388.6	6412.1	6416.8	6393.3
30°	6618.3	6632.4	6571.4	6735.5	6604.2	6688.6	6744.9	6758.9	6787.0	6787.0	6716.7
32.5°	6955.8	6927.7	7026.1	6988.6	6965.2	7030.8	6969.8	7162.0	7049.5	7115.1	7035.5
35°	7335.4	7335.4	7372.9	7476.1	7335.4	7293.3	7405.7	7485.4	7485.4	7368.2	7396.4
37.5°	7762.0	7724.5	7771.3	7902.6	7794.8	7654.2	7860.4	7893.2	7869.8	7837.0	7780.7
40°	8062.0	8052.6	8146.3	8319.7	8165.1	8136.9	8174.4	8263.5	8291.6	8324.4	8249.4
42.5°	8568.2	8610.4	8882.2	8840.0	8713.5	8615.0	8605.7	8938.5	8858.8	8774.4	8732.2
45°	9318.1	9280.6	9421.2	9425.9	9261.9	9046.3	9093.1	9397.8	9533.7	9346.2	9416.5
47.5°	9913.4	9932.1	10030.6	10232.1	9852.5	9627.5	9800.9	10293.1	10250.9	10180.6	10246.2
50°	10710.2	10794.6	11103.9	11033.6	10696.1	10419.6	10799.3	11263.3	11314.9	11057.1	11010.2
52.5°	11811.7	11942.9	12111.7	12167.9	11844.5	11746.1	11769.5	12346.0	12219.5	11971.1	11811.7
55°	12777.3	12838.2	13147.5	13611.6	13588.1	13114.7	13386.6	13602.2	13086.6	12575.7	12617.9
57.5°	13189.7	13217.9	14080.3	15008.4	15561.4	15669.2	15359.9	14633.4	13405.3	12421.0	12360.1
60°	12163.2	12430.4	13471.0	15566.1	18092.5	19339.3	17281.6	14750.6	12660.1	11464.8	11375.8
62.5°	9721.2	9735.3	11282.0	14460.0	19667.4	22934.4	18017.5	13649.1	10672.7	9318.1	8961.9
64°	6923.0	7054.2	8830.6	12800.7	19339.3	24396.8	17928.5	12210.1	8797.8	6876.1	6627.7
65°	4968.4	5151.2	6866.7	11113.3	18570.6	24223.4	17661.3	10972.7	7115.1	5249.6	4996.5
67.5°	1828.0	1903.0	2695.1	5559.0	13335.0	20642.3	13995.9	6032.4	3126.3	2226.4	2001.4
70°	848.4	853.1	998.4	1837.4	5830.9	13803.7	6679.2	2263.9	1176.5	932.7	867.1
72.5°	623.4	637.5	698.4	848.4	1715.5	5844.9	2193.6	928.1	689.0	609.3	595.3
75°	506.2	515.6	534.3	614.0	792.1	1565.5	890.6	642.1	548.4	492.2	473.4
77.5°	389.0	389.0	431.2	468.7	525.0	731.2	590.6	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	304.7	281.2
82.5°	164.1	178.1	243.7	262.5	253.1	285.9	309.4	328.1	285.9	210.9	192.2
85°	93.7	98.4	140.6	145.3	145.3	135.9	178.1	196.9	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°	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6
2.5°	4860.6	4790.3	4795.0	4813.7	4752.8	4776.2	4846.5	4795.0	4780.9	4752.8	4738.7
5°	4837.2	4912.2	4884.0	4893.4	4879.4	4813.7	4804.4	4846.5	4870.0	4827.8	4912.2
7.5°	5001.2	4968.4	4930.9	4945.0	4912.2	4968.4	5005.9	4921.5	4963.7	4940.3	4893.4
10°	5095.0	5034.0	5062.2	5052.8	5029.3	5085.6	5048.1	5038.7	5001.2	4949.7	5024.7
12.5°	5127.8	5198.1	5245.0	5165.3	5179.3	5151.2	5127.8	5127.8	5085.6	5071.5	5085.6
15°	5273.1	5334.0	5315.3	5376.2	5296.5	5324.6	5352.8	5282.5	5320.0	5216.8	5296.5
17.5°	5540.2	5488.7	5554.3	5474.6	5502.8	5559.0	5469.9	5469.9	5498.1	5441.8	5371.5
20°	5709.0	5685.6	5662.1	5666.8	5619.9	5671.5	5643.4	5629.3	5587.1	5605.9	5643.4
22.5°	5868.4	5835.5	5844.9	5859.0	5891.8	5868.4	5854.3	5868.4	5765.2	5859.0	5727.7
25°	6065.2	6154.3	6126.1	6187.1	6093.3	6154.3	6149.6	6060.5	6116.8	6079.3	6051.2
27.5°	6393.3	6346.4	6388.6	6313.6	6379.3	6383.9	6327.7	6477.7	6412.1	6402.7	6383.9
30°	6815.2	6782.4	6754.2	6712.0	6763.6	6721.4	6768.3	6782.4	6721.4	6674.5	6585.5
32.5°	7054.2	7143.3	7176.1	7073.0	7077.6	7101.1	7058.9	7016.7	7054.2	7068.3	7054.2
35°	7391.7	7476.1	7494.8	7415.1	7372.9	7490.1	7405.7	7546.4	7424.5	7429.2	7302.6
37.5°	7785.4	7808.8	7968.2	7879.2	7841.7	7785.4	7940.1	7921.3	7949.5	7724.5	7837.0
40°	8230.7	8315.1	8404.1	8179.1	8174.4	8226.0	8216.6	8324.4	8272.9	8240.1	8160.4
42.5°	8718.2	8896.3	8910.3	8760.3	8666.6	8657.2	8704.1	8943.1	8947.8	8732.2	8638.5
45°	9365.0	9561.8	9510.3	9219.7	9116.6	9102.5	9332.2	9435.3	9524.4	9440.0	9360.3
47.5°	10171.2	10302.4	10264.9	9997.8	9665.0	9758.7	9983.7	10307.1	10213.4	10100.9	10007.1
50°	11033.6	11188.3	11108.6	10841.5	10522.7	10522.7	10799.3	11211.7	11183.6	10963.3	10878.9
52.5°	11989.8	12214.8	12397.6	12017.9	11750.8	11792.9	12228.9	12378.8	12308.5	12153.9	12083.6
55°	12702.3	13133.5	13508.5	13527.2	13541.3	13536.6	13649.1	13799.1	13297.5	13049.1	12796.0
57.5°	12528.8	13344.4	14628.7	15500.5	15758.3	15894.2	15856.7	15163.0	13977.2	13161.6	13246.0
60°	11291.4	12622.6	14694.3	17492.6	19367.4	19179.9	18495.6	15753.6	13602.2	12224.2	12050.7
62.5°	9008.8	10611.8	13592.8	18055.0	23220.3	23164.0	19583.0	14389.6	11333.6	9590.0	9482.2
64°	6787.0	8474.4	12125.7	17909.7	24570.2	24626.5	19306.5	12711.6	8868.1	6787.0	6623.0
65°	5193.4	6758.9	10686.8	17609.7	24279.6	24312.4	18537.8	10977.4	6740.2	4818.4	4640.3
67.5°	2067.0	2877.9	5798.0	13353.8	20848.6	20759.5	13227.2	5310.6	2577.9	1678.0	1645.2
70°	881.2	1096.8	2034.2	6327.7	13958.4	13700.6	5694.9	1724.9	956.2	801.5	796.8
72.5°	604.6	670.3	871.8	1954.6	5802.7	5666.8	1621.8	801.5	651.5	600.0	600.0
75°	487.5	534.3	632.8	820.3	1537.4	1481.1	764.0	590.6	520.3	482.8	478.1
77.5°	379.7	426.5	496.8	567.1	703.1	698.4	510.9	445.3	403.1	375.0	365.6
80°	300.0	346.9	393.7	403.1	459.3	450.0	346.9	351.5	328.1	271.9	267.2
82.5°	206.2	281.2	314.0	285.9	271.9	271.9	248.4	248.4	229.7	168.7	154.7
85°	126.6	187.5	196.9	168.7	126.6	126.6	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)