

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: P478813

Luminaire Tested: **IFLD-L-SA8D-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478813
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

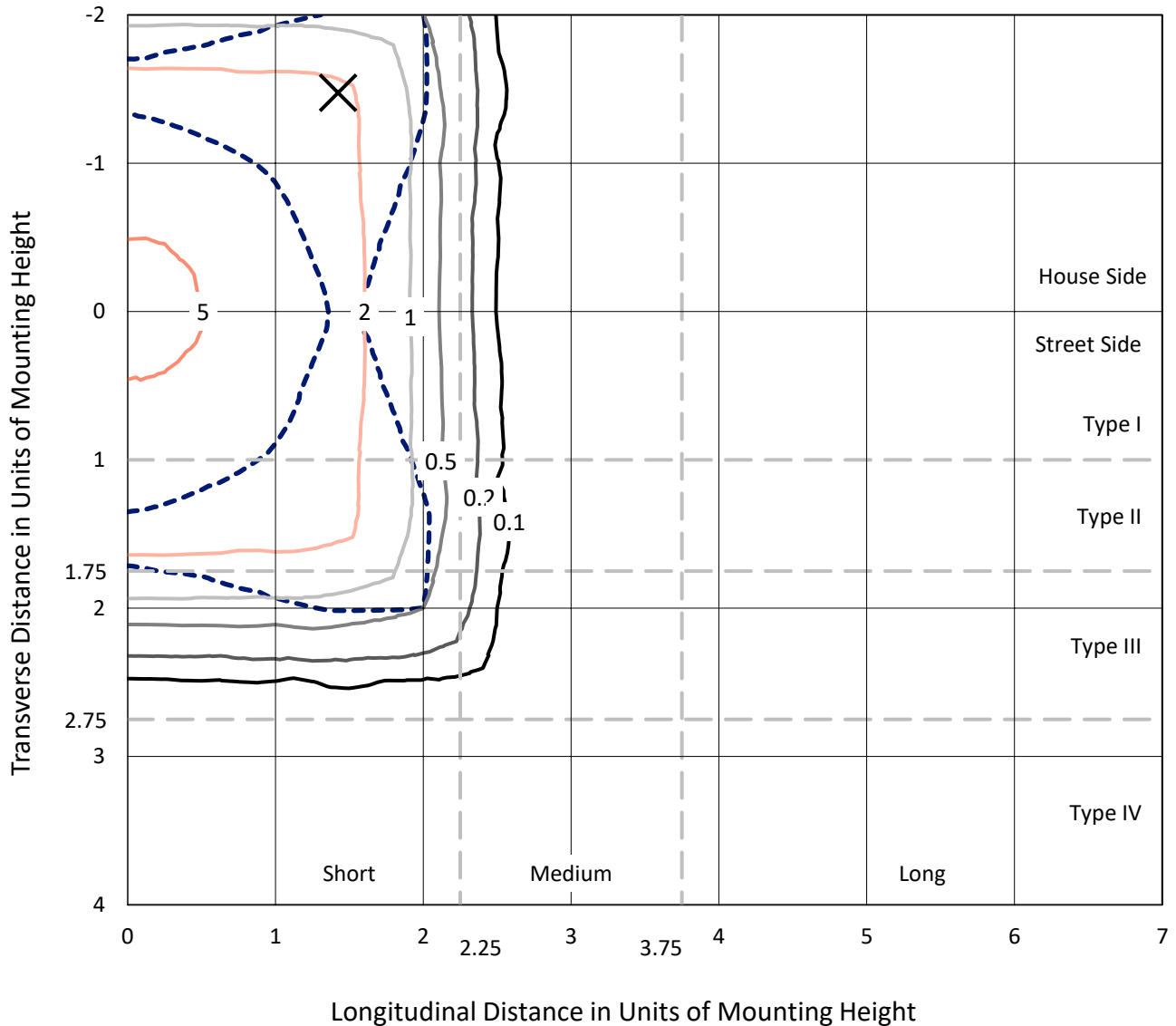
Lumens per Lamp: N/A
Luminaire Lumens: 40955.9 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

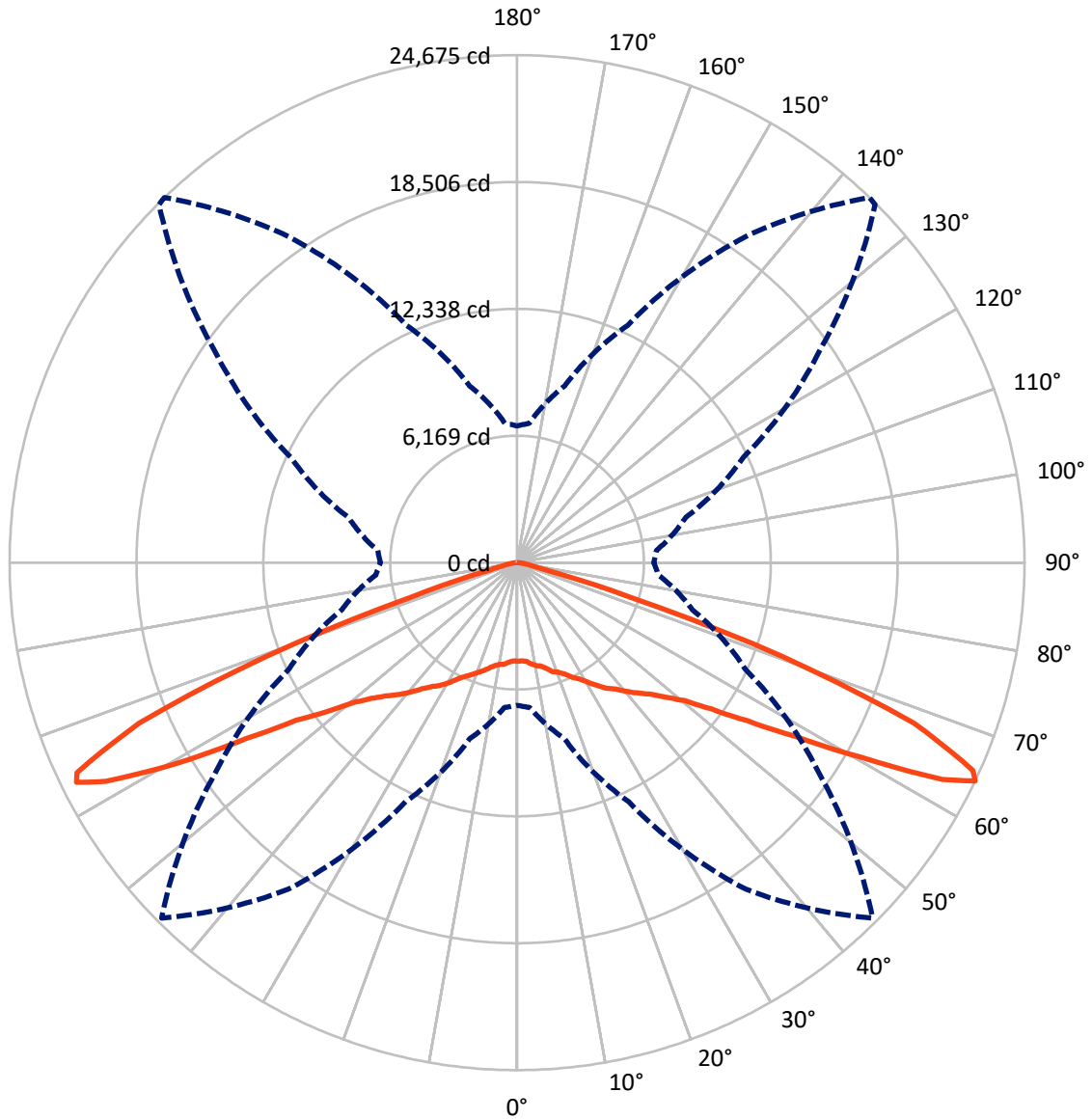
✕ Max cd
 - - - 1/2 Max cd



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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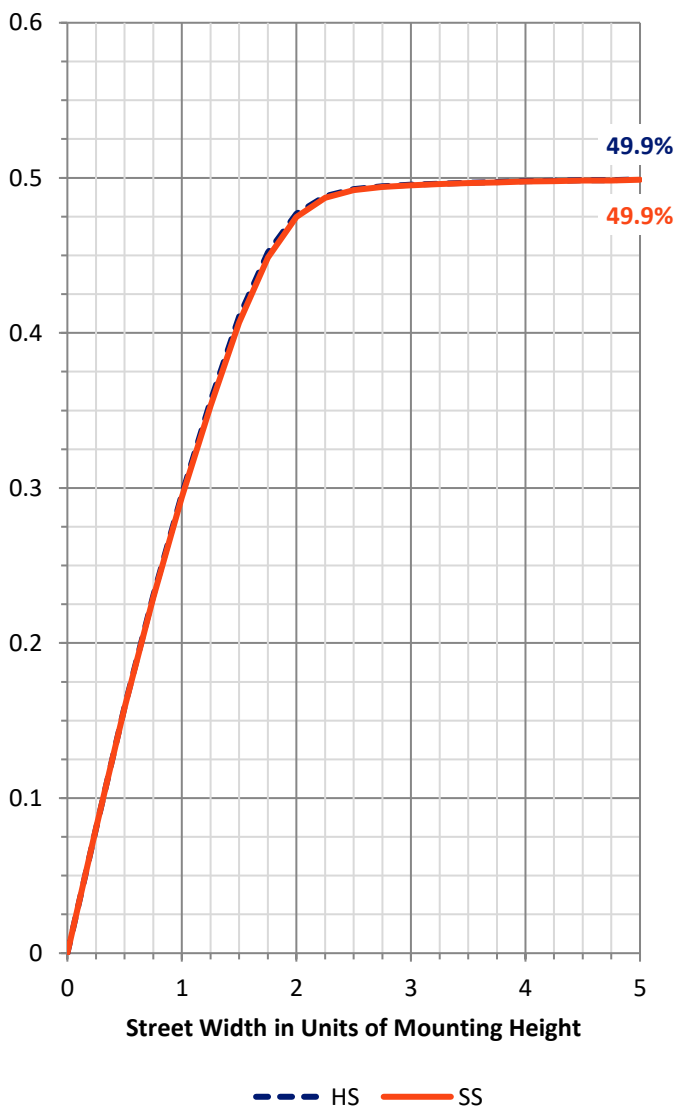
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20497.5	0.0	20497.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20458.4	0.0	20458.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	40955.9	0.0	40955.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.2	1.2
10°-20°	1518.5	3.7
20°-30°	2853.9	7.0
30°-40°	4706.6	11.5
40°-50°	7360.9	18.0
50°-60°	11893.4	29.0
60°-70°	10709.2	26.1
70°-80°	1268.6	3.1
80°-90°	173.6	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°	40955.9	100.0
0°-180°	40955.9	100.0

Coefficient of Utilization



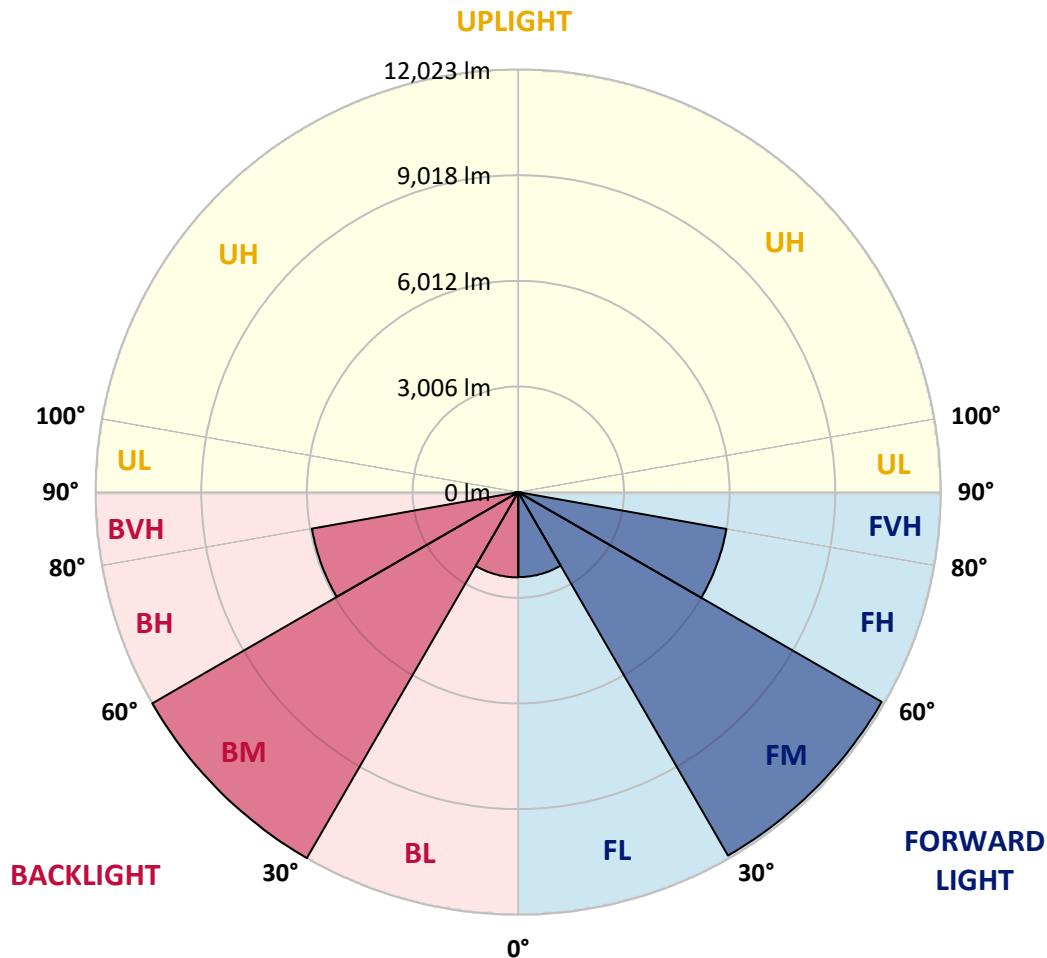
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.1	5.9			
FM (30°-60°)	11937.4	29.1			
FH (60°-80°)	6014.8	14.7			G3/7500
FVH (80°-90°)	89.1	0.2			G1/100
BL (0°-30°)	2426.5	5.9	B3/2500		
BM (30°-60°)	12023.5	29.4	B5		
BH (60°-80°)	5962.9	14.6	B5		G3/7500
BVH (80°-90°)	84.6	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°	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1
2.5°	4738.7	4748.1	4832.7	4799.8	4828.0	4776.3	4813.9	4893.7	4799.8	4870.2	4893.7
5°	4790.4	4804.5	4804.5	4837.4	4856.1	4846.8	4870.2	4837.4	4926.6	4889.0	4945.4
7.5°	4978.3	4954.8	4917.2	4945.4	4950.1	4973.6	4997.0	5039.3	5025.2	4992.3	5048.7
10°	5011.1	4992.3	5048.7	5053.4	5029.9	5011.1	5034.6	5034.6	5076.9	5086.3	5086.3
12.5°	5067.5	5086.3	5081.6	5119.1	5123.8	5109.8	5147.3	5217.8	5199.0	5213.1	5180.2
15°	5283.5	5260.0	5255.3	5292.9	5354.0	5264.7	5330.5	5325.8	5307.0	5335.2	5260.0
17.5°	5471.4	5396.2	5429.1	5490.2	5466.7	5485.5	5570.0	5494.9	5513.6	5480.8	5457.3
20°	5635.8	5574.7	5579.4	5602.9	5602.9	5659.2	5692.1	5663.9	5645.1	5640.5	5649.8
22.5°	5818.9	5748.5	5753.2	5851.8	5884.7	5865.9	5842.4	5889.4	5898.8	5861.2	5903.5
25°	5955.1	6030.3	6053.7	6100.7	6030.3	6081.9	6063.1	6152.4	6208.7	6133.6	6185.2
27.5°	6312.0	6279.2	6340.2	6335.5	6391.9	6340.2	6373.1	6401.3	6424.8	6429.5	6406.0
30°	6631.4	6645.5	6584.4	6748.8	6617.3	6701.9	6758.2	6772.3	6800.5	6800.5	6730.0
32.5°	6969.6	6941.4	7040.0	7002.4	6978.9	7044.7	6983.6	7176.2	7063.5	7129.2	7049.4
35°	7350.0	7350.0	7387.5	7490.9	7350.0	7307.7	7420.4	7500.3	7500.3	7382.8	7411.0
37.5°	7777.3	7739.8	7786.7	7918.2	7810.2	7669.3	7876.0	7908.8	7885.4	7852.5	7796.1
40°	8077.9	8068.5	8162.5	8336.2	8181.2	8153.1	8190.6	8279.9	8308.0	8340.9	8265.8
42.5°	8585.1	8627.4	8899.8	8857.5	8730.7	8632.1	8622.7	8956.2	8876.3	8791.8	8749.5
45°	9336.6	9299.0	9439.9	9444.6	9280.2	9064.2	9111.1	9416.4	9552.6	9364.7	9435.2
47.5°	9933.0	9951.8	10050.4	10252.4	9872.0	9646.5	9820.3	10313.4	10271.2	10200.7	10266.5
50°	10731.4	10816.0	11125.9	11055.5	10717.3	10440.2	10820.7	11285.6	11337.3	11079.0	11032.0
52.5°	11835.1	11966.6	12135.7	12192.0	11868.0	11769.3	11792.8	12370.5	12243.7	11994.8	11835.1
55°	12802.6	12863.6	13173.6	13638.5	13615.0	13140.7	13413.1	13629.1	13112.5	12600.6	12642.9
57.5°	13215.8	13244.0	14108.2	15038.1	15592.3	15700.3	15390.3	14662.4	13431.9	12445.6	12384.6
60°	12187.3	12455.0	13497.6	15597.0	18128.3	19377.6	17315.9	14779.8	12685.1	11487.5	11398.3
62.5°	9740.5	9754.6	11304.4	14488.6	19706.4	22979.8	18053.2	13676.1	10693.8	9336.6	8979.6
64°	6936.7	7068.2	8848.1	12826.0	19377.6	24445.1	17964.0	12234.3	8815.3	6889.7	6640.8
65°	4978.3	5161.4	6880.3	11135.3	18607.4	24271.3	17696.3	10994.4	7129.2	5260.0	5006.4
67.5°	1831.6	1906.8	2700.5	5570.0	13361.4	20683.2	14023.6	6044.3	3132.5	2230.8	2005.4
70°	850.1	854.8	1000.3	1841.0	5842.4	13831.1	6692.5	2268.4	1178.8	934.6	868.8
72.5°	624.6	638.7	699.8	850.1	1718.9	5856.5	2197.9	929.9	690.4	610.5	596.5
75°	507.2	516.6	535.4	615.2	793.7	1568.6	892.3	643.4	549.5	493.1	474.3
77.5°	389.8	389.8	432.1	469.6	526.0	732.6	591.8	511.9	446.2	389.8	375.7
80°	281.8	286.5	338.1	366.3	356.9	483.7	427.4	422.7	366.3	305.3	281.8
82.5°	164.4	178.5	244.2	263.0	253.6	286.5	310.0	328.8	286.5	211.3	192.6
85°	93.9	98.6	140.9	145.6	145.6	136.2	178.5	197.3	192.6	131.5	117.4
87.5°	28.2	28.2	37.6	37.6	42.3	47.0	70.4	84.5	93.9	65.8	61.1
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°	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1	4795.1
2.5°	4870.2	4799.8	4804.5	4823.3	4762.2	4785.7	4856.1	4804.5	4790.4	4762.2	4748.1
5°	4846.8	4921.9	4893.7	4903.1	4889.0	4823.3	4813.9	4856.1	4879.6	4837.4	4921.9
7.5°	5011.1	4978.3	4940.7	4954.8	4921.9	4978.3	5015.8	4931.3	4973.6	4950.1	4903.1
10°	5105.1	5044.0	5072.2	5062.8	5039.3	5095.7	5058.1	5048.7	5011.1	4959.5	5034.6
12.5°	5137.9	5208.4	5255.3	5175.5	5189.6	5161.4	5137.9	5137.9	5095.7	5081.6	5095.7
15°	5283.5	5344.6	5325.8	5386.8	5307.0	5335.2	5363.4	5292.9	5330.5	5227.2	5307.0
17.5°	5551.2	5499.6	5565.3	5485.5	5513.6	5570.0	5480.8	5480.8	5509.0	5452.6	5382.1
20°	5720.3	5696.8	5673.3	5678.0	5631.1	5682.7	5654.5	5640.5	5598.2	5617.0	5654.5
22.5°	5880.0	5847.1	5856.5	5870.6	5903.5	5880.0	5865.9	5880.0	5776.7	5870.6	5739.1
25°	6077.2	6166.5	6138.3	6199.3	6105.4	6166.5	6161.8	6072.5	6128.9	6091.3	6063.1
27.5°	6406.0	6359.0	6401.3	6326.1	6391.9	6396.6	6340.2	6490.5	6424.8	6415.4	6396.6
30°	6828.7	6795.8	6767.6	6725.3	6777.0	6734.7	6781.7	6795.8	6734.7	6687.8	6598.5
32.5°	7068.2	7157.4	7190.3	7087.0	7091.7	7115.1	7072.9	7030.6	7068.2	7082.3	7068.2
35°	7406.3	7490.9	7509.6	7429.8	7387.5	7504.9	7420.4	7561.3	7439.2	7443.9	7317.1
37.5°	7800.8	7824.3	7984.0	7894.8	7857.2	7800.8	7955.8	7937.0	7965.2	7739.8	7852.5
40°	8247.0	8331.5	8420.8	8195.3	8190.6	8242.3	8232.9	8340.9	8289.3	8256.4	8176.5
42.5°	8735.4	8913.9	8928.0	8777.7	8683.8	8674.4	8721.3	8960.9	8965.5	8749.5	8655.6
45°	9383.5	9580.8	9529.1	9237.9	9134.6	9120.5	9350.7	9454.0	9543.2	9458.7	9378.8
47.5°	10191.3	10322.8	10285.3	10017.6	9684.1	9778.0	10003.5	10327.5	10233.6	10120.9	10026.9
50°	11055.5	11210.5	11130.6	10862.9	10543.6	10543.6	10820.7	11233.9	11205.8	10985.0	10900.5
52.5°	12013.6	12239.0	12422.1	12041.7	11774.0	11816.3	12253.1	12403.4	12332.9	12177.9	12107.5
55°	12727.4	13159.5	13535.2	13554.0	13568.1	13563.4	13676.1	13826.4	13323.9	13075.0	12821.3
57.5°	12553.6	13370.8	14657.7	15531.2	15789.5	15925.7	15888.1	15193.1	14004.9	13187.7	13272.2
60°	11313.8	12647.6	14723.4	17527.2	19405.8	19217.9	18532.2	15784.8	13629.1	12248.4	12074.6
62.5°	9026.6	10632.8	13619.7	18090.8	23266.3	23209.9	19621.8	14418.1	11356.0	9609.0	9500.9
64°	6800.5	8491.2	12149.8	17945.2	24618.9	24675.2	19344.7	12736.8	8885.7	6800.5	6636.1
65°	5203.7	6772.3	10707.9	17644.6	24327.7	24360.6	18574.5	10999.1	6753.5	4828.0	4649.5
67.5°	2071.1	2883.6	5809.5	13380.2	20889.9	20800.6	13253.4	5321.1	2583.1	1681.3	1648.5
70°	882.9	1099.0	2038.3	6340.2	13986.1	13727.8	5706.2	1728.3	958.1	803.1	798.4
72.5°	605.8	671.6	873.5	1958.4	5814.2	5678.0	1625.0	803.1	652.8	601.1	601.1
75°	488.4	535.4	634.0	821.9	1540.4	1484.1	765.5	591.8	521.3	483.7	479.0
77.5°	380.4	427.4	497.8	568.3	704.5	699.8	511.9	446.2	403.9	375.7	366.3
80°	300.6	347.5	394.5	403.9	460.3	450.9	347.5	352.2	328.8	272.4	267.7
82.5°	206.6	281.8	314.7	286.5	272.4	272.4	248.9	248.9	230.1	169.1	155.0
85°	126.8	187.9	197.3	169.1	126.8	126.8	136.2	131.5	122.1	89.2	84.5
87.5°	65.8	89.2	79.8	65.8	42.3	42.3	37.6	28.2	28.2	23.5	23.5
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)