

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: P478999

Luminaire Tested: **IFLD-M-SA4E-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478999
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

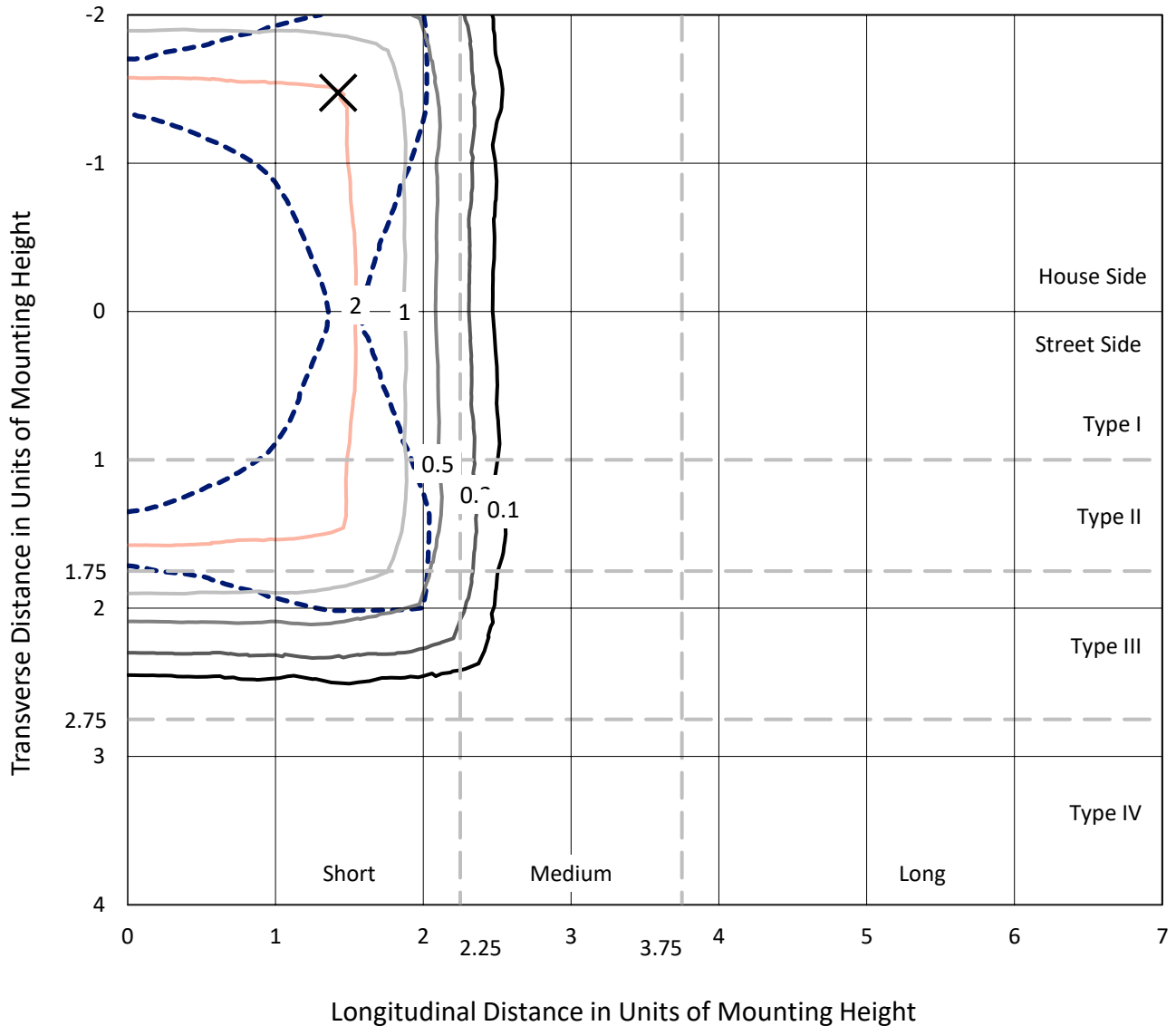
Lumens per Lamp: N/A
Luminaire Lumens: 36936.4 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 314.8
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

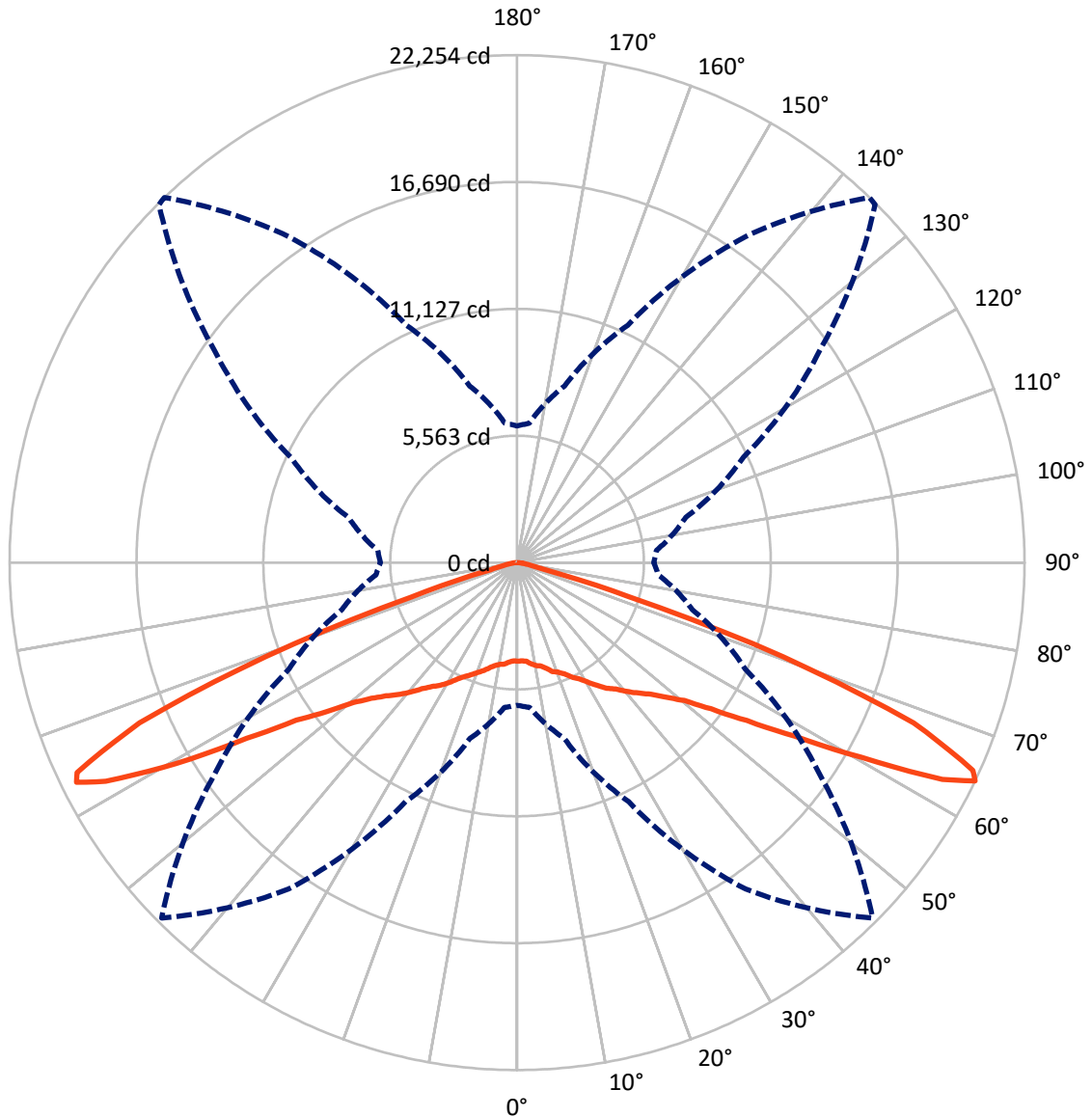
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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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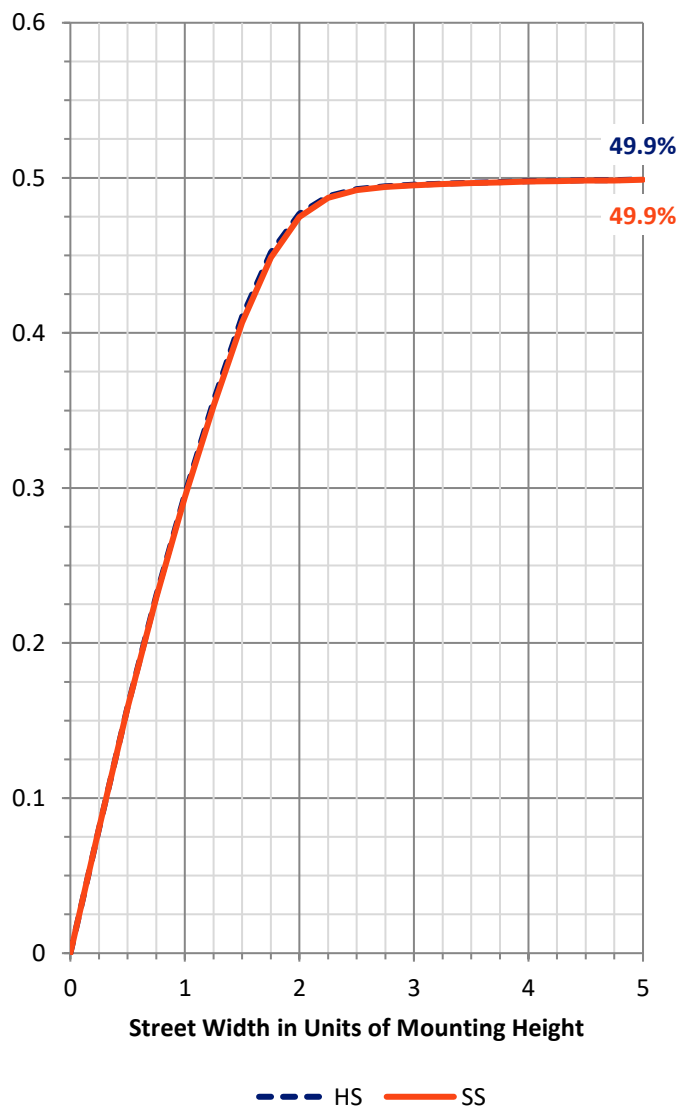
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18485.8	0.0	18485.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18450.6	0.0	18450.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	36936.4	0.0	36936.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.9	1.2
10°-20°	1369.5	3.7
20°-30°	2573.8	7.0
30°-40°	4244.7	11.5
40°-50°	6638.4	18.0
50°-60°	10726.1	29.0
60°-70°	9658.2	26.1
70°-80°	1144.1	3.1
80°-90°	156.6	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°	36936.4	100.0
0°-180°	36936.4	100.0

Coefficient of Utilization



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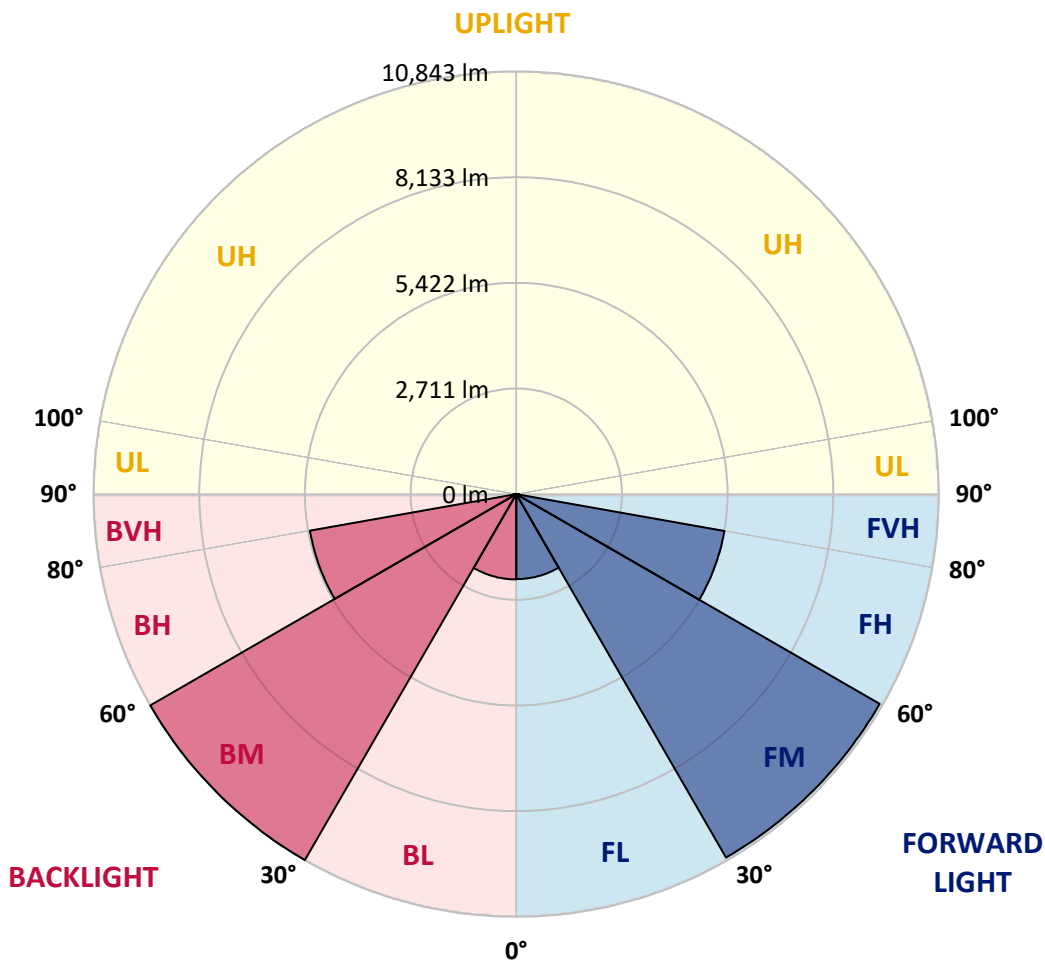
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.9	5.9			
FM (30°-60°)	10765.8	29.1			
FH (60°-80°)	5424.5	14.7			G3/7500
FVH (80°-90°)	80.3	0.2			G1/100
BL (0°-30°)	2188.3	5.9	B3/2500		
BM (30°-60°)	10843.5	29.4	B5		
BH (60°-80°)	5377.7	14.6	B5		G3/7500
BVH (80°-90°)	76.3	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°	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5
2.5°	4273.7	4282.1	4358.4	4328.7	4354.1	4307.6	4341.4	4413.4	4328.7	4392.3	4413.4
5°	4320.3	4333.0	4333.0	4362.6	4379.6	4371.1	4392.3	4362.6	4443.1	4409.2	4460.0
7.5°	4489.7	4468.5	4434.6	4460.0	4464.3	4485.4	4506.6	4544.7	4532.0	4502.4	4553.2
10°	4519.3	4502.4	4553.2	4557.4	4536.3	4519.3	4540.5	4540.5	4578.6	4587.1	4587.1
12.5°	4570.2	4587.1	4582.9	4616.7	4621.0	4608.3	4642.2	4705.7	4688.8	4701.5	4671.8
15°	4765.0	4743.8	4739.6	4773.5	4828.5	4748.0	4807.3	4803.1	4786.2	4811.6	4743.8
17.5°	4934.4	4866.6	4896.3	4951.4	4930.2	4947.1	5023.4	4955.6	4972.5	4942.9	4921.7
20°	5082.7	5027.6	5031.8	5053.0	5053.0	5103.8	5133.5	5108.1	5091.1	5086.9	5095.4
22.5°	5247.8	5184.3	5188.5	5277.5	5307.1	5290.2	5269.0	5311.4	5319.8	5286.0	5324.1
25°	5370.7	5438.4	5459.6	5502.0	5438.4	5485.0	5468.1	5548.6	5599.4	5531.6	5578.2
27.5°	5692.6	5662.9	5718.0	5713.8	5764.6	5718.0	5747.6	5773.1	5794.2	5798.5	5777.3
30°	5980.6	5993.3	5938.2	6086.5	5967.9	6044.1	6095.0	6107.7	6133.1	6133.1	6069.5
32.5°	6285.6	6260.1	6349.1	6315.2	6294.0	6353.3	6298.3	6471.9	6370.3	6429.6	6357.6
35°	6628.6	6628.6	6662.5	6755.7	6628.6	6590.5	6692.2	6764.2	6764.2	6658.3	6683.7
37.5°	7014.1	6980.2	7022.5	7141.1	7043.7	6916.6	7103.0	7132.7	7111.5	7081.8	7031.0
40°	7285.1	7276.7	7361.4	7518.1	7378.3	7352.9	7386.8	7467.3	7492.7	7522.3	7454.6
42.5°	7742.6	7780.7	8026.4	7988.2	7873.9	7784.9	7776.5	8077.2	8005.2	7928.9	7890.8
45°	8420.3	8386.4	8513.4	8517.7	8369.4	8174.6	8217.0	8492.3	8615.1	8445.7	8509.2
47.5°	8958.2	8975.1	9064.1	9246.2	8903.1	8699.8	8856.5	9301.3	9263.1	9199.6	9258.9
50°	9678.2	9754.5	10034.0	9970.5	9665.5	9415.6	9758.7	10178.0	10224.6	9991.7	9949.3
52.5°	10673.6	10792.2	10944.7	10995.5	10703.2	10614.3	10635.5	11156.4	11042.1	10817.6	10673.6
55°	11546.1	11601.2	11880.7	12300.0	12278.9	11851.1	12096.7	12291.6	11825.6	11364.0	11402.1
57.5°	11918.8	11944.2	12723.6	13562.2	14062.0	14159.4	13879.9	13223.4	12113.7	11224.2	11169.1
60°	10991.2	11232.7	12173.0	14066.3	16349.2	17475.9	15616.5	13329.3	11440.2	10360.1	10279.7
62.5°	8784.5	8797.2	10195.0	13066.7	17772.4	20724.5	16281.4	12333.9	9644.3	8420.3	8098.4
64°	6255.9	6374.5	7979.8	11567.3	17475.9	22046.0	16201.0	11033.6	7950.1	6213.5	5989.1
65°	4489.7	4654.9	6205.1	10042.5	16781.2	21889.3	15959.5	9915.4	6429.6	4743.8	4515.1
67.5°	1651.9	1719.6	2435.4	5023.4	12050.1	18653.3	12647.3	5451.1	2825.1	2011.9	1808.6
70°	766.6	770.9	902.2	1660.3	5269.0	12473.7	6035.7	2045.8	1063.1	842.9	783.6
72.5°	563.3	576.0	631.1	766.6	1550.2	5281.7	1982.2	838.6	622.6	550.6	537.9
75°	457.4	465.9	482.9	554.9	715.8	1414.7	804.8	580.3	495.6	444.7	427.8
77.5°	351.6	351.6	389.7	423.6	474.4	660.7	533.7	461.7	402.4	351.6	338.8
80°	254.1	258.4	305.0	330.4	321.9	436.3	385.4	381.2	330.4	275.3	254.1
82.5°	148.2	161.0	220.2	237.2	228.7	258.4	279.5	296.5	258.4	190.6	173.7
85°	84.7	88.9	127.1	131.3	131.3	122.8	161.0	177.9	173.7	118.6	105.9
87.5°	25.4	25.4	33.9	33.9	38.1	42.4	63.5	76.2	84.7	59.3	55.1
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°	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5
2.5°	4392.3	4328.7	4333.0	4349.9	4294.8	4316.0	4379.6	4333.0	4320.3	4294.8	4282.1
5°	4371.1	4438.9	4413.4	4421.9	4409.2	4349.9	4341.4	4379.6	4400.7	4362.6	4438.9
7.5°	4519.3	4489.7	4455.8	4468.5	4438.9	4489.7	4523.6	4447.3	4485.4	4464.3	4421.9
10°	4604.0	4549.0	4574.4	4565.9	4544.7	4595.6	4561.7	4553.2	4519.3	4472.7	4540.5
12.5°	4633.7	4697.2	4739.6	4667.6	4680.3	4654.9	4633.7	4633.7	4595.6	4582.9	4595.6
15°	4765.0	4820.1	4803.1	4858.2	4786.2	4811.6	4837.0	4773.5	4807.3	4714.2	4786.2
17.5°	5006.4	4959.8	5019.1	4947.1	4972.5	5023.4	4942.9	4942.9	4968.3	4917.5	4853.9
20°	5158.9	5137.7	5116.5	5120.8	5078.4	5125.0	5099.6	5086.9	5048.8	5065.7	5099.6
22.5°	5302.9	5273.3	5281.7	5294.4	5324.1	5302.9	5290.2	5302.9	5209.7	5294.4	5175.8
25°	5480.8	5561.3	5535.9	5590.9	5506.2	5561.3	5557.0	5476.6	5527.4	5493.5	5468.1
27.5°	5777.3	5734.9	5773.1	5705.3	5764.6	5768.8	5718.0	5853.5	5794.2	5785.8	5768.8
30°	6158.5	6128.8	6103.4	6065.3	6111.9	6073.8	6116.1	6128.8	6073.8	6031.4	5950.9
32.5°	6374.5	6455.0	6484.6	6391.4	6395.7	6416.9	6378.7	6340.6	6374.5	6387.2	6374.5
35°	6679.5	6755.7	6772.6	6700.6	6662.5	6768.4	6692.2	6819.2	6709.1	6713.3	6599.0
37.5°	7035.2	7056.4	7200.4	7120.0	7086.1	7035.2	7175.0	7158.1	7183.5	6980.2	7081.8
40°	7437.6	7513.9	7594.3	7391.0	7386.8	7433.4	7424.9	7522.3	7475.7	7446.1	7374.1
42.5°	7878.1	8039.1	8051.8	7916.2	7831.5	7823.1	7865.4	8081.4	8085.7	7890.8	7806.1
45°	8462.6	8640.5	8593.9	8331.3	8238.1	8225.4	8433.0	8526.2	8606.6	8530.4	8458.4
47.5°	9191.1	9309.7	9275.8	9034.4	8733.7	8818.4	9021.7	9314.0	9229.3	9127.6	9042.9
50°	9970.5	10110.3	10038.2	9796.8	9508.8	9508.8	9758.7	10131.4	10106.0	9906.9	9830.7
52.5°	10834.5	11037.8	11203.0	10859.9	10618.5	10656.6	11050.5	11186.1	11122.5	10982.8	10919.2
55°	11478.3	11868.0	12206.8	12223.8	12236.5	12232.3	12333.9	12469.4	12016.2	11791.8	11563.0
57.5°	11321.6	12058.6	13219.1	14007.0	14239.9	14362.7	14328.9	13702.0	12630.4	11893.4	11969.7
60°	10203.4	11406.3	13278.4	15807.1	17501.3	17331.9	16713.5	14235.7	12291.6	11046.3	10889.6
62.5°	8140.7	9589.3	12283.1	16315.3	20982.9	20932.1	17696.1	13003.1	10241.6	8665.9	8568.5
64°	6133.1	7657.9	10957.4	16184.0	22202.7	22253.6	17446.2	11486.8	8013.7	6133.1	5984.8
65°	4693.0	6107.7	9657.0	15912.9	21940.1	21969.8	16751.6	9919.7	6090.7	4354.1	4193.2
67.5°	1867.9	2600.6	5239.4	12067.1	18839.7	18759.2	11952.7	4798.9	2329.6	1516.3	1486.7
70°	796.3	991.1	1838.2	5718.0	12613.5	12380.5	5146.2	1558.7	864.1	724.3	720.0
72.5°	546.4	605.7	787.8	1766.2	5243.6	5120.8	1465.5	724.3	588.7	542.1	542.1
75°	440.5	482.9	571.8	741.2	1389.3	1338.4	690.4	533.7	470.1	436.3	432.0
77.5°	343.1	385.4	449.0	512.5	635.3	631.1	461.7	402.4	364.3	338.8	330.4
80°	271.1	313.4	355.8	364.3	415.1	406.6	313.4	317.7	296.5	245.7	241.4
82.5°	186.4	254.1	283.8	258.4	245.7	245.7	224.5	224.5	207.5	152.5	139.8
85°	114.4	169.4	177.9	152.5	114.4	114.4	122.8	118.6	110.1	80.5	76.2
87.5°	59.3	80.5	72.0	59.3	38.1	38.1	33.9	25.4	25.4	21.2	21.2
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)