

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: P478837

Luminaire Tested: **IFLD-S-SA6D-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478837
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

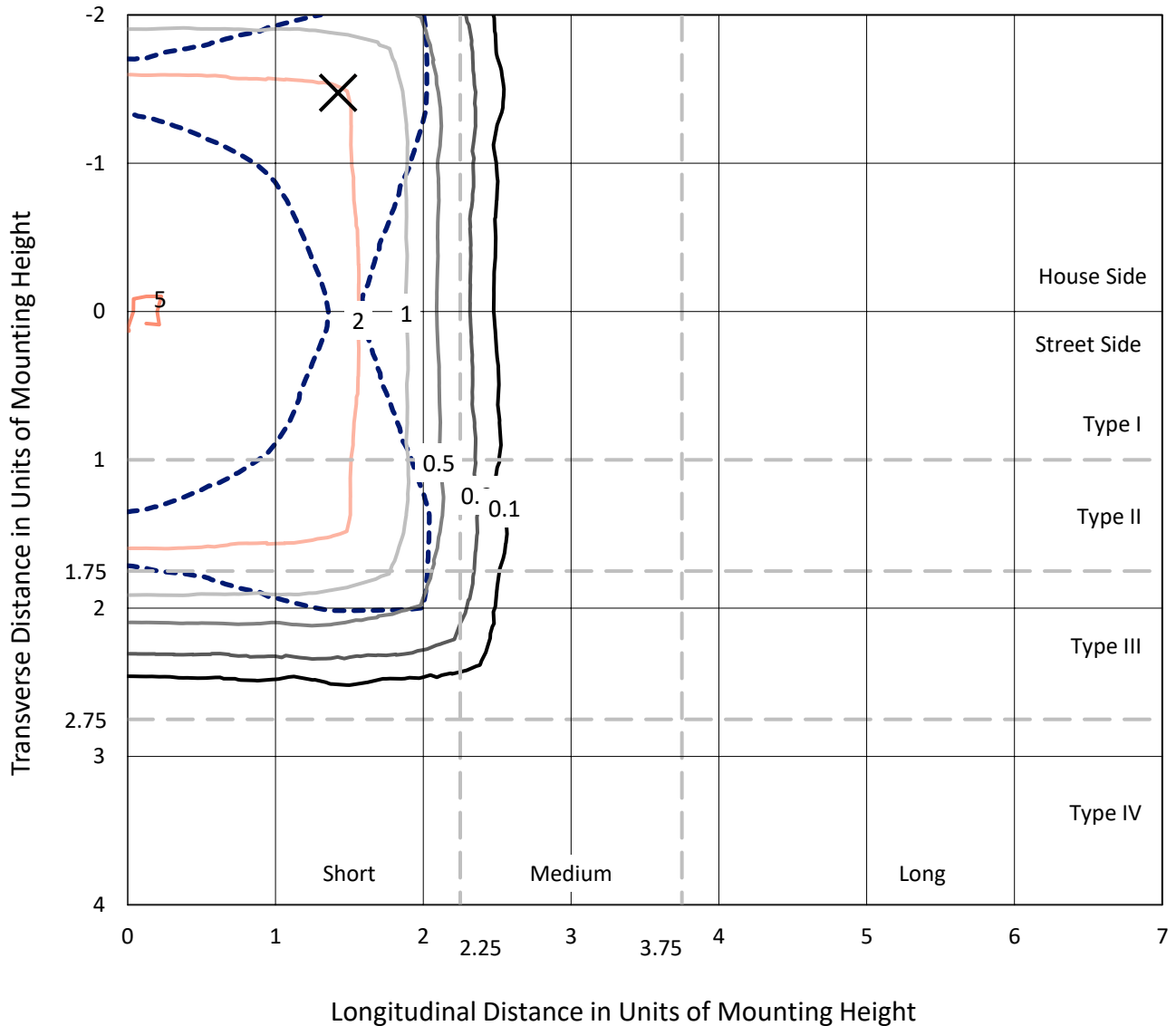
Lumens per Lamp: N/A
Luminaire Lumens: 38136.7 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 368.2
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

REPORT NUMBER: P478837
 CATALOG NUMBER: IFLD-S-SA6D-727-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

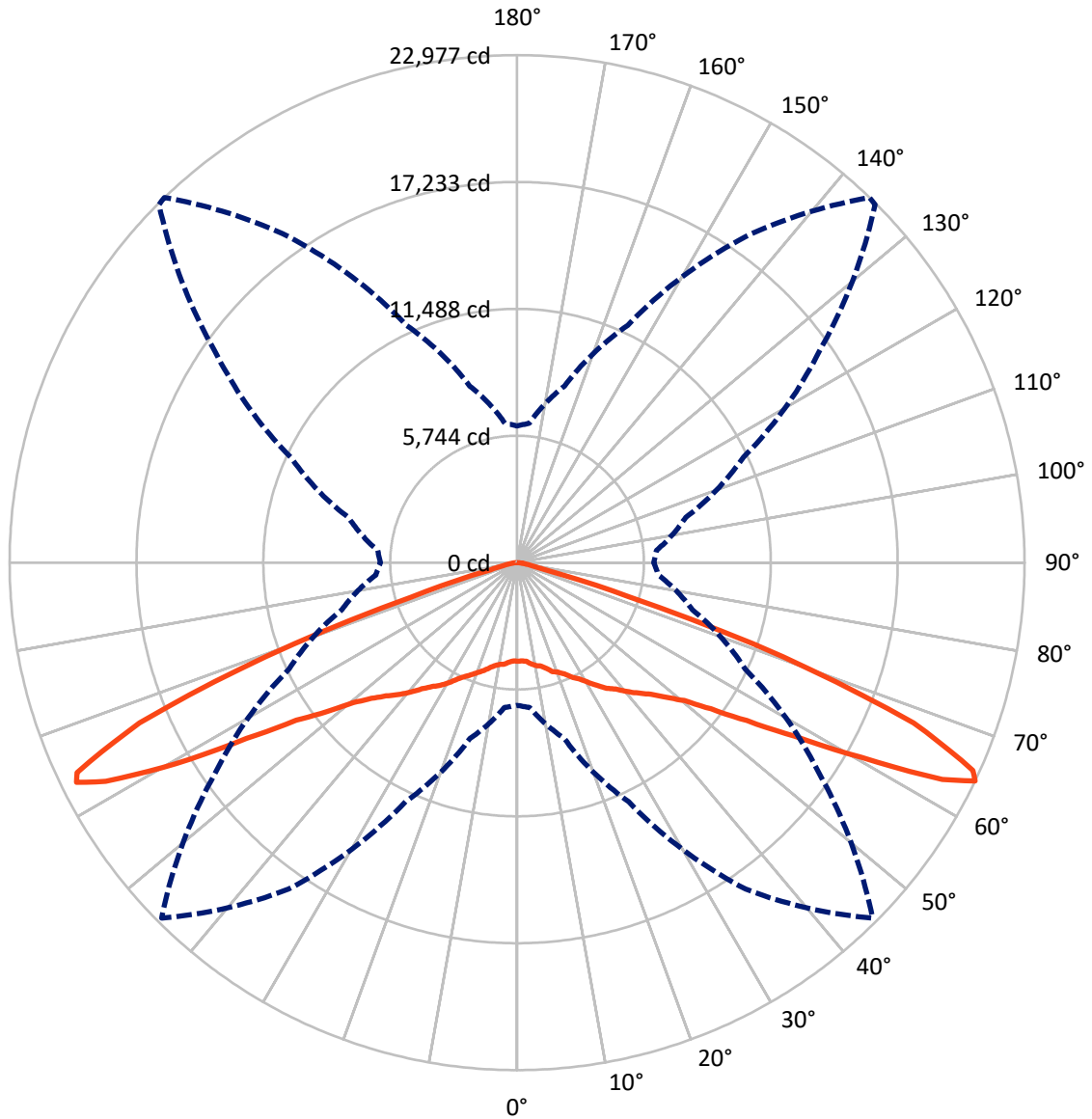
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

REPORT NUMBER: P478837
CATALOG NUMBER: IFLD-S-SA6D-727-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P478837
 CATALOG NUMBER: IFLD-S-SA6D-727-U-5NQ

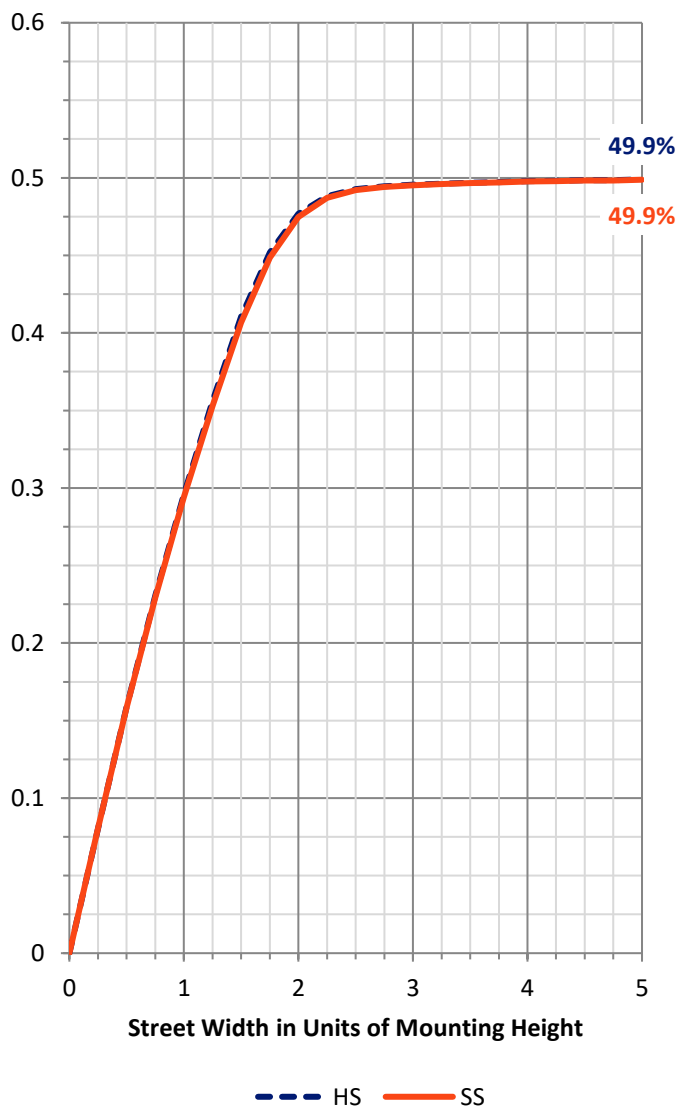
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19086.5	0.0	19086.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19050.2	0.0	19050.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	38136.7	0.0	38136.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.7	1.2
10°-20°	1414.0	3.7
20°-30°	2657.5	7.0
30°-40°	4382.7	11.5
40°-50°	6854.2	18.0
50°-60°	11074.7	29.0
60°-70°	9972.0	26.1
70°-80°	1181.2	3.1
80°-90°	161.7	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°	38136.7	100.0
0°-180°	38136.7	100.0

Coefficient of Utilization



REPORT NUMBER: P478837

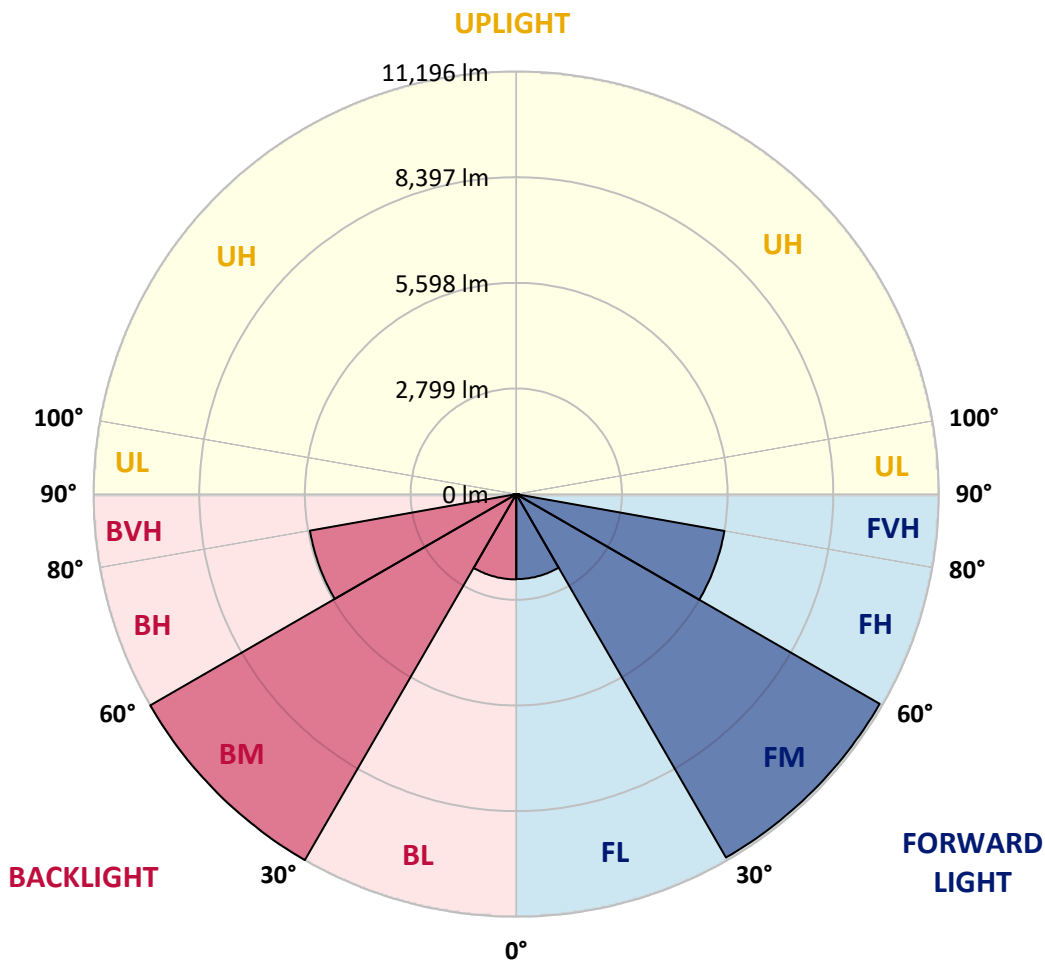
CATALOG NUMBER: IFLD-S-SA6D-727-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2250.8	5.9			
FM (30°-60°)	11115.7	29.1			
FH (60°-80°)	5600.8	14.7			G3/7500
FVH (80°-90°)	82.9	0.2			G1/100
BL (0°-30°)	2259.5	5.9	B3/2500		
BM (30°-60°)	11195.9	29.4	B5		
BH (60°-80°)	5552.5	14.6	B5		G3/7500
BVH (80°-90°)	78.7	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





REPORT NUMBER: P478837

CATALOG NUMBER: IFLD-S-SA6D-727-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0
2.5°	4412.5	4421.3	4500.0	4469.4	4495.6	4447.5	4482.5	4556.9	4469.4	4535.0	4556.9
5°	4460.7	4473.8	4473.8	4504.4	4521.9	4513.1	4535.0	4504.4	4587.5	4552.5	4605.0
7.5°	4635.6	4613.7	4578.7	4605.0	4609.3	4631.2	4653.1	4692.4	4679.3	4648.7	4701.2
10°	4666.2	4648.7	4701.2	4705.6	4683.7	4666.2	4688.1	4688.1	4727.4	4736.2	4736.2
12.5°	4718.7	4736.2	4731.8	4766.8	4771.2	4758.0	4793.0	4858.6	4841.1	4854.2	4823.6
15°	4919.8	4898.0	4893.6	4928.6	4985.4	4902.3	4963.6	4959.2	4941.7	4967.9	4898.0
17.5°	5094.8	5024.8	5055.4	5112.3	5090.4	5107.9	5186.6	5116.6	5134.1	5103.5	5081.6
20°	5247.8	5191.0	5195.4	5217.2	5217.2	5269.7	5300.3	5274.1	5256.6	5252.2	5260.9
22.5°	5418.4	5352.8	5357.2	5449.0	5479.6	5462.1	5440.2	5484.0	5492.7	5457.7	5497.1
25°	5545.2	5615.2	5637.0	5680.8	5615.2	5663.3	5645.8	5728.9	5781.4	5711.4	5759.5
27.5°	5877.6	5847.0	5903.8	5899.4	5951.9	5903.8	5934.4	5960.7	5982.5	5986.9	5965.0
30°	6174.9	6188.1	6131.2	6284.3	6161.8	6240.5	6293.0	6306.1	6332.4	6332.4	6266.8
32.5°	6489.8	6463.6	6555.4	6520.4	6498.6	6559.8	6502.9	6682.2	6577.3	6638.5	6564.2
35°	6844.0	6844.0	6879.0	6975.2	6844.0	6804.7	6909.6	6984.0	6984.0	6874.7	6900.9
37.5°	7242.0	7207.0	7250.8	7373.2	7272.6	7141.4	7333.8	7364.5	7342.6	7312.0	7259.5
40°	7521.9	7513.1	7600.6	7762.4	7618.1	7591.9	7626.8	7709.9	7736.2	7766.8	7696.8
42.5°	7994.2	8033.6	8287.2	8247.8	8129.8	8037.9	8029.2	8339.7	8265.3	8186.6	8147.3
45°	8693.9	8658.9	8790.1	8794.5	8641.4	8440.3	8484.0	8768.2	8895.1	8720.1	8785.7
47.5°	9249.3	9266.8	9358.6	9546.7	9192.4	8982.5	9144.3	9603.5	9564.2	9498.6	9559.8
50°	9992.7	10071.5	10360.1	10294.5	9979.6	9721.6	10075.8	10508.8	10556.9	10316.4	10272.6
52.5°	11020.4	11142.9	11300.3	11352.8	11051.1	10959.2	10981.1	11519.0	11400.9	11169.1	11020.4
55°	11921.3	11978.2	12266.8	12699.7	12677.9	12236.2	12489.8	12691.0	12209.9	11733.3	11772.6
57.5°	12306.2	12332.4	13137.1	14003.0	14519.0	14619.6	14330.9	13653.1	12507.3	11589.0	11532.1
60°	11348.4	11597.7	12568.6	14523.4	16880.5	18043.8	16124.0	13762.4	11812.0	10696.8	10613.7
62.5°	9070.0	9083.1	10526.3	13491.3	18349.9	21398.0	16810.5	12734.7	9957.8	8693.9	8361.5
64°	6459.2	6581.7	8239.1	11943.2	18043.8	22762.5	16727.5	11392.2	8208.5	6415.5	6183.7
65°	4635.6	4806.1	6406.7	10368.8	17326.6	22600.7	16478.2	10237.6	6638.5	4898.0	4661.8
67.5°	1705.5	1775.5	2514.6	5186.6	12441.7	19259.5	13058.3	5628.3	2916.9	2077.3	1867.4
70°	791.5	795.9	931.5	1714.3	5440.2	12879.0	6231.8	2112.3	1097.7	870.3	809.0
72.5°	581.6	594.8	651.6	791.5	1600.6	5453.4	2046.7	865.9	642.9	568.5	555.4
75°	472.3	481.1	498.5	572.9	739.1	1460.6	830.9	599.1	511.7	459.2	441.7
77.5°	363.0	363.0	402.3	437.3	489.8	682.2	551.0	476.7	415.5	363.0	349.9
80°	262.4	266.8	314.9	341.1	332.4	450.4	398.0	393.6	341.1	284.3	262.4
82.5°	153.1	166.2	227.4	244.9	236.2	266.8	288.6	306.1	266.8	196.8	179.3
85°	87.5	91.8	131.2	135.6	135.6	126.8	166.2	183.7	179.3	122.4	109.3
87.5°	26.2	26.2	35.0	35.0	39.4	43.7	65.6	78.7	87.5	61.2	56.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478837
 CATALOG NUMBER: IFLD-S-SA6D-727-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0
2.5°	4535.0	4469.4	4473.8	4491.3	4434.4	4456.3	4521.9	4473.8	4460.7	4434.4	4421.3
5°	4513.1	4583.1	4556.9	4565.6	4552.5	4491.3	4482.5	4521.9	4543.7	4504.4	4583.1
7.5°	4666.2	4635.6	4600.6	4613.7	4583.1	4635.6	4670.6	4591.9	4631.2	4609.3	4565.6
10°	4753.7	4696.8	4723.0	4714.3	4692.4	4744.9	4709.9	4701.2	4666.2	4618.1	4688.1
12.5°	4784.3	4849.9	4893.6	4819.3	4832.4	4806.1	4784.3	4784.3	4744.9	4731.8	4744.9
15°	4919.8	4976.7	4959.2	5016.1	4941.7	4967.9	4994.2	4928.6	4963.6	4867.4	4941.7
17.5°	5169.1	5121.0	5182.2	5107.9	5134.1	5186.6	5103.5	5103.5	5129.8	5077.3	5011.7
20°	5326.5	5304.7	5282.8	5287.2	5243.5	5291.6	5265.3	5252.2	5212.8	5230.3	5265.3
22.5°	5475.2	5444.6	5453.4	5466.5	5497.1	5475.2	5462.1	5475.2	5379.0	5466.5	5344.0
25°	5658.9	5742.0	5715.8	5772.6	5685.1	5742.0	5737.6	5654.5	5707.0	5672.0	5645.8
27.5°	5965.0	5921.3	5960.7	5890.7	5951.9	5956.3	5903.8	6043.8	5982.5	5973.8	5956.3
30°	6358.6	6328.0	6301.8	6262.4	6310.5	6271.2	6314.9	6328.0	6271.2	6227.4	6144.3
32.5°	6581.7	6664.7	6695.4	6599.1	6603.5	6625.4	6586.0	6546.7	6581.7	6594.8	6581.7
35°	6896.5	6975.2	6992.7	6918.4	6879.0	6988.4	6909.6	7040.8	6927.1	6931.5	6813.4
37.5°	7263.9	7285.7	7434.4	7351.3	7316.3	7263.9	7408.2	7390.7	7416.9	7207.0	7312.0
40°	7679.3	7758.0	7841.1	7631.2	7626.8	7675.0	7666.2	7766.8	7718.7	7688.1	7613.7
42.5°	8134.1	8300.3	8313.4	8173.5	8086.0	8077.3	8121.0	8344.0	8348.4	8147.3	8059.8
45°	8737.6	8921.3	8873.2	8602.1	8505.9	8492.7	8707.0	8803.2	8886.3	8807.6	8733.3
47.5°	9489.8	9612.3	9577.3	9328.0	9017.5	9105.0	9314.9	9616.6	9529.2	9424.2	9336.8
50°	10294.5	10438.8	10364.5	10115.2	9817.8	9817.8	10075.8	10460.7	10434.4	10228.9	10150.2
52.5°	11186.6	11396.5	11567.1	11212.9	10963.6	11002.9	11409.7	11549.6	11484.0	11339.7	11274.1
55°	11851.3	12253.7	12603.5	12621.0	12634.1	12629.8	12734.7	12874.7	12406.7	12175.0	11938.8
57.5°	11689.5	12450.5	13648.7	14462.1	14702.7	14829.5	14794.5	14147.3	13040.9	12279.9	12358.6
60°	10535.0	11777.0	13710.0	16320.7	18070.0	17895.1	17256.6	14698.3	12691.0	11405.3	11243.5
62.5°	8405.3	9900.9	12682.3	16845.5	21664.8	21612.3	18271.2	13425.7	10574.4	8947.5	8847.0
64°	6332.4	7906.7	11313.4	16710.0	22924.3	22976.7	18013.2	11860.1	8274.1	6332.4	6179.3
65°	4845.5	6306.1	9970.9	16430.1	22653.1	22683.7	17296.0	10242.0	6288.6	4495.6	4329.5
67.5°	1928.6	2685.1	5409.6	12459.2	19452.0	19368.9	12341.1	4954.8	2405.3	1565.6	1535.0
70°	822.2	1023.3	1898.0	5903.8	13023.4	12782.8	5313.4	1609.3	892.1	747.8	743.4
72.5°	564.1	625.4	813.4	1823.6	5414.0	5287.2	1513.1	747.8	607.9	559.8	559.8
75°	454.8	498.5	590.4	765.3	1434.4	1381.9	712.8	551.0	485.4	450.4	446.1
77.5°	354.2	398.0	463.6	529.2	656.0	651.6	476.7	415.5	376.1	349.9	341.1
80°	279.9	323.6	367.3	376.1	428.6	419.8	323.6	328.0	306.1	253.6	249.3
82.5°	192.4	262.4	293.0	266.8	253.6	253.6	231.8	231.8	214.3	157.4	144.3
85°	118.1	174.9	183.7	157.4	118.1	118.1	126.8	122.4	113.7	83.1	78.7
87.5°	61.2	83.1	74.3	61.2	39.4	39.4	35.0	26.2	26.2	21.9	21.9
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)