

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: P478809

Luminaire Tested: **IFLD-L-SA7E-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478809
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

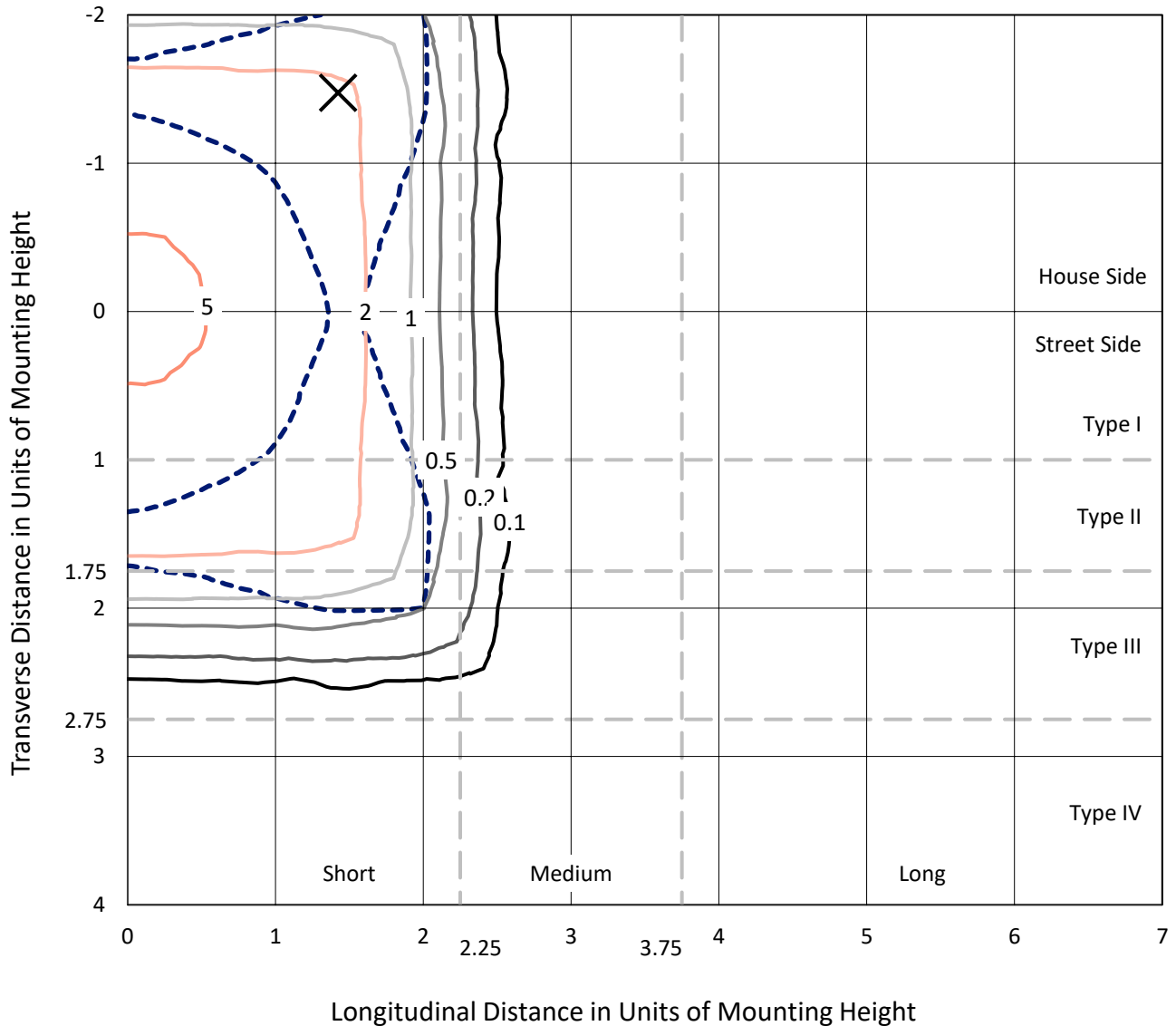
Lumens per Lamp: N/A
Luminaire Lumens: 41472.9 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 532.7
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

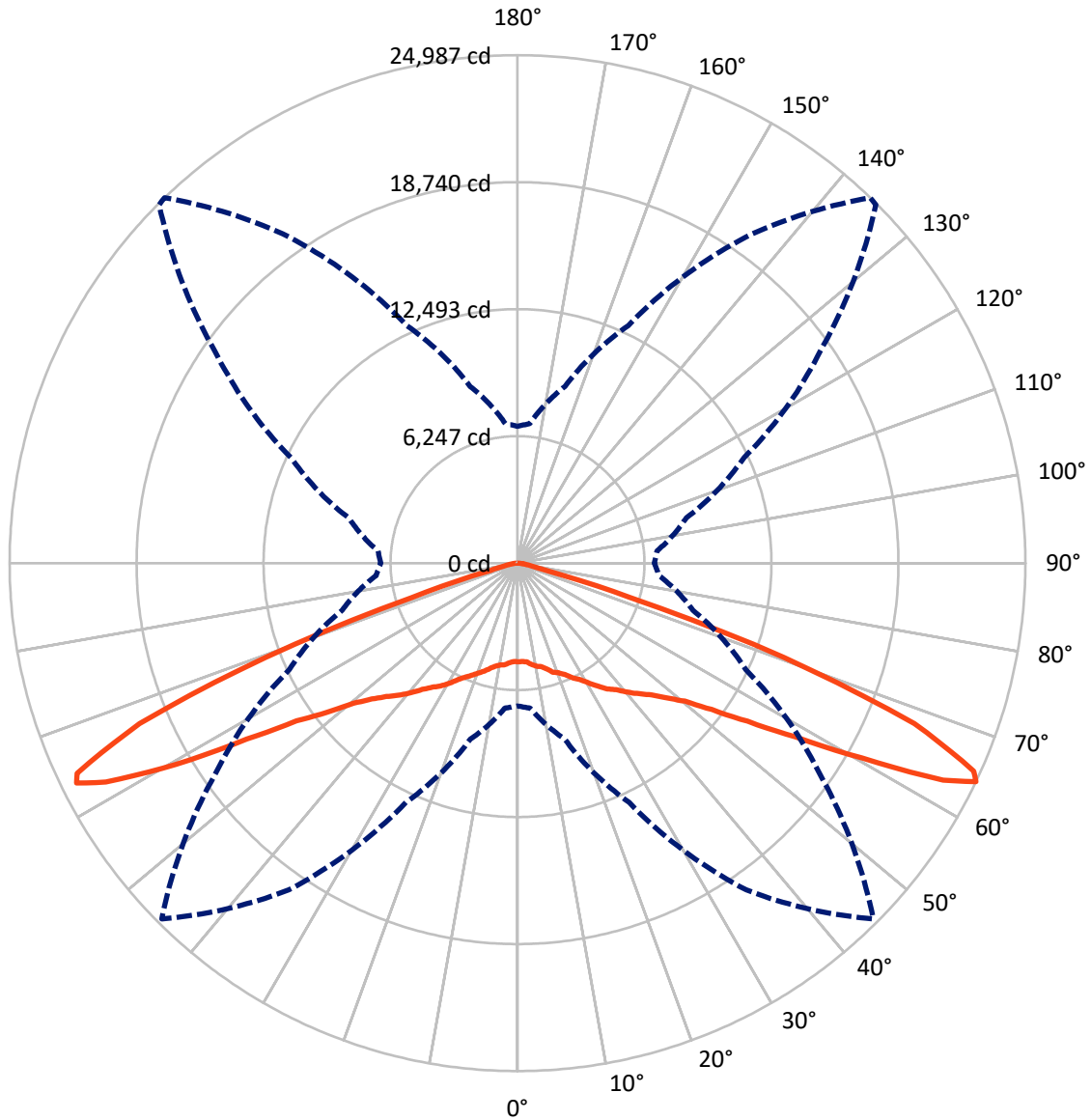
× Max cd
 - - - 1/2 Max cd



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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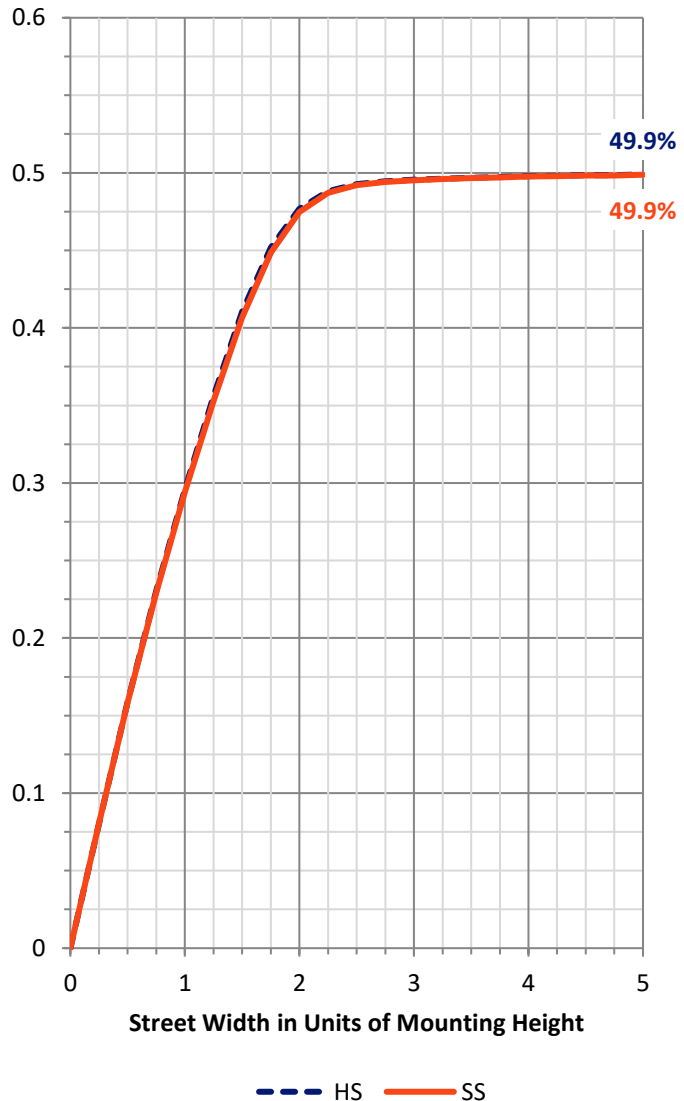
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20756.2	0.0	20756.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20716.7	0.0	20716.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	41472.9	0.0	41472.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.1	1.2
10°-20°	1537.7	3.7
20°-30°	2890.0	7.0
30°-40°	4766.1	11.5
40°-50°	7453.8	18.0
50°-60°	12043.5	29.0
60°-70°	10844.4	26.1
70°-80°	1284.6	3.1
80°-90°	175.8	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°	41472.9	100.0
0°-180°	41472.9	100.0

Coefficient of Utilization



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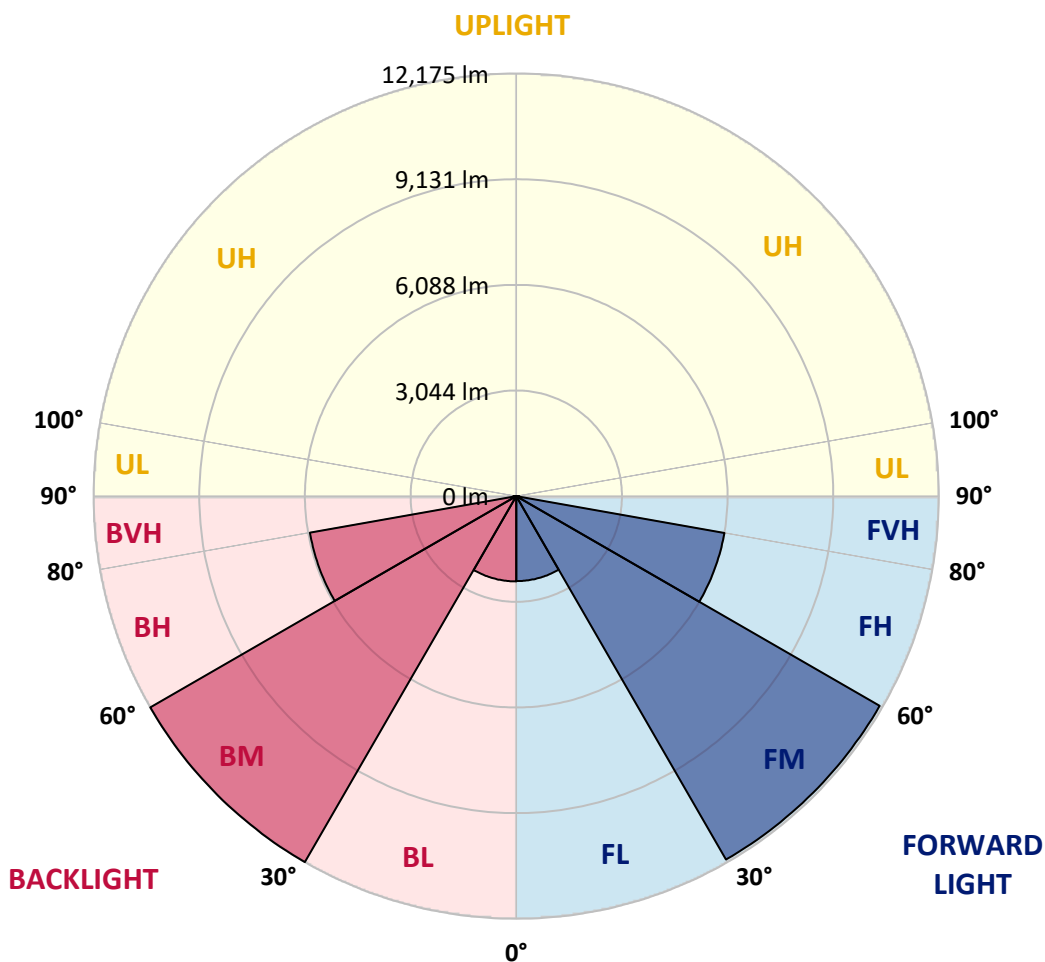
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2447.7	5.9			
FM (30°-60°)	12088.1	29.1			
FH (60°-80°)	6090.8	14.7			G3/7500
FVH (80°-90°)	90.2	0.2			G1/100
BL (0°-30°)	2457.1	5.9	B3/2500		
BM (30°-60°)	12175.3	29.4	B5		
BH (60°-80°)	6038.2	14.6	B5		G3/7500
BVH (80°-90°)	85.6	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°	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6
2.5°	4798.6	4808.1	4893.7	4860.4	4888.9	4836.6	4874.6	4955.5	4860.4	4931.7	4955.5
5°	4850.9	4865.1	4865.1	4898.4	4917.4	4907.9	4931.7	4898.4	4988.8	4950.7	5007.8
7.5°	5041.1	5017.3	4979.3	5007.8	5012.6	5036.3	5060.1	5102.9	5088.7	5055.4	5112.4
10°	5074.4	5055.4	5112.4	5117.2	5093.4	5074.4	5098.2	5098.2	5141.0	5150.5	5150.5
12.5°	5131.5	5150.5	5145.7	5183.8	5188.5	5174.3	5212.3	5283.6	5264.6	5278.9	5245.6
15°	5350.2	5326.4	5321.7	5359.7	5421.6	5331.2	5397.8	5393.0	5374.0	5402.5	5326.4
17.5°	5540.5	5464.4	5497.7	5559.5	5535.7	5554.7	5640.3	5564.2	5583.3	5550.0	5526.2
20°	5706.9	5645.1	5649.8	5673.6	5673.6	5730.7	5764.0	5735.4	5716.4	5711.7	5721.2
22.5°	5892.4	5821.0	5825.8	5925.7	5959.0	5939.9	5916.2	5963.7	5973.2	5935.2	5978.0
25°	6030.3	6106.4	6130.2	6177.7	6106.4	6158.7	6139.7	6230.0	6287.1	6211.0	6263.3
27.5°	6391.7	6358.4	6420.3	6415.5	6472.6	6420.3	6453.6	6482.1	6505.9	6510.6	6486.8
30°	6715.1	6729.4	6667.6	6834.0	6700.9	6786.5	6843.5	6857.8	6886.3	6886.3	6815.0
32.5°	7057.5	7029.0	7128.9	7090.8	7067.1	7133.6	7071.8	7266.8	7152.7	7219.2	7138.4
35°	7442.8	7442.8	7480.8	7585.4	7442.8	7400.0	7514.1	7594.9	7594.9	7476.0	7504.6
37.5°	7875.5	7837.5	7885.0	8018.2	7908.8	7766.1	7975.4	8008.7	7984.9	7951.6	7894.6
40°	8179.9	8170.4	8265.5	8441.5	8284.5	8256.0	8294.0	8384.4	8412.9	8446.2	8370.1
42.5°	8693.5	8736.3	9012.2	8969.4	8840.9	8741.1	8731.6	9069.2	8988.4	8902.8	8860.0
45°	9454.4	9416.4	9559.1	9563.8	9397.4	9178.6	9226.2	9535.3	9673.2	9483.0	9554.3
47.5°	10058.4	10077.4	10177.3	10381.8	9996.6	9768.3	9944.3	10443.6	10400.8	10329.5	10396.1
50°	10866.9	10952.5	11266.4	11195.0	10852.6	10572.0	10957.3	11428.1	11480.4	11218.8	11171.3
52.5°	11984.5	12117.7	12288.9	12345.9	12017.8	11917.9	11941.7	12526.7	12398.3	12146.2	11984.5
55°	12964.2	13026.0	13339.9	13810.7	13786.9	13306.6	13582.4	13801.2	13278.1	12759.7	12802.5
57.5°	13382.7	13411.2	14286.3	15227.9	15789.1	15898.5	15584.6	14847.5	13601.5	12602.7	12540.9
60°	12341.2	12612.3	13668.0	15793.9	18357.2	19622.2	17534.5	14966.4	12845.3	11632.6	11542.2
62.5°	9863.4	9877.7	11447.1	14671.5	19955.1	23269.9	18281.1	13848.8	10828.9	9454.4	9093.0
64°	7024.2	7157.4	8959.8	12988.0	19622.2	24753.7	18190.8	12388.7	8926.6	6976.7	6724.6
65°	5041.1	5226.6	6967.2	11275.9	18842.3	24577.7	17919.7	11133.2	7219.2	5326.4	5069.6
67.5°	1854.7	1930.8	2734.6	5640.3	13530.1	20944.3	14200.7	6120.7	3172.1	2259.0	2030.7
70°	860.8	865.5	1013.0	1864.3	5916.2	14005.7	6776.9	2297.0	1193.7	946.4	879.8
72.5°	632.5	646.8	708.6	860.8	1740.6	5930.4	2225.7	941.6	699.1	618.2	604.0
75°	513.6	523.1	542.2	623.0	803.7	1588.4	903.6	651.5	556.4	499.4	480.3
77.5°	394.7	394.7	437.5	475.6	532.6	741.9	599.2	518.4	451.8	394.7	380.5
80°	285.3	290.1	342.4	370.9	361.4	489.8	432.8	428.0	370.9	309.1	285.3
82.5°	166.5	180.7	247.3	266.3	256.8	290.1	313.9	332.9	290.1	214.0	195.0
85°	95.1	99.9	142.7	147.4	147.4	137.9	180.7	199.7	195.0	133.2	118.9
87.5°	28.5	28.5	38.0	38.0	42.8	47.6	71.3	85.6	95.1	66.6	61.8
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°	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6	4855.6
2.5°	4931.7	4860.4	4865.1	4884.2	4822.3	4846.1	4917.4	4865.1	4850.9	4822.3	4808.1
5°	4907.9	4984.0	4955.5	4965.0	4950.7	4884.2	4874.6	4917.4	4941.2	4898.4	4984.0
7.5°	5074.4	5041.1	5003.1	5017.3	4984.0	5041.1	5079.1	4993.5	5036.3	5012.6	4965.0
10°	5169.5	5107.7	5136.2	5126.7	5102.9	5160.0	5121.9	5112.4	5074.4	5022.1	5098.2
12.5°	5202.8	5274.1	5321.7	5240.8	5255.1	5226.6	5202.8	5202.8	5160.0	5145.7	5160.0
15°	5350.2	5412.0	5393.0	5454.9	5374.0	5402.5	5431.1	5359.7	5397.8	5293.2	5374.0
17.5°	5621.3	5569.0	5635.6	5554.7	5583.3	5640.3	5550.0	5550.0	5578.5	5521.4	5450.1
20°	5792.5	5768.7	5745.0	5749.7	5702.1	5754.5	5725.9	5711.7	5668.9	5687.9	5725.9
22.5°	5954.2	5920.9	5930.4	5944.7	5978.0	5954.2	5939.9	5954.2	5849.6	5944.7	5811.5
25°	6153.9	6244.3	6215.8	6277.6	6182.5	6244.3	6239.5	6149.2	6206.3	6168.2	6139.7
27.5°	6486.8	6439.3	6482.1	6406.0	6472.6	6477.3	6420.3	6572.5	6505.9	6496.4	6477.3
30°	6914.9	6881.6	6853.0	6810.2	6862.6	6819.8	6867.3	6881.6	6819.8	6772.2	6681.8
32.5°	7157.4	7247.8	7281.1	7176.4	7181.2	7205.0	7162.2	7119.4	7157.4	7171.7	7157.4
35°	7499.8	7585.4	7604.5	7523.6	7480.8	7599.7	7514.1	7656.8	7533.1	7537.9	7409.5
37.5°	7899.3	7923.1	8084.8	7994.4	7956.4	7899.3	8056.2	8037.2	8065.8	7837.5	7951.6
40°	8351.1	8436.7	8527.1	8298.8	8294.0	8346.3	8336.8	8446.2	8393.9	8360.6	8279.8
42.5°	8845.7	9026.4	9040.7	8888.5	8793.4	8783.9	8831.4	9074.0	9078.7	8860.0	8764.9
45°	9502.0	9701.7	9649.4	9354.6	9249.9	9235.7	9468.7	9573.3	9663.7	9578.1	9497.2
47.5°	10320.0	10453.1	10415.1	10144.0	9806.4	9901.5	10129.8	10457.9	10362.8	10248.7	10153.5
50°	11195.0	11352.0	11271.1	11000.1	10676.7	10676.7	10957.3	11375.8	11347.2	11123.7	11038.1
52.5°	12165.2	12393.5	12579.0	12193.8	11922.7	11965.5	12407.8	12559.9	12488.6	12331.7	12260.3
55°	12888.1	13325.6	13706.1	13725.1	13739.4	13734.6	13848.8	14000.9	13492.1	13240.0	12983.2
57.5°	12712.1	13539.6	14842.7	15727.3	15988.8	16126.8	16088.7	15384.9	14181.7	13354.2	13439.8
60°	11456.6	12807.2	14909.3	17748.5	19650.8	19460.5	18766.2	15984.1	13801.2	12403.0	12227.0
62.5°	9140.6	10767.0	13791.7	18319.2	23560.0	23502.9	19869.5	14600.2	11499.4	9730.3	9620.9
64°	6886.3	8598.4	12303.1	18171.7	24929.7	24986.7	19589.0	12897.6	8997.9	6886.3	6719.9
65°	5269.4	6857.8	10843.1	17867.4	24634.8	24668.1	18809.0	11138.0	6838.8	4888.9	4708.2
67.5°	2097.3	2920.0	5882.9	13549.1	21153.6	21063.2	13420.7	5388.3	2615.7	1702.6	1669.3
70°	894.1	1112.8	2064.0	6420.3	14162.6	13901.1	5778.2	1750.1	970.2	813.2	808.5
72.5°	613.5	680.1	884.6	1983.1	5887.6	5749.7	1645.5	813.2	661.0	608.7	608.7
75°	494.6	542.2	642.0	832.3	1559.9	1502.8	775.2	599.2	527.9	489.8	485.1
77.5°	385.2	432.8	504.1	575.4	713.4	708.6	518.4	451.8	409.0	380.5	370.9
80°	304.4	351.9	399.5	409.0	466.1	456.6	351.9	356.7	332.9	275.8	271.1
82.5°	209.3	285.3	318.6	290.1	275.8	275.8	252.1	252.1	233.0	171.2	156.9
85°	128.4	190.2	199.7	171.2	128.4	128.4	137.9	133.2	123.6	90.4	85.6
87.5°	66.6	90.4	80.8	66.6	42.8	42.8	38.0	28.5	28.5	23.8	23.8
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)