

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: P478798

Luminaire Tested: **IFLD-S-SA6D-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478798
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

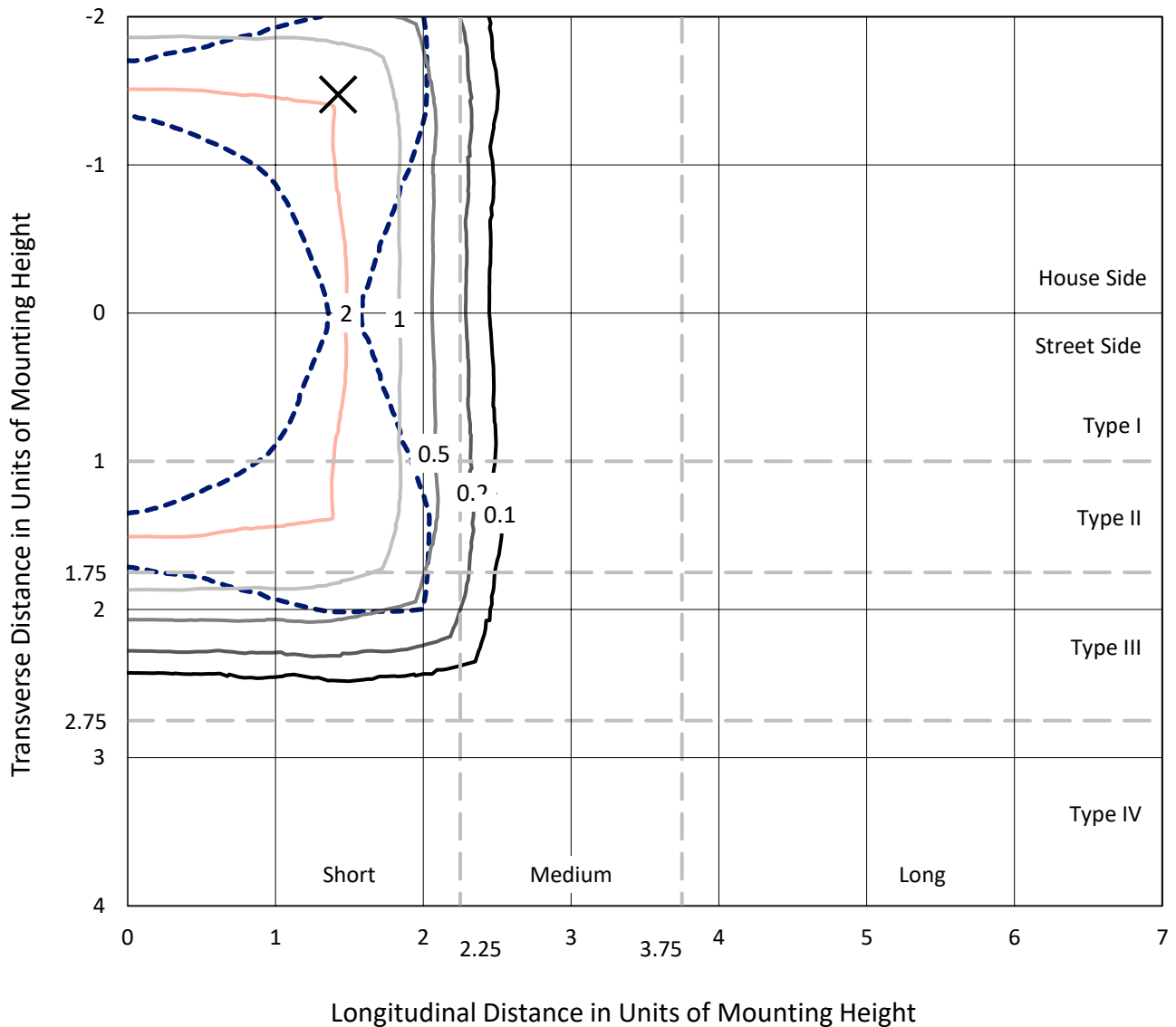
Lumens per Lamp: N/A
Luminaire Lumens: 33590.2 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

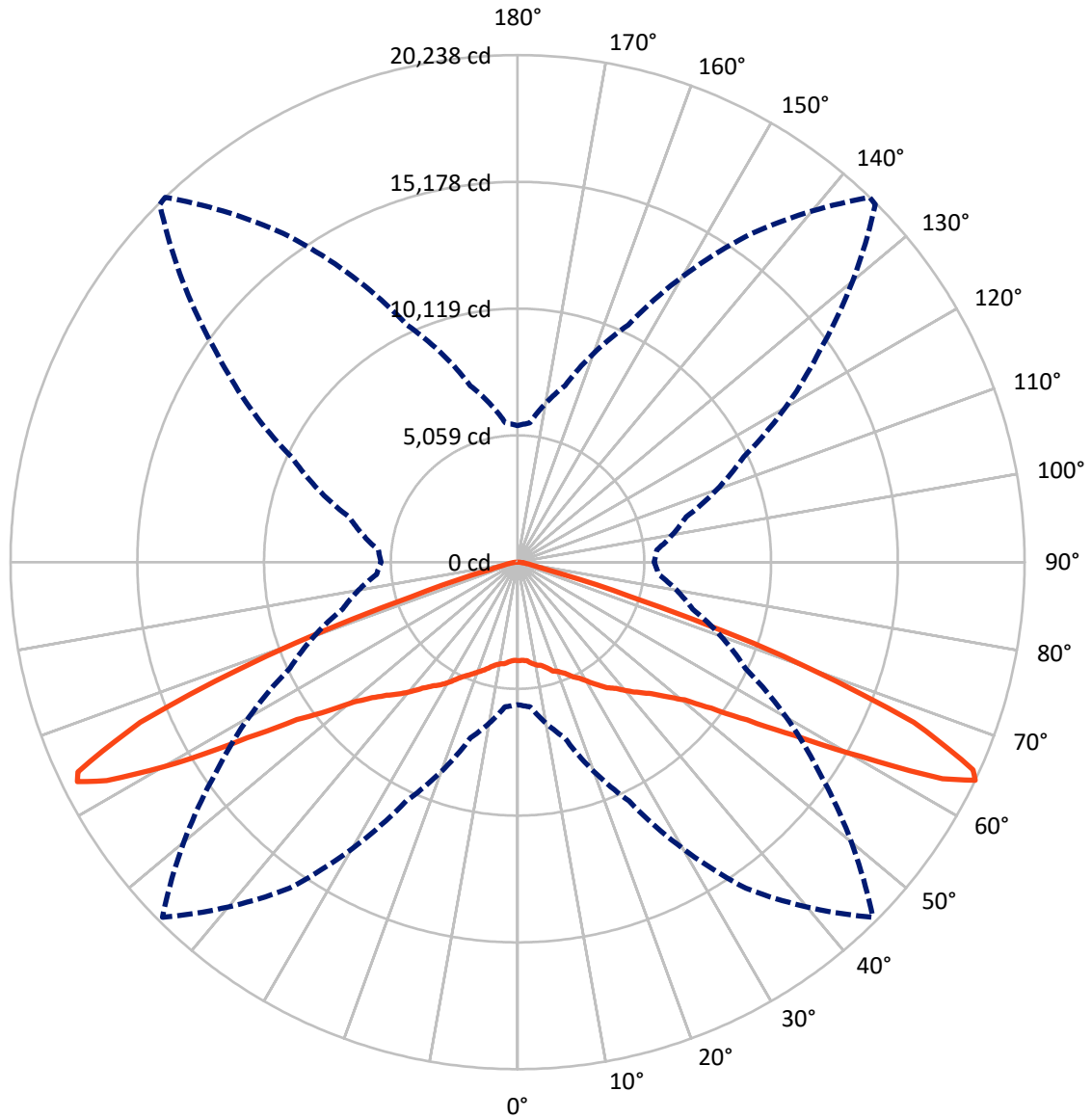
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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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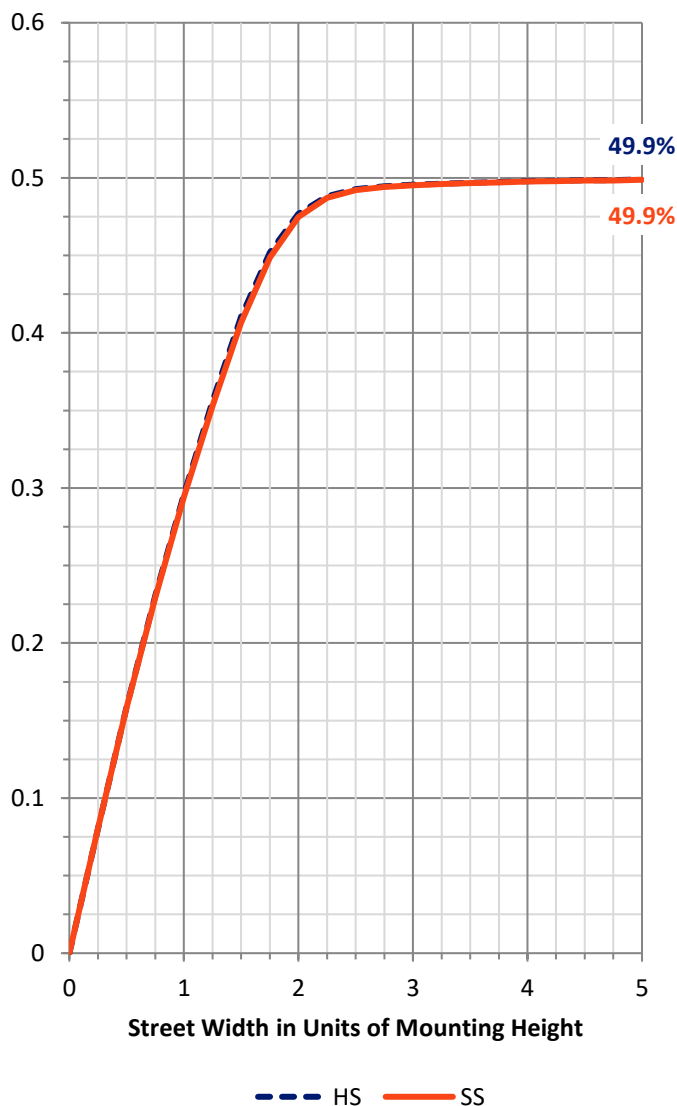
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16811.1	0.0	16811.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16779.1	0.0	16779.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	33590.2	0.0	33590.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.4	1.2
10°-20°	1245.4	3.7
20°-30°	2340.7	7.0
30°-40°	3860.2	11.5
40°-50°	6037.1	18.0
50°-60°	9754.4	29.0
60°-70°	8783.2	26.1
70°-80°	1040.4	3.1
80°-90°	142.4	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°	33590.2	100.0
0°-180°	33590.2	100.0

Coefficient of Utilization



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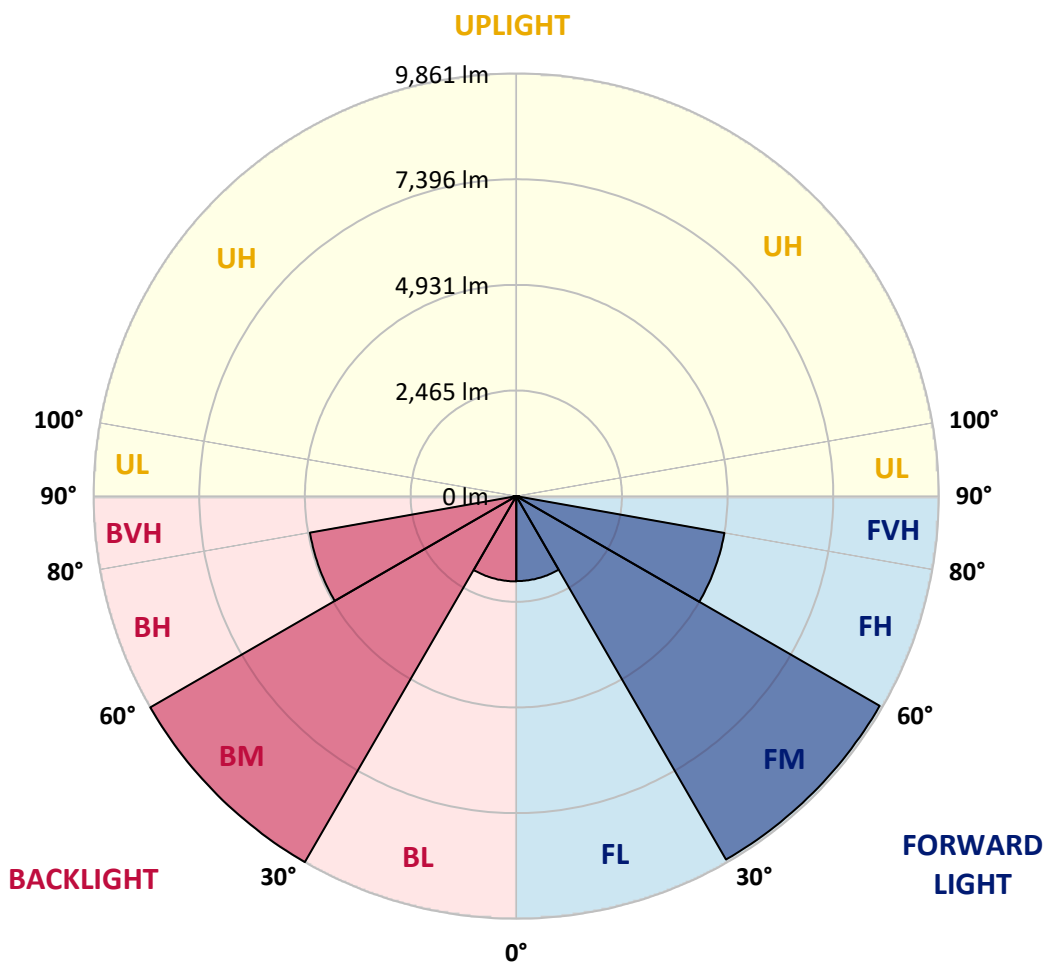
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1982.4	5.9			
FM (30°-60°)	9790.5	29.1			
FH (60°-80°)	4933.1	14.7			G2/5000
FVH (80°-90°)	73.1	0.2			G1/100
BL (0°-30°)	1990.1	5.9	B3/2500		
BM (30°-60°)	9861.2	29.4	B5		
BH (60°-80°)	4890.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	69.4	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7
2.5°	3886.5	3894.2	3963.5	3936.6	3959.7	3917.3	3948.1	4013.6	3936.6	3994.4	4013.6
5°	3928.9	3940.4	3940.4	3967.4	3982.8	3975.1	3994.4	3967.4	4040.6	4009.8	4056.0
7.5°	4082.9	4063.7	4032.9	4056.0	4059.8	4079.1	4098.4	4133.0	4121.5	4094.5	4140.7
10°	4109.9	4094.5	4140.7	4144.6	4125.3	4109.9	4129.2	4129.2	4163.8	4171.5	4171.5
12.5°	4156.1	4171.5	4167.7	4198.5	4202.4	4190.8	4221.6	4279.4	4264.0	4275.5	4248.6
15°	4333.3	4314.1	4310.2	4341.0	4391.1	4317.9	4371.8	4368.0	4352.6	4375.7	4314.1
17.5°	4487.4	4425.8	4452.7	4502.8	4483.5	4498.9	4568.3	4506.7	4522.1	4495.1	4475.8
20°	4622.2	4572.1	4576.0	4595.2	4595.2	4641.5	4668.4	4645.3	4629.9	4626.1	4633.8
22.5°	4772.4	4714.7	4718.5	4799.4	4826.4	4810.9	4791.7	4830.2	4837.9	4807.1	4841.8
25°	4884.1	4945.8	4965.0	5003.5	4945.8	4988.1	4972.7	5045.9	5092.1	5030.5	5072.9
27.5°	5176.9	5149.9	5200.0	5196.1	5242.4	5200.0	5226.9	5250.1	5269.3	5273.2	5253.9
30°	5438.8	5450.4	5400.3	5535.1	5427.2	5496.6	5542.8	5554.4	5577.5	5577.5	5519.7
32.5°	5716.1	5693.0	5773.9	5743.1	5723.8	5777.8	5727.7	5885.6	5793.2	5847.1	5781.6
35°	6028.1	6028.1	6058.9	6143.7	6028.1	5993.5	6085.9	6151.4	6151.4	6055.1	6078.2
37.5°	6378.6	6347.8	6386.3	6494.2	6405.6	6290.1	6459.5	6486.5	6467.2	6440.3	6394.1
40°	6625.2	6617.5	6694.5	6837.0	6709.9	6686.8	6717.6	6790.8	6813.9	6840.9	6779.2
42.5°	7041.2	7075.8	7299.2	7264.6	7160.6	7079.7	7072.0	7345.5	7280.0	7210.6	7176.0
45°	7657.5	7626.6	7742.2	7746.0	7611.2	7434.0	7472.6	7722.9	7834.6	7680.6	7738.3
47.5°	8146.6	8162.0	8242.9	8408.6	8096.6	7911.7	8054.2	8458.6	8424.0	8366.2	8420.1
50°	8801.5	8870.8	9125.0	9067.2	8789.9	8562.6	8874.6	9256.0	9298.3	9086.5	9048.0
52.5°	9706.6	9814.5	9953.2	9999.4	9733.6	9652.7	9672.0	10145.7	10041.7	9837.6	9706.6
55°	10500.1	10550.2	10804.4	11185.7	11166.5	10777.4	11000.9	11178.0	10754.3	10334.5	10369.1
57.5°	10839.1	10862.2	11570.9	12333.6	12788.1	12876.7	12622.5	12025.4	11016.3	10207.4	10157.3
60°	9995.5	10215.1	11070.2	12792.0	14868.1	15892.7	14201.7	12121.7	10403.8	9421.6	9348.4
62.5°	7988.7	8000.3	9271.4	11882.9	16162.3	18847.0	14806.5	11216.6	8770.6	7657.5	7364.7
64°	5689.2	5797.0	7256.9	10519.4	15892.7	20048.8	14733.3	10034.0	7229.9	5650.6	5446.5
65°	4082.9	4233.2	5642.9	9132.7	15261.0	19906.3	14513.7	9017.2	5847.1	4314.1	4106.1
67.5°	1502.2	1563.8	2214.8	4568.3	10958.5	16963.5	11501.6	4957.3	2569.2	1829.6	1644.7
70°	697.2	701.0	820.4	1509.9	4791.7	11343.7	5488.9	1860.4	966.8	766.5	712.6
72.5°	512.3	523.9	573.9	697.2	1409.8	4803.2	1802.7	762.7	566.2	500.7	489.2
75°	416.0	423.7	439.1	504.6	651.0	1286.5	731.8	527.7	450.7	404.4	389.0
77.5°	319.7	319.7	354.4	385.2	431.4	600.9	485.3	419.9	365.9	319.7	308.1
80°	231.1	235.0	277.3	300.4	292.7	396.7	350.5	346.7	300.4	250.4	231.1
82.5°	134.8	146.4	200.3	215.7	208.0	235.0	254.2	269.6	235.0	173.3	157.9
85°	77.0	80.9	115.6	119.4	119.4	111.7	146.4	161.8	157.9	107.9	96.3
87.5°	23.1	23.1	30.8	30.8	34.7	38.5	57.8	69.3	77.0	53.9	50.1
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°	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7	3932.7
2.5°	3994.4	3936.6	3940.4	3955.8	3905.8	3925.0	3982.8	3940.4	3928.9	3905.8	3894.2
5°	3975.1	4036.7	4013.6	4021.3	4009.8	3955.8	3948.1	3982.8	4002.1	3967.4	4036.7
7.5°	4109.9	4082.9	4052.1	4063.7	4036.7	4082.9	4113.8	4044.4	4079.1	4059.8	4021.3
10°	4186.9	4136.9	4160.0	4152.3	4133.0	4179.2	4148.4	4140.7	4109.9	4067.5	4129.2
12.5°	4213.9	4271.7	4310.2	4244.7	4256.3	4233.2	4213.9	4213.9	4179.2	4167.7	4179.2
15°	4333.3	4383.4	4368.0	4418.1	4352.6	4375.7	4398.8	4341.0	4371.8	4287.1	4352.6
17.5°	4552.9	4510.5	4564.4	4498.9	4522.1	4568.3	4495.1	4495.1	4518.2	4472.0	4414.2
20°	4691.5	4672.3	4653.0	4656.9	4618.4	4660.7	4637.6	4626.1	4591.4	4606.8	4637.6
22.5°	4822.5	4795.5	4803.2	4814.8	4841.8	4822.5	4810.9	4822.5	4737.8	4814.8	4706.9
25°	4984.3	5057.5	5034.4	5084.4	5007.4	5057.5	5053.6	4980.4	5026.6	4995.8	4972.7
27.5°	5253.9	5215.4	5250.1	5188.4	5242.4	5246.2	5200.0	5323.2	5269.3	5261.6	5246.2
30°	5600.6	5573.6	5550.5	5515.8	5558.2	5523.5	5562.1	5573.6	5523.5	5485.0	5411.8
32.5°	5797.0	5870.2	5897.2	5812.4	5816.3	5835.5	5800.9	5766.2	5797.0	5808.6	5797.0
35°	6074.3	6143.7	6159.1	6093.6	6058.9	6155.2	6085.9	6201.5	6101.3	6105.2	6001.2
37.5°	6397.9	6417.2	6548.1	6474.9	6444.1	6397.9	6525.0	6509.6	6532.7	6347.8	6440.3
40°	6763.8	6833.2	6906.3	6721.5	6717.6	6760.0	6752.3	6840.9	6798.5	6771.5	6706.1
42.5°	7164.4	7310.8	7322.3	7199.1	7122.0	7114.3	7152.9	7349.3	7353.2	7176.0	7098.9
45°	7696.0	7857.8	7815.4	7576.6	7491.8	7480.3	7669.0	7753.8	7826.9	7757.6	7692.1
47.5°	8358.5	8466.3	8435.5	8216.0	7942.5	8019.5	8204.4	8470.2	8393.2	8300.7	8223.7
50°	9067.2	9194.3	9128.9	8909.3	8647.4	8647.4	8874.6	9213.6	9190.5	9009.5	8940.1
52.5°	9853.0	10037.9	10188.1	9876.1	9656.6	9691.2	10049.4	10172.7	10114.9	9987.8	9930.0
55°	10438.5	10792.9	11101.0	11116.4	11128.0	11124.1	11216.6	11339.8	10927.7	10723.5	10515.5
57.5°	10296.0	10966.2	12021.6	12738.0	12949.9	13061.6	13030.8	12460.7	11486.2	10816.0	10885.3
60°	9279.1	10373.0	12075.5	14375.1	15915.8	15761.7	15199.4	12946.0	11178.0	10045.6	9903.1
62.5°	7403.2	8720.6	11170.3	14837.3	19082.0	19035.8	16093.0	11825.1	9313.7	7880.9	7792.3
64°	5577.5	6964.1	9964.7	14717.9	20191.3	20237.6	15865.7	10446.2	7287.7	5577.5	5442.6
65°	4267.8	5554.4	8782.2	14471.4	19952.5	19979.5	15234.0	9021.0	5538.9	3959.7	3813.3
67.5°	1698.7	2365.0	4764.7	10973.9	17133.0	17059.8	10869.9	4364.1	2118.5	1379.0	1352.0
70°	724.1	901.3	1671.7	5200.0	11470.8	11258.9	4680.0	1417.5	785.8	658.7	654.8
72.5°	496.9	550.8	716.4	1606.2	4768.6	4656.9	1332.7	658.7	535.4	493.0	493.0
75°	400.6	439.1	520.0	674.1	1263.4	1217.2	627.8	485.3	427.6	396.7	392.9
77.5°	312.0	350.5	408.3	466.1	577.8	573.9	419.9	365.9	331.3	308.1	300.4
80°	246.5	285.0	323.6	331.3	377.5	369.8	285.0	288.9	269.6	223.4	219.6
82.5°	169.5	231.1	258.1	235.0	223.4	223.4	204.1	204.1	188.7	138.7	127.1
85°	104.0	154.1	161.8	138.7	104.0	104.0	111.7	107.9	100.1	73.2	69.3
87.5°	53.9	73.2	65.5	53.9	34.7	34.7	30.8	23.1	23.1	19.3	19.3
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)