

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: P478804

Luminaire Tested: **IFLD-M-SA4E-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478804
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

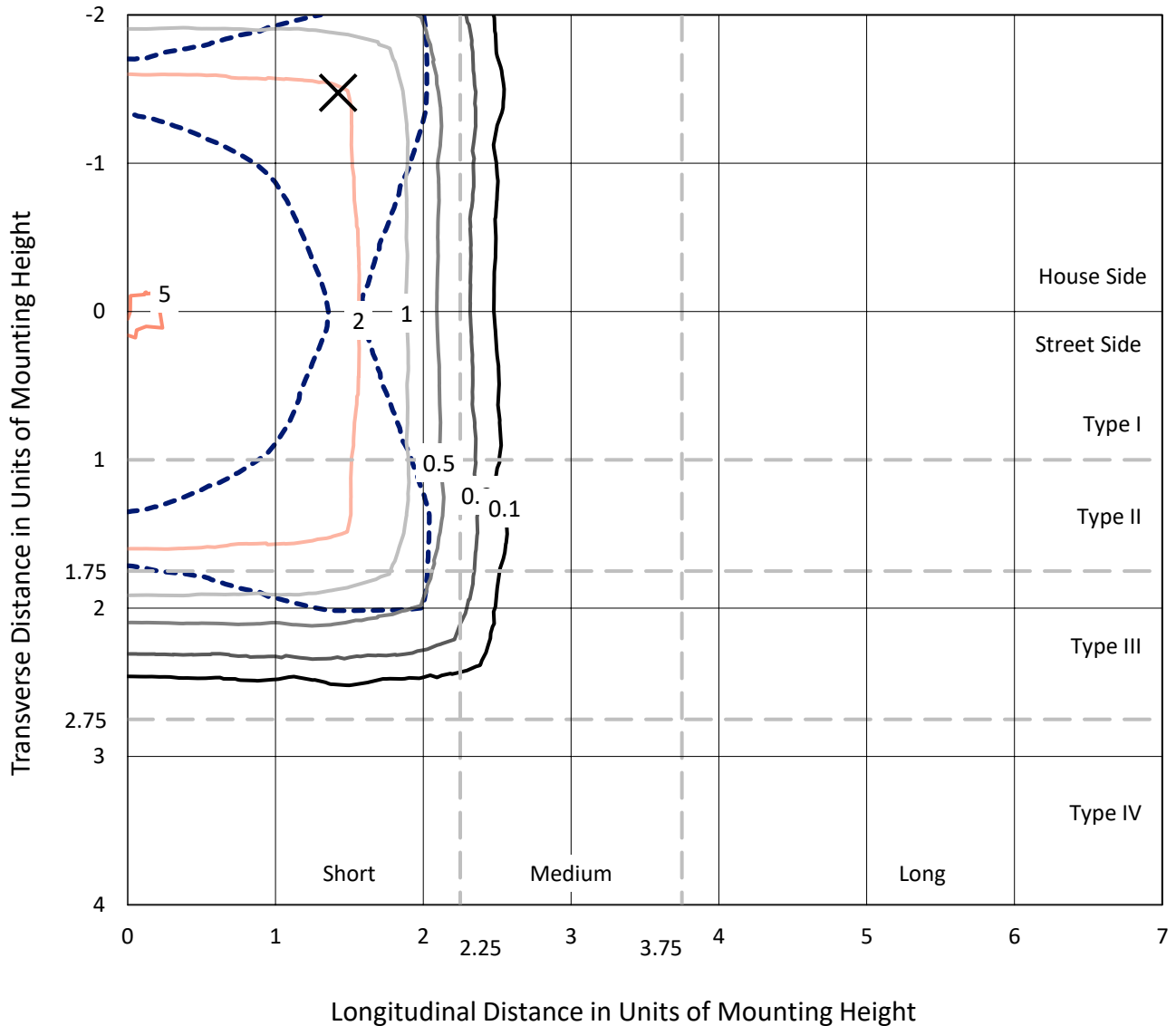
Lumens per Lamp: N/A
Luminaire Lumens: 26598.3 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

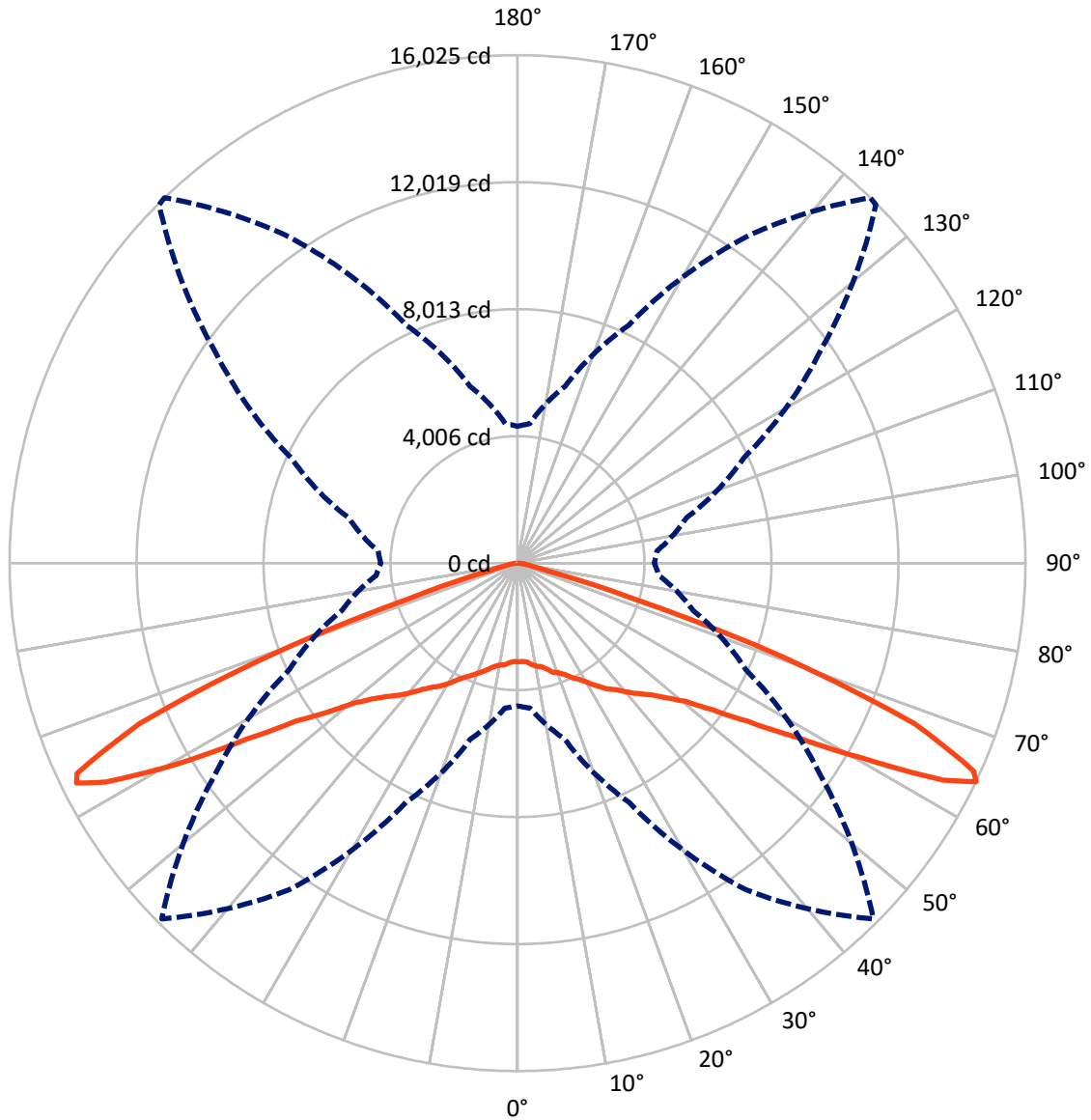
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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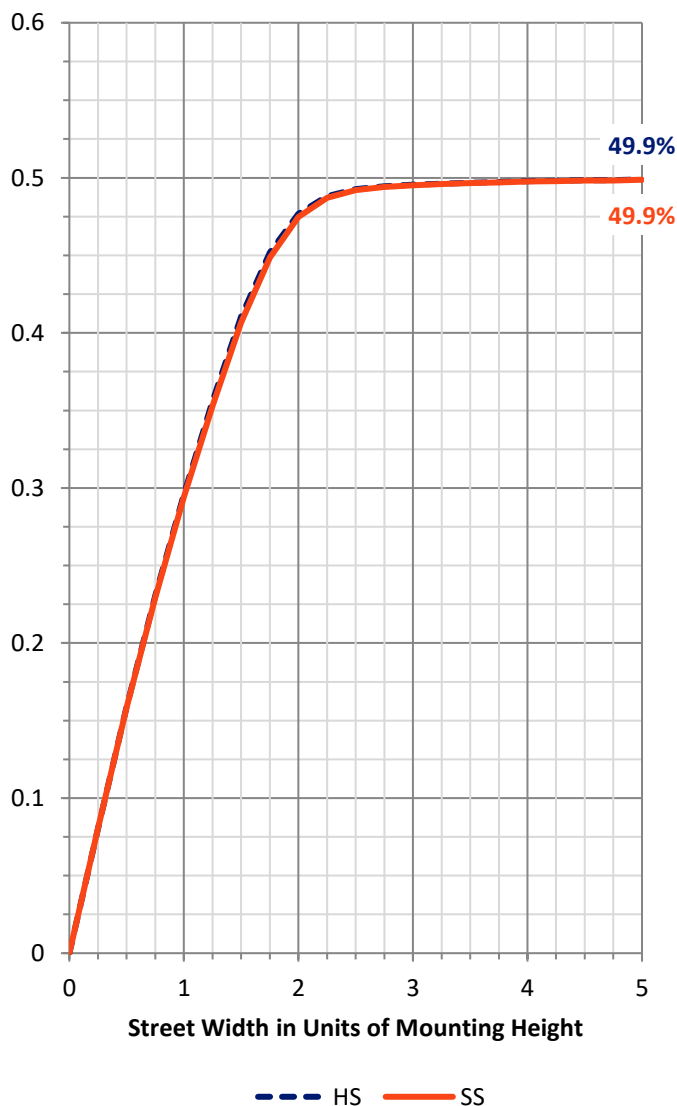
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13311.8	0.0	13311.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13286.5	0.0	13286.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26598.3	0.0	26598.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.0	1.2
10°-20°	986.2	3.7
20°-30°	1853.5	7.0
30°-40°	3056.7	11.5
40°-50°	4780.4	18.0
50°-60°	7724.0	29.0
60°-70°	6954.9	26.1
70°-80°	823.9	3.1
80°-90°	112.8	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°	26598.3	100.0
0°-180°	26598.3	100.0

Coefficient of Utilization



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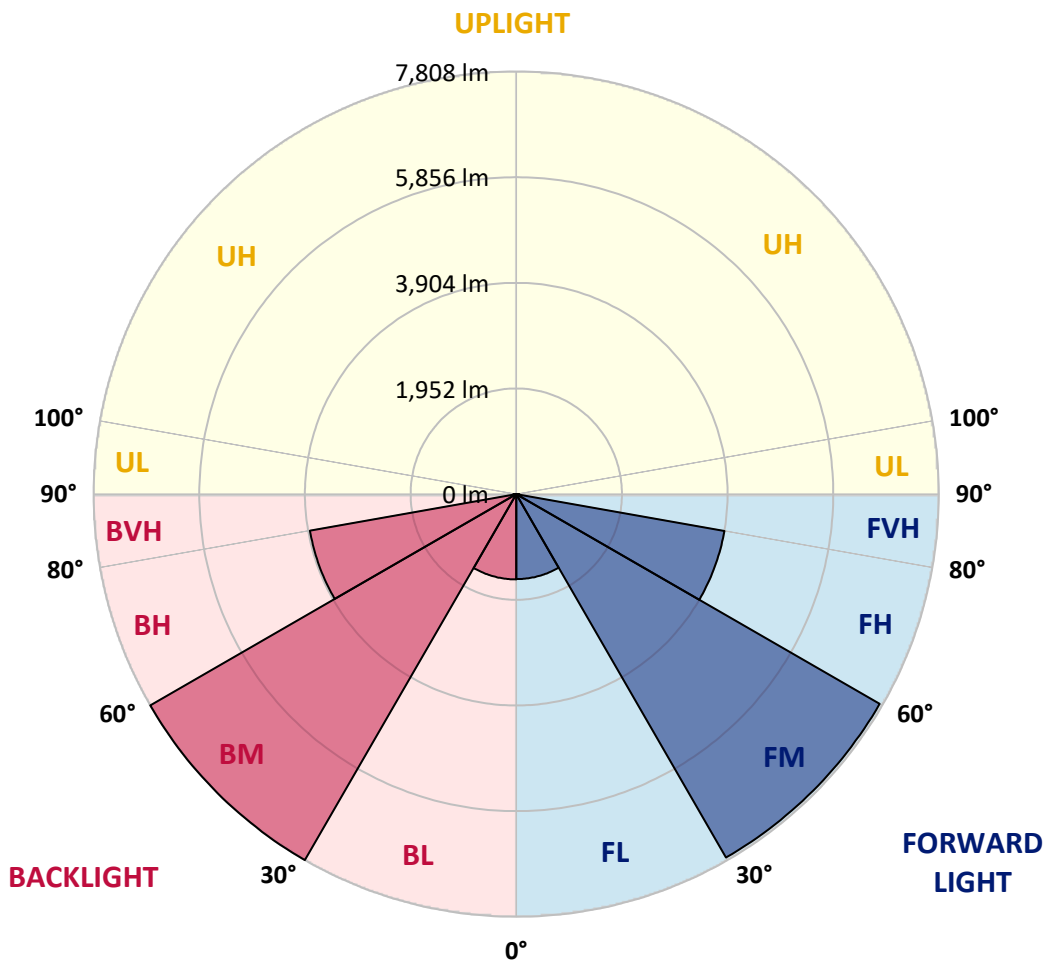
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.8	5.9			
FM (30°-60°)	7752.6	29.1			
FH (60°-80°)	3906.3	14.7			G2/5000
FVH (80°-90°)	57.9	0.2			G1/100
BL (0°-30°)	1575.8	5.9	B3/2500		
BM (30°-60°)	7808.5	29.4	B4/8500		
BH (60°-80°)	3872.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	54.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1
2.5°	3077.5	3083.6	3138.5	3117.2	3135.5	3101.9	3126.3	3178.2	3117.2	3162.9	3178.2
5°	3111.1	3120.2	3120.2	3141.6	3153.8	3147.7	3162.9	3141.6	3199.5	3175.1	3211.7
7.5°	3233.1	3217.8	3193.4	3211.7	3214.8	3230.0	3245.3	3272.7	3263.6	3242.2	3278.8
10°	3254.4	3242.2	3278.8	3281.9	3266.6	3254.4	3269.7	3269.7	3297.1	3303.2	3303.2
12.5°	3291.0	3303.2	3300.2	3324.6	3327.6	3318.5	3342.9	3388.6	3376.4	3385.6	3364.2
15°	3431.3	3416.1	3413.0	3437.4	3477.1	3419.1	3461.8	3458.8	3446.6	3464.9	3416.1
17.5°	3553.3	3504.5	3525.9	3565.5	3550.3	3562.5	3617.4	3568.6	3580.8	3559.4	3544.2
20°	3660.1	3620.4	3623.5	3638.7	3638.7	3675.3	3696.7	3678.4	3666.2	3663.1	3669.2
22.5°	3779.0	3733.3	3736.3	3800.4	3821.7	3809.5	3794.3	3824.8	3830.9	3806.5	3833.9
25°	3867.5	3916.3	3931.5	3962.0	3916.3	3949.8	3937.6	3995.6	4032.2	3983.4	4016.9
27.5°	4099.3	4077.9	4117.6	4114.5	4151.1	4117.6	4138.9	4157.2	4172.5	4175.5	4160.3
30°	4306.7	4315.8	4276.2	4382.9	4297.5	4352.4	4389.0	4398.2	4416.5	4416.5	4370.7
32.5°	4526.3	4508.0	4572.0	4547.6	4532.4	4575.1	4535.4	4660.5	4587.3	4630.0	4578.1
35°	4773.3	4773.3	4797.7	4864.8	4773.3	4745.9	4819.1	4870.9	4870.9	4794.7	4813.0
37.5°	5050.9	5026.5	5057.0	5142.4	5072.2	4980.7	5114.9	5136.3	5121.0	5099.7	5063.1
40°	5246.1	5240.0	5301.0	5413.9	5313.2	5294.9	5319.3	5377.3	5395.6	5416.9	5368.1
42.5°	5575.5	5603.0	5779.9	5752.4	5670.1	5606.0	5599.9	5816.5	5764.6	5709.7	5682.3
45°	6063.5	6039.1	6130.6	6133.7	6026.9	5886.6	5917.1	6115.4	6203.8	6081.8	6127.6
47.5°	6450.9	6463.1	6527.1	6658.3	6411.2	6264.8	6377.7	6697.9	6670.5	6624.7	6667.4
50°	6969.4	7024.3	7225.6	7179.8	6960.2	6780.3	7027.3	7329.3	7362.8	7195.1	7164.6
52.5°	7686.1	7771.5	7881.3	7917.9	7707.5	7643.4	7658.7	8033.9	7951.5	7789.8	7686.1
55°	8314.5	8354.1	8555.4	8857.4	8842.1	8534.1	8711.0	8851.3	8515.8	8183.3	8210.8
57.5°	8582.9	8601.2	9162.4	9766.3	10126.2	10196.3	9995.0	9522.3	8723.2	8082.7	8043.0
60°	7914.9	8088.8	8765.9	10129.2	11773.2	12584.5	11245.6	9598.5	8238.2	7460.4	7402.5
62.5°	6325.8	6335.0	7341.5	9409.4	12798.0	14923.9	11724.4	8881.8	6945.0	6063.5	5831.7
64°	4504.9	4590.3	5746.3	8329.7	12584.5	15875.5	11666.5	7945.4	5725.0	4474.4	4312.8
65°	3233.1	3352.0	4468.3	7231.7	12084.3	15762.7	11492.6	7140.2	4630.0	3416.1	3251.4
67.5°	1189.5	1238.3	1753.8	3617.4	8677.4	13432.5	9107.5	3925.4	2034.4	1448.8	1302.4
70°	552.1	555.1	649.7	1195.6	3794.3	8982.4	4346.3	1473.2	765.6	607.0	564.3
72.5°	405.7	414.8	454.5	552.1	1116.3	3803.4	1427.4	603.9	448.4	396.5	387.4
75°	329.4	335.5	347.7	399.6	515.5	1018.7	579.5	417.9	356.9	320.3	308.1
77.5°	253.2	253.2	280.6	305.0	341.6	475.8	384.3	332.5	289.8	253.2	244.0
80°	183.0	186.1	219.6	237.9	231.8	314.2	277.6	274.5	237.9	198.3	183.0
82.5°	106.8	115.9	158.6	170.8	164.7	186.1	201.3	213.5	186.1	137.3	125.1
85°	61.0	64.1	91.5	94.6	94.6	88.5	115.9	128.1	125.1	85.4	76.3
87.5°	18.3	18.3	24.4	24.4	27.5	30.5	45.8	54.9	61.0	42.7	39.7
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°	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1
2.5°	3162.9	3117.2	3120.2	3132.4	3092.8	3108.0	3153.8	3120.2	3111.1	3092.8	3083.6
5°	3147.7	3196.5	3178.2	3184.3	3175.1	3132.4	3126.3	3153.8	3169.0	3141.6	3196.5
7.5°	3254.4	3233.1	3208.7	3217.8	3196.5	3233.1	3257.5	3202.6	3230.0	3214.8	3184.3
10°	3315.4	3275.8	3294.1	3288.0	3272.7	3309.3	3284.9	3278.8	3254.4	3220.9	3269.7
12.5°	3336.8	3382.5	3413.0	3361.2	3370.3	3352.0	3336.8	3336.8	3309.3	3300.2	3309.3
15°	3431.3	3471.0	3458.8	3498.4	3446.6	3464.9	3483.2	3437.4	3461.8	3394.7	3446.6
17.5°	3605.2	3571.6	3614.3	3562.5	3580.8	3617.4	3559.4	3559.4	3577.7	3541.1	3495.4
20°	3715.0	3699.7	3684.5	3687.5	3657.0	3690.6	3672.3	3663.1	3635.7	3647.9	3672.3
22.5°	3818.7	3797.3	3803.4	3812.6	3833.9	3818.7	3809.5	3818.7	3751.6	3812.6	3727.2
25°	3946.8	4004.7	3986.4	4026.1	3965.1	4004.7	4001.7	3943.7	3980.3	3955.9	3937.6
27.5°	4160.3	4129.8	4157.2	4108.4	4151.1	4154.2	4117.6	4215.2	4172.5	4166.4	4154.2
30°	4434.8	4413.4	4395.1	4367.7	4401.2	4373.8	4404.3	4413.4	4373.8	4343.3	4285.3
32.5°	4590.3	4648.3	4669.6	4602.5	4605.6	4620.8	4593.4	4565.9	4590.3	4599.5	4590.3
35°	4809.9	4864.8	4877.0	4825.2	4797.7	4874.0	4819.1	4910.6	4831.3	4834.3	4752.0
37.5°	5066.1	5081.4	5185.1	5127.1	5102.7	5066.1	5166.8	5154.6	5172.9	5026.5	5099.7
40°	5355.9	5410.8	5468.8	5322.4	5319.3	5352.9	5346.8	5416.9	5383.4	5362.0	5310.2
42.5°	5673.1	5789.0	5798.2	5700.6	5639.6	5633.5	5664.0	5819.5	5822.6	5682.3	5621.3
45°	6094.0	6222.1	6188.6	5999.5	5932.4	5923.2	6072.7	6139.8	6197.7	6142.8	6091.0
47.5°	6618.6	6704.0	6679.6	6505.8	6289.2	6350.2	6496.6	6707.1	6646.1	6572.9	6511.9
50°	7179.8	7280.5	7228.6	7054.8	6847.4	6847.4	7027.3	7295.7	7277.4	7134.1	7079.2
52.5°	7802.0	7948.4	8067.4	7820.3	7646.5	7673.9	7957.6	8055.2	8009.5	7908.8	7863.0
55°	8265.7	8546.3	8790.3	8802.5	8811.6	8808.6	8881.8	8979.4	8653.0	8491.4	8326.7
57.5°	8152.8	8683.5	9519.2	10086.5	10254.3	10342.7	10318.3	9866.9	9095.3	8564.6	8619.5
60°	7347.6	8213.8	9561.9	11382.8	12602.8	12480.8	12035.5	10251.2	8851.3	7954.5	7841.7
62.5°	5862.2	6905.3	8845.2	11748.8	15110.0	15073.4	12743.1	9363.7	7375.0	6240.4	6170.3
64°	4416.5	5514.5	7890.5	11654.3	15988.4	16025.0	12563.2	8271.8	5770.7	4416.5	4309.7
65°	3379.5	4398.2	6954.1	11459.1	15799.3	15820.6	12063.0	7143.2	4386.0	3135.5	3019.6
67.5°	1345.1	1872.7	3772.9	8689.6	13566.7	13508.7	8607.3	3455.7	1677.5	1091.9	1070.6
70°	573.4	713.7	1323.7	4117.6	9083.1	8915.3	3705.8	1122.4	622.2	521.6	518.5
72.5°	393.5	436.2	567.3	1271.9	3776.0	3687.5	1055.3	521.6	424.0	390.4	390.4
75°	317.2	347.7	411.8	533.8	1000.4	963.8	497.2	384.3	338.6	314.2	311.1
77.5°	247.1	277.6	323.3	369.1	457.5	454.5	332.5	289.8	262.3	244.0	237.9
80°	195.2	225.7	256.2	262.3	298.9	292.8	225.7	228.8	213.5	176.9	173.9
82.5°	134.2	183.0	204.4	186.1	176.9	176.9	161.7	161.7	149.5	109.8	100.7
85°	82.4	122.0	128.1	109.8	82.4	82.4	88.5	85.4	79.3	58.0	54.9
87.5°	42.7	58.0	51.9	42.7	27.5	27.5	24.4	18.3	18.3	15.3	15.3
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)