

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: P481144

Luminaire Tested: **IFLD-M-SA4E-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481144
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-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

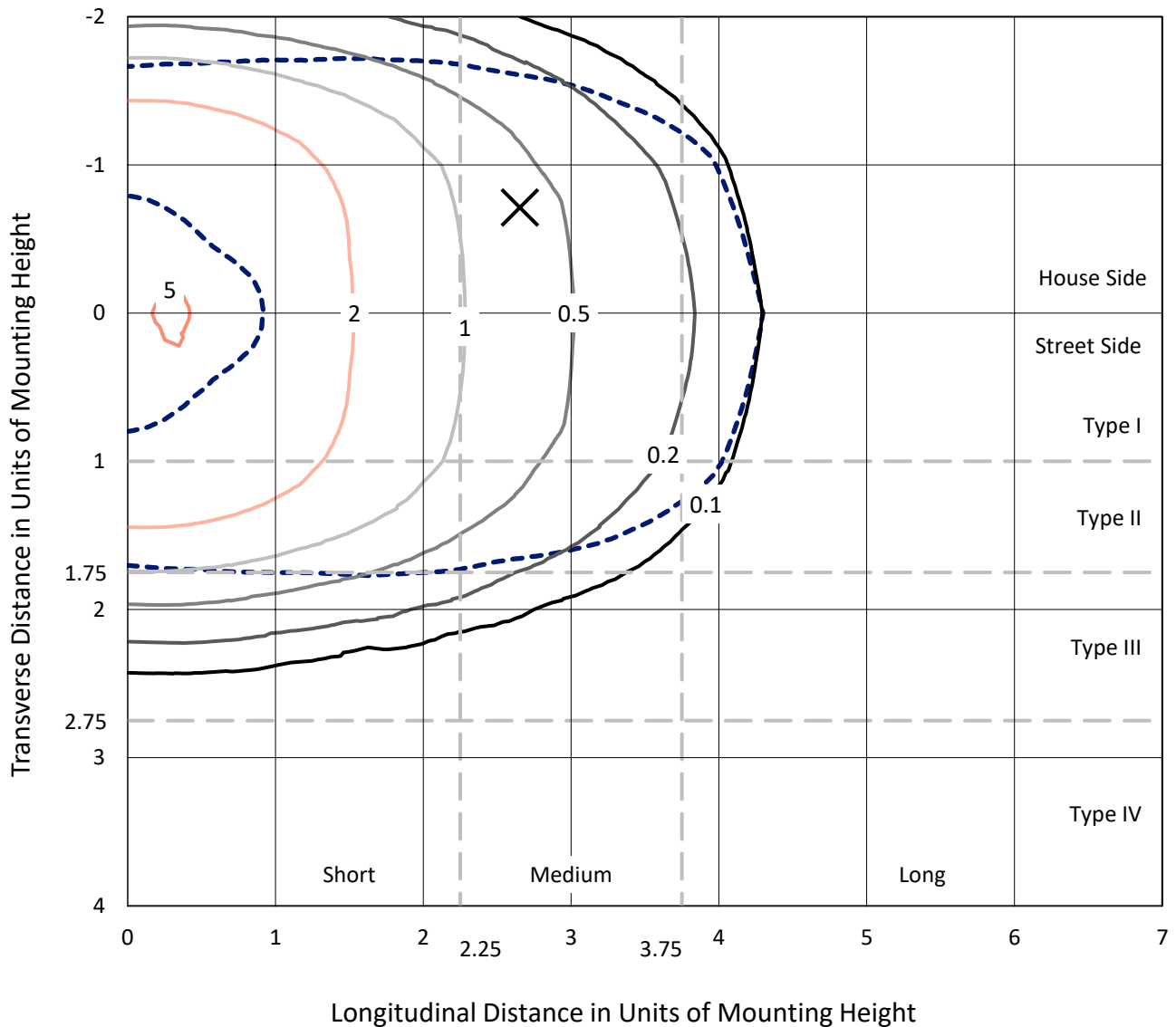
Lumens per Lamp: N/A
Luminaire Lumens: 27469.1 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

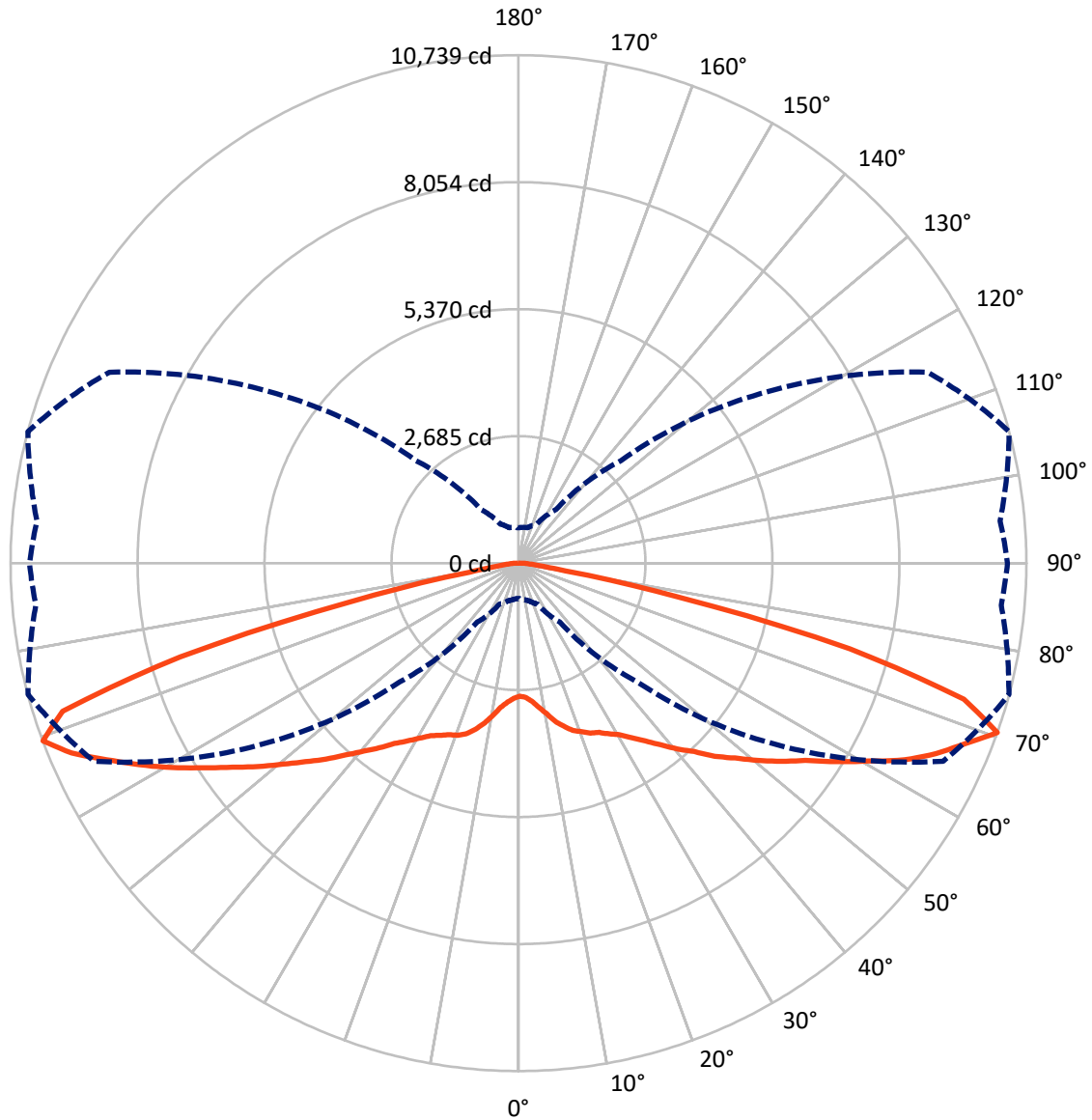
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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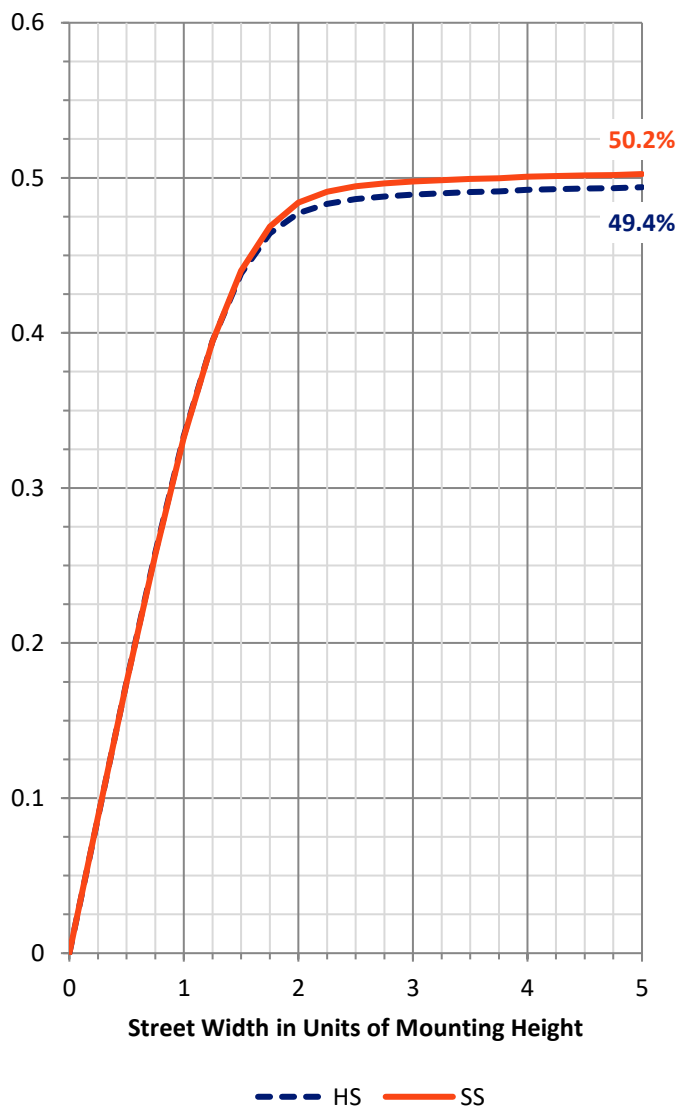
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13636.8	0.0	13636.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	13832.2	0.0	13832.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	27469.1	0.0	27469.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.0	1.0
10°-20°	953.3	3.5
20°-30°	1845.9	6.7
30°-40°	3122.1	11.4
40°-50°	4980.7	18.1
50°-60°	6817.5	24.8
60°-70°	6425.9	23.4
70°-80°	2830.8	10.3
80°-90°	213.0	0.8
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°	27469.1	100.0
0°-180°	27469.1	100.0

Coefficient of Utilization



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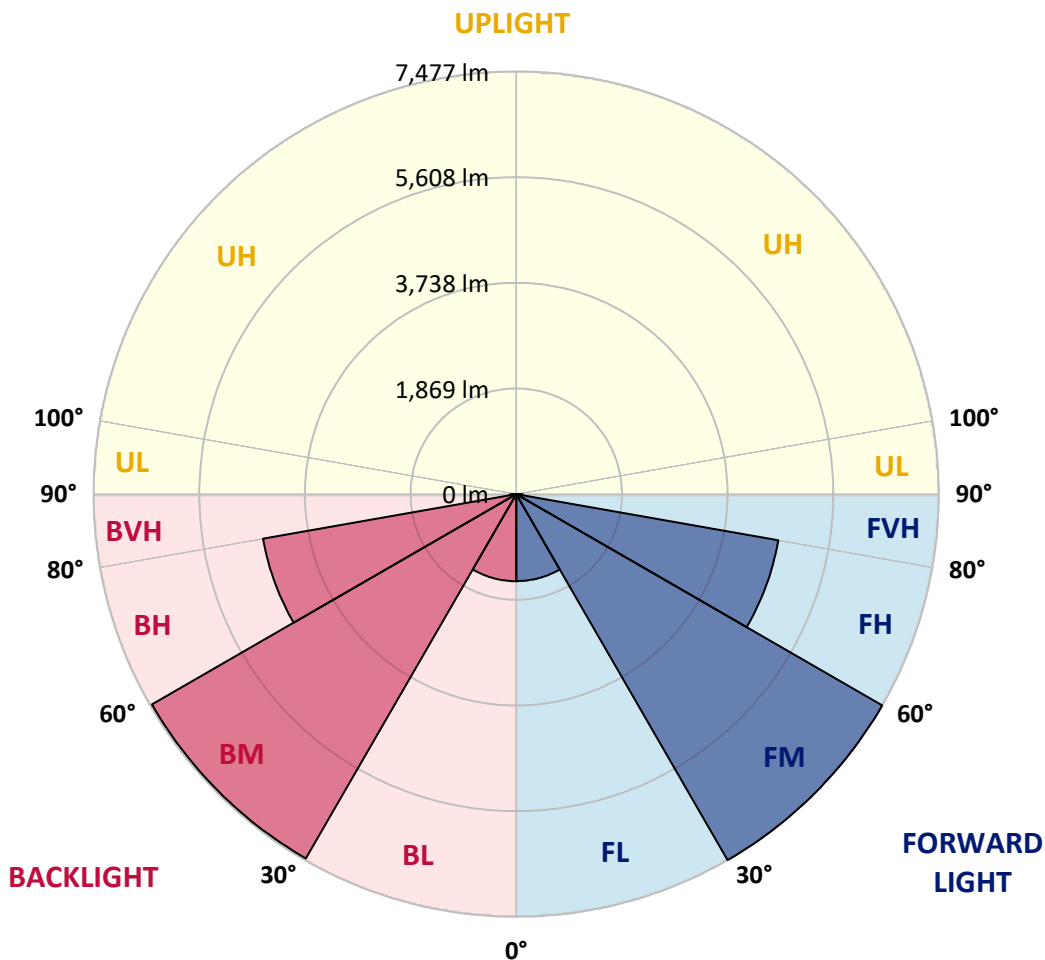
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.7	5.6			
FM (30°-60°)	7476.8	27.2			
FH (60°-80°)	4707.9	17.1			G2/5000
FVH (80°-90°)	108.8	0.4			G2/225
BL (0°-30°)	1540.4	5.6	B3/2500		
BM (30°-60°)	7443.4	27.1	B4/8500		
BH (60°-80°)	4548.8	16.6	B4/5000		G4/5000
BVH (80°-90°)	104.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8
2.5°	2795.0	2795.0	2792.1	2806.9	2821.7	2827.6	2839.5	2842.4	2860.2	2845.4	2875.0
5°	2786.2	2783.2	2806.9	2842.4	2842.4	2880.9	2904.6	2937.2	2946.0	2963.8	2969.7
7.5°	2848.3	2842.4	2830.6	2869.1	2901.6	2960.8	2993.4	3049.7	3070.4	3094.1	3120.7
10°	2886.8	2886.8	2875.0	2943.1	2972.7	3052.6	3123.7	3180.0	3259.9	3286.5	3289.5
12.5°	2892.7	2901.6	2937.2	3026.0	3108.9	3212.5	3265.8	3372.4	3452.3	3502.7	3520.4
15°	2981.6	2963.8	3002.3	3123.7	3245.1	3336.9	3431.6	3508.6	3624.1	3689.2	3730.7
17.5°	3061.5	3043.8	3114.8	3259.9	3384.3	3526.4	3609.3	3692.2	3775.1	3834.3	3837.3
20°	3188.8	3203.6	3265.8	3422.7	3585.6	3709.9	3804.7	3819.5	3860.9	3946.8	3932.0
22.5°	3345.8	3333.9	3464.2	3635.9	3813.6	3917.2	3970.5	3932.0	3911.3	4003.1	4023.8
25°	3502.7	3538.2	3656.6	3816.5	4029.7	4168.9	4183.7	4077.1	4000.1	4032.7	4023.8
27.5°	3742.5	3748.4	3872.8	4062.3	4278.4	4399.8	4390.9	4239.9	4091.9	4094.9	4100.8
30°	4050.4	4020.8	4157.0	4328.8	4541.9	4651.5	4666.3	4450.2	4251.8	4192.6	4207.4
32.5°	4346.5	4382.1	4500.5	4695.9	4852.8	4915.0	4882.4	4690.0	4432.4	4352.4	4361.3
35°	4725.5	4719.6	4882.4	5048.2	5166.7	5178.5	5151.9	4870.6	4627.8	4524.2	4482.7
37.5°	5131.2	5184.4	5291.0	5427.2	5551.6	5557.5	5412.4	5187.4	4888.4	4716.6	4767.0
40°	5584.2	5643.4	5720.4	5918.7	6010.5	5915.8	5767.7	5462.8	5151.9	5000.9	5024.6
42.5°	5983.9	6010.5	6167.4	6401.4	6445.8	6404.3	6185.2	5815.1	5453.9	5288.1	5299.9
45°	6351.0	6386.6	6590.8	6801.1	6904.7	6833.6	6579.0	6226.7	5806.2	5664.1	5607.8
47.5°	6688.6	6759.6	6958.0	7174.1	7334.0	7339.9	7026.1	6599.7	6155.6	5969.1	5966.1
50°	6916.5	7020.2	7215.6	7461.3	7695.2	7787.0	7473.2	7014.3	6537.6	6339.2	6318.5
52.5°	7040.9	7147.5	7342.9	7724.9	7985.4	8127.5	7979.5	7402.1	6984.6	6777.4	6744.8
55°	6889.9	6961.0	7280.7	7816.6	8219.3	8453.2	8355.5	7938.0	7428.8	7260.0	7289.6
57.5°	6247.4	6395.4	6789.2	7458.4	8213.4	8787.8	8778.9	8444.3	7941.0	7781.1	7787.0
60°	5143.0	5267.4	5752.9	6688.6	7881.8	8924.0	9237.8	8935.8	8515.4	8328.9	8322.9
62.5°	3630.0	3786.9	4349.5	5371.0	6904.7	8734.5	9764.9	9554.7	9078.0	8941.8	8992.1
65°	2031.1	2125.9	2647.0	3570.8	5261.4	7692.3	9859.6	10197.2	9649.4	9442.1	9451.0
67.5°	1086.6	1122.2	1365.0	1874.2	3218.4	5930.6	8903.3	10567.3	10268.2	9910.0	9853.7
70°	746.1	758.0	820.2	959.3	1521.9	3547.1	6715.2	9907.0	10733.1	10244.5	10339.3
72.5°	630.7	624.7	639.5	654.3	796.5	1587.0	3940.9	7624.2	10132.0	9948.5	9912.9
75°	547.8	544.8	550.7	535.9	553.7	698.8	1743.9	4752.2	7416.9	8278.5	8411.8
77.5°	453.0	456.0	458.9	444.1	438.2	461.9	701.7	2087.4	3650.7	4029.7	4346.5
80°	343.5	349.4	373.1	358.3	334.6	337.5	414.5	698.8	1048.1	950.4	980.0
82.5°	233.9	236.9	287.2	269.4	251.7	228.0	266.5	361.2	408.6	310.9	272.4
85°	165.8	162.8	186.5	171.7	159.9	115.5	159.9	204.3	245.8	154.0	139.2
87.5°	38.5	38.5	77.0	62.2	59.2	47.4	62.2	79.9	106.6	68.1	62.2
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°	145°	155°	165°	175°	180°
0°	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8
2.5°	2866.1	2839.5	2839.5	2833.5	2809.8	2803.9	2783.2	2789.1	2774.3	2759.5
5°	2966.8	2931.2	2931.2	2880.9	2833.5	2827.6	2803.9	2803.9	2780.2	2786.2
7.5°	3105.9	3073.4	3020.1	2975.7	2910.5	2883.9	2839.5	2833.5	2827.6	2815.8
10°	3271.7	3230.3	3177.0	3085.2	3031.9	2981.6	2937.2	2875.0	2860.2	2863.1
12.5°	3496.8	3431.6	3316.2	3236.2	3168.1	3103.0	3037.8	2946.0	2925.3	2934.2
15°	3656.6	3573.7	3458.3	3428.7	3336.9	3256.9	3150.3	3046.7	3011.2	3002.3
17.5°	3786.9	3718.8	3650.7	3606.3	3532.3	3434.6	3286.5	3168.1	3088.2	3079.3
20°	3893.5	3804.7	3789.9	3816.5	3724.7	3659.6	3479.0	3333.9	3227.3	3182.9
22.5°	3958.7	3902.4	3943.9	3967.5	3961.6	3852.1	3665.5	3496.8	3363.5	3322.1
25°	4029.7	3964.6	4112.6	4192.6	4213.3	4032.7	3887.6	3665.5	3535.3	3508.6
27.5°	4065.2	4088.9	4260.7	4429.4	4414.6	4275.5	4080.0	3881.7	3778.0	3730.7
30°	4168.9	4207.4	4467.9	4657.4	4660.4	4524.2	4376.1	4151.1	4035.6	4014.9
32.5°	4355.4	4402.8	4681.1	4882.4	4918.0	4814.3	4666.3	4527.1	4408.7	4361.3
35°	4497.5	4618.9	4932.8	5116.3	5211.1	5148.9	5066.0	4920.9	4796.6	4755.1
37.5°	4701.8	4870.6	5172.6	5421.3	5527.9	5522.0	5459.8	5302.9	5199.3	5163.7
40°	4995.0	5163.7	5439.1	5767.7	5966.1	5957.2	5921.7	5800.3	5646.3	5628.6
42.5°	5305.8	5445.0	5803.3	6179.3	6463.5	6433.9	6339.2	6197.1	6090.5	6066.8
45°	5607.8	5824.0	6155.6	6638.2	6851.4	6925.4	6812.9	6570.1	6448.7	6433.9
47.5°	5986.8	6158.6	6573.1	7005.4	7322.2	7334.0	7141.6	6916.5	6694.5	6741.9
50°	6324.4	6552.4	6972.8	7446.5	7825.5	7689.3	7443.6	7162.3	7002.4	6940.2
52.5°	6685.6	6963.9	7452.5	7935.1	8145.3	8009.1	7609.4	7295.5	7052.7	7026.1
55°	7212.6	7357.7	7997.3	8367.4	8435.5	8148.3	7559.0	7114.9	6801.1	6724.1
57.5°	7748.5	7917.3	8476.9	8796.7	8725.6	8071.3	7233.4	6546.4	6134.9	6025.3
60°	8290.4	8497.6	8968.4	9261.5	8894.4	7541.3	6312.5	5427.2	4947.6	4849.9
62.5°	8894.4	9163.8	9584.3	9687.9	8394.0	6493.1	5009.8	3917.2	3431.6	3268.8
65°	9430.3	9705.7	10223.8	9599.1	7331.1	4843.9	3239.2	2238.4	1880.1	1749.9
67.5°	9871.5	10182.4	10437.0	8494.7	5368.0	2836.5	1687.7	1178.4	1045.2	997.8
70°	10220.9	10739.0	9548.7	6244.4	3067.4	1382.7	911.9	775.7	758.0	746.1
72.5°	9915.9	9847.8	7129.7	3603.4	1344.2	760.9	660.3	639.5	636.6	639.5
75°	8109.8	7233.4	4263.6	1566.3	675.1	550.7	547.8	538.9	553.7	553.7
77.5°	3935.0	3440.5	1782.4	672.1	444.1	432.3	447.1	447.1	447.1	447.1
80°	911.9	1009.6	636.6	408.6	322.7	322.7	355.3	358.3	343.5	337.5
82.5°	310.9	414.5	349.4	257.6	213.2	239.8	269.4	275.4	228.0	230.9
85°	154.0	242.8	189.5	148.0	109.6	148.0	174.7	183.6	156.9	151.0
87.5°	71.1	106.6	71.1	50.3	38.5	53.3	50.3	41.5	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)