

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: P481260

Luminaire Tested: **IFLD-M-SA4D-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481260
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

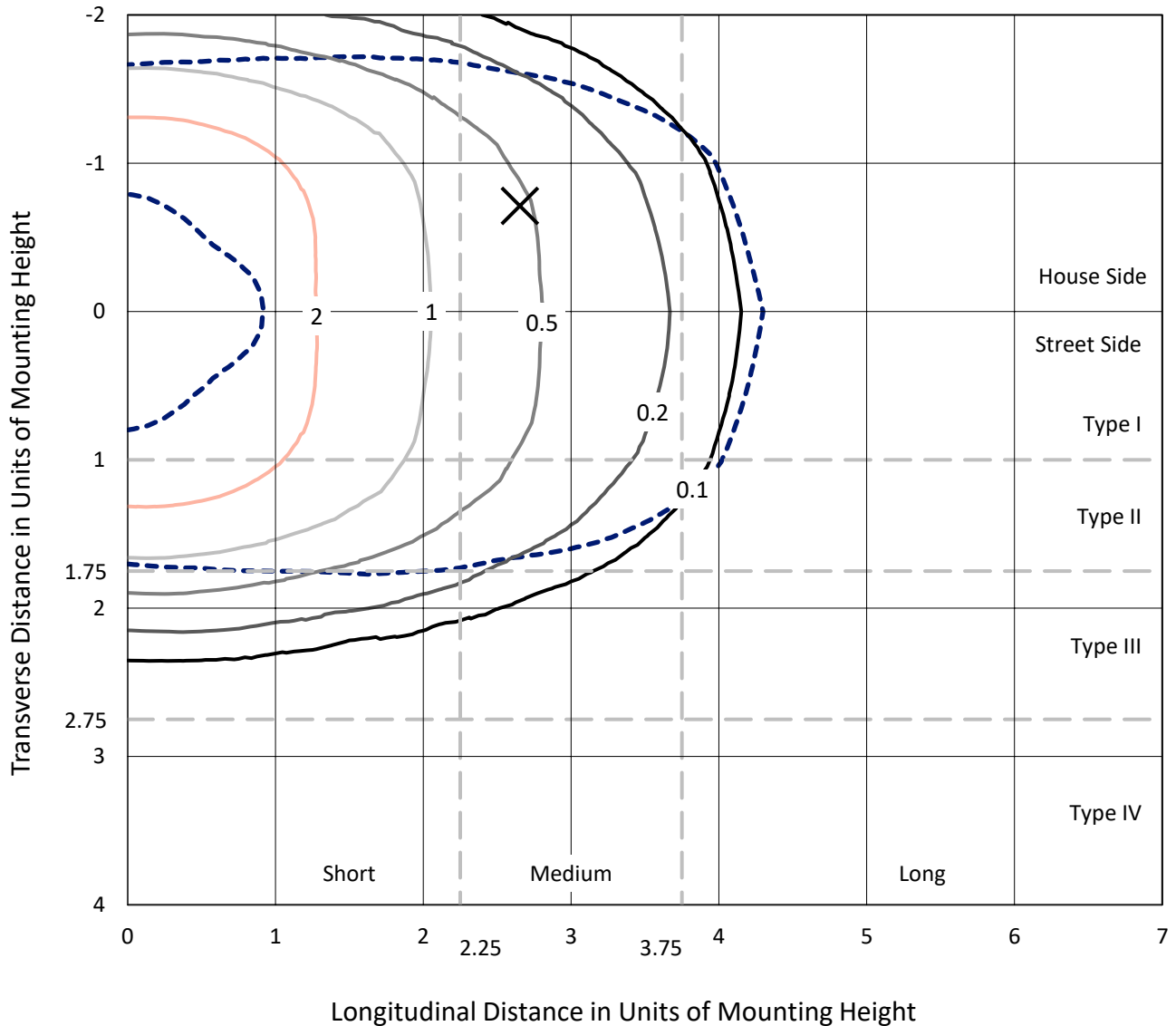
Lumens per Lamp: N/A
Luminaire Lumens: 31781.8 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 249.7
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

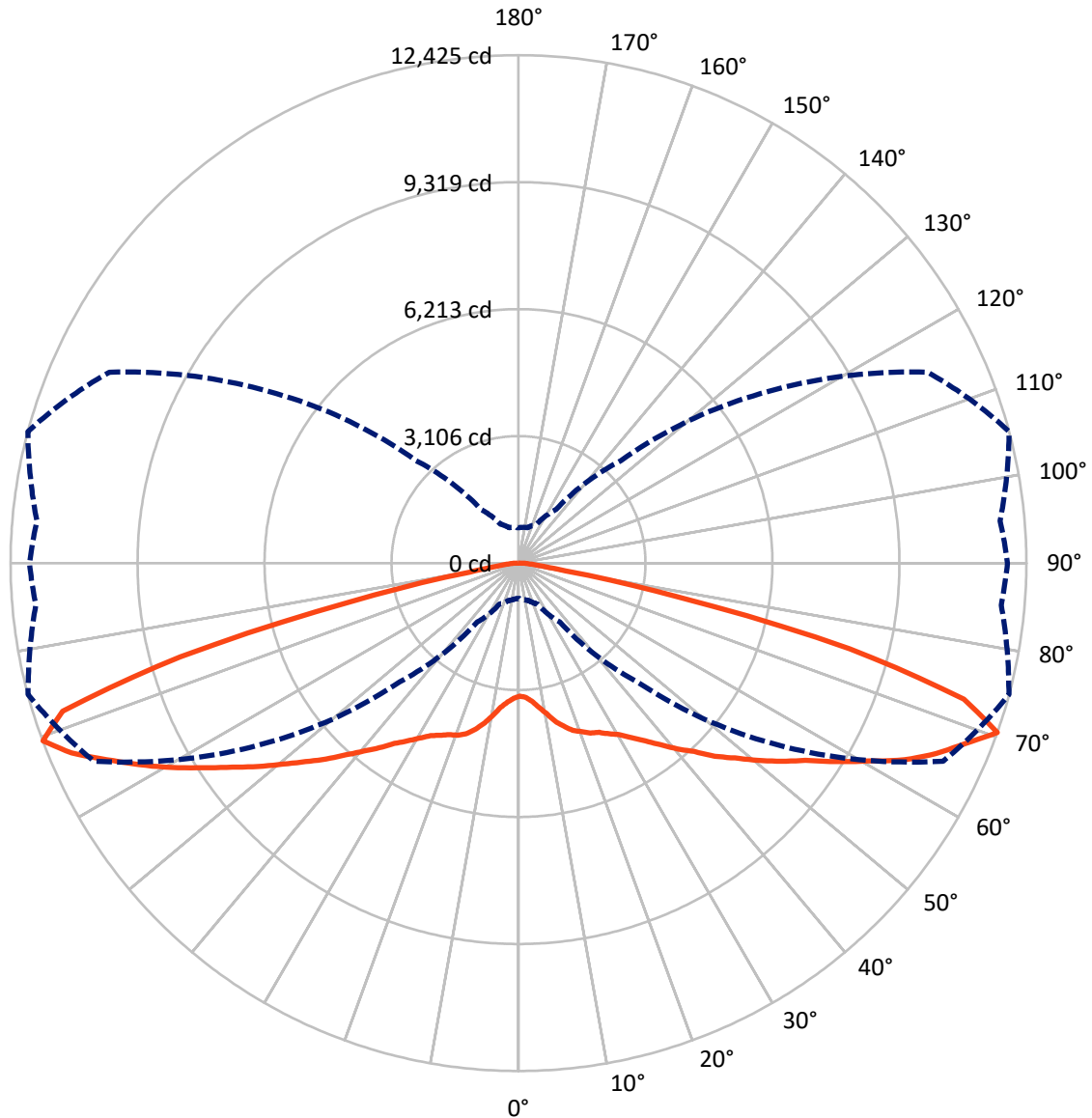
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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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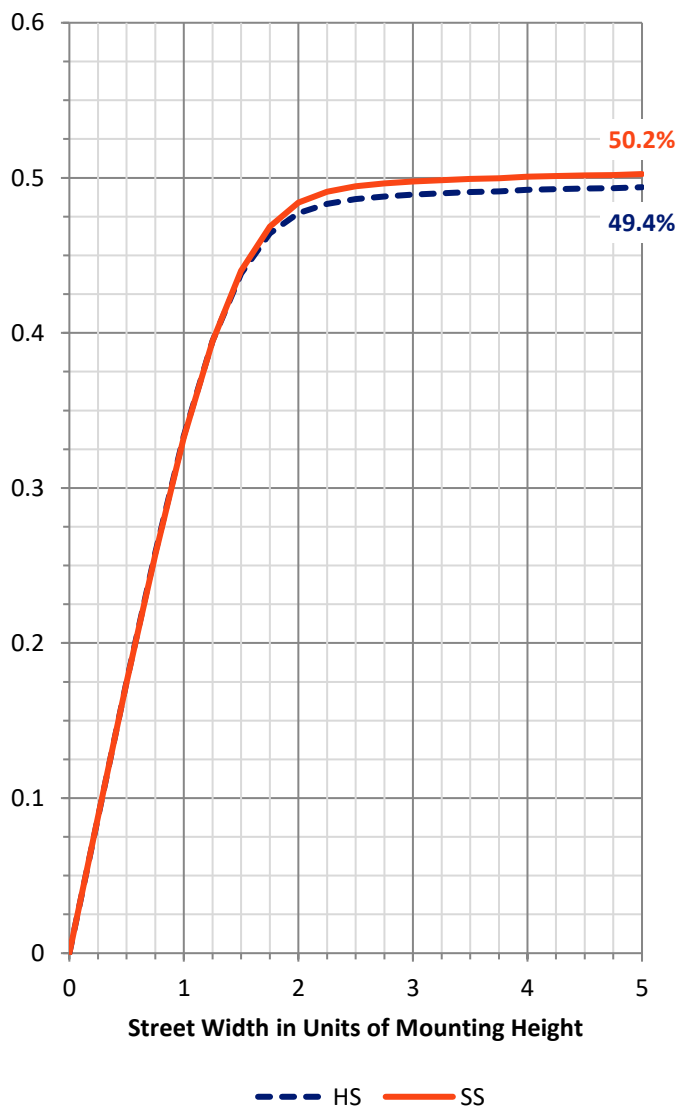
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15777.9	0.0	15777.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	16004.0	0.0	16004.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	31781.8	0.0	31781.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.9	1.0
10°-20°	1102.9	3.5
20°-30°	2135.7	6.7
30°-40°	3612.3	11.4
40°-50°	5762.7	18.1
50°-60°	7887.9	24.8
60°-70°	7434.8	23.4
70°-80°	3275.3	10.3
80°-90°	246.4	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°	31781.8	100.0
0°-180°	31781.8	100.0

Coefficient of Utilization



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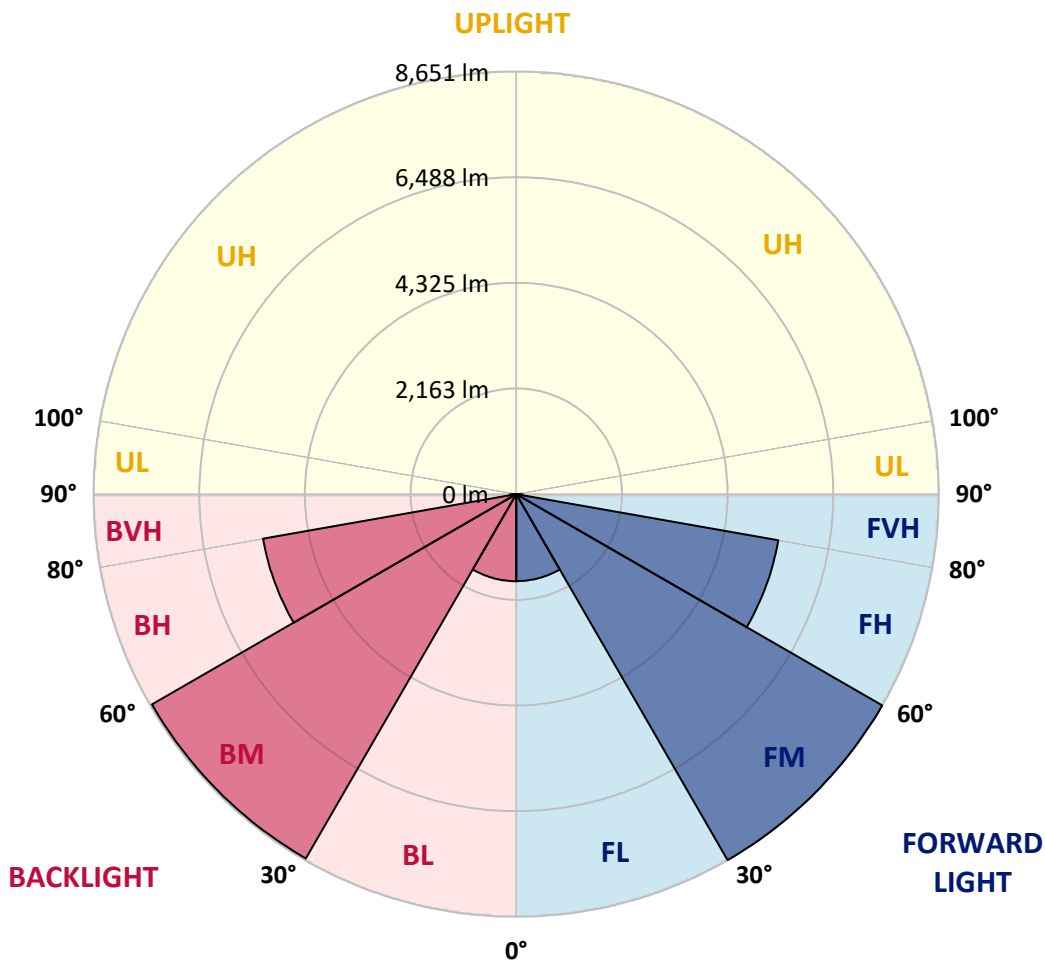
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.3	5.6			
FM (30°-60°)	8650.7	27.2			
FH (60°-80°)	5447.1	17.1			G3/7500
FVH (80°-90°)	125.9	0.4			G2/225
BL (0°-30°)	1782.2	5.6	B3/2500		
BM (30°-60°)	8612.1	27.1	B5		
BH (60°-80°)	5263.0	16.6	B5		G5
BVH (80°-90°)	120.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4
2.5°	3233.9	3233.9	3230.4	3247.6	3264.7	3271.6	3285.3	3288.7	3309.2	3292.1	3326.4
5°	3223.6	3220.2	3247.6	3288.7	3288.7	3333.2	3360.6	3398.3	3408.6	3429.1	3436.0
7.5°	3295.5	3288.7	3275.0	3319.5	3357.2	3425.7	3463.4	3528.5	3552.5	3579.9	3610.7
10°	3340.1	3340.1	3326.4	3405.2	3439.4	3531.9	3614.1	3679.2	3771.7	3802.5	3806.0
12.5°	3346.9	3357.2	3398.3	3501.1	3597.0	3716.9	3778.6	3901.9	3994.4	4052.6	4073.2
15°	3449.7	3429.1	3473.7	3614.1	3754.6	3860.8	3970.4	4059.5	4193.1	4268.4	4316.4
17.5°	3542.2	3521.6	3603.9	3771.7	3915.6	4080.0	4175.9	4271.9	4367.8	4436.3	4439.7
20°	3689.5	3706.6	3778.6	3960.1	4148.5	4292.4	4402.0	4419.2	4467.1	4566.5	4549.3
22.5°	3871.1	3857.4	4008.1	4206.8	4412.3	4532.2	4593.9	4549.3	4525.4	4631.6	4655.5
25°	4052.6	4093.7	4230.8	4415.7	4662.4	4823.4	4840.5	4717.2	4628.1	4665.8	4655.5
27.5°	4330.1	4337.0	4480.8	4700.1	4950.2	5090.6	5080.3	4905.6	4734.3	4737.8	4744.6
30°	4686.4	4652.1	4809.7	5008.4	5255.0	5381.8	5398.9	5148.8	4919.3	4850.8	4867.9
32.5°	5028.9	5070.1	5207.1	5433.2	5614.7	5686.7	5649.0	5426.3	5128.3	5035.8	5046.1
35°	5467.4	5460.6	5649.0	5840.8	5977.9	5991.6	5960.7	5635.3	5354.4	5234.5	5186.5
37.5°	5936.8	5998.4	6121.8	6279.3	6423.2	6430.1	6262.2	6001.9	5655.9	5457.2	5515.4
40°	6460.9	6529.4	6618.5	6848.0	6954.2	6844.6	6673.3	6320.4	5960.7	5786.0	5813.4
42.5°	6923.4	6954.2	7135.8	7406.4	7457.8	7409.8	7156.3	6728.1	6310.2	6118.3	6132.0
45°	7348.2	7389.3	7625.6	7868.9	7988.8	7906.6	7611.9	7204.3	6717.8	6553.4	6488.3
47.5°	7738.7	7820.9	8050.4	8300.5	8485.5	8492.3	8129.2	7635.9	7122.1	6906.2	6902.8
50°	8002.5	8122.4	8348.5	8632.8	8903.4	9009.6	8646.5	8115.5	7564.0	7334.5	7310.5
52.5°	8146.4	8269.7	8495.8	8937.7	9239.2	9403.6	9232.3	8564.3	8081.3	7841.5	7803.8
55°	7971.6	8053.9	8423.8	9043.9	9509.8	9780.4	9667.4	9184.3	8595.1	8399.9	8434.1
57.5°	7228.3	7399.5	7855.2	8629.4	9502.9	10167.5	10157.2	9770.1	9187.8	9002.8	9009.6
60°	5950.5	6094.3	6656.2	7738.7	9119.3	10325.1	10688.2	10338.8	9852.4	9636.5	9629.7
62.5°	4199.9	4381.5	5032.4	6214.2	7988.8	10105.9	11298.0	11054.8	10503.2	10345.7	10403.9
65°	2350.0	2459.7	3062.6	4131.4	6087.5	8900.0	11407.6	11798.2	11164.4	10924.6	10934.9
67.5°	1257.2	1298.3	1579.3	2168.5	3723.8	6861.7	10301.1	12226.4	11880.4	11465.9	11400.8
70°	863.3	877.0	948.9	1109.9	1760.8	4104.0	7769.5	11462.4	12418.2	11853.0	11962.6
72.5°	729.7	722.8	740.0	757.1	921.5	1836.2	4559.6	8821.2	11722.8	11510.4	11469.3
75°	633.8	630.3	637.2	620.1	640.6	808.5	2017.7	5498.3	8581.4	9578.3	9732.5
77.5°	524.1	527.6	531.0	513.9	507.0	534.4	811.9	2415.1	4223.9	4662.4	5028.9
80°	397.4	404.2	431.6	414.5	387.1	390.5	479.6	808.5	1212.7	1099.7	1133.9
82.5°	270.6	274.1	332.3	311.7	291.2	263.8	308.3	417.9	472.7	359.7	315.2
85°	191.8	188.4	215.8	198.7	185.0	133.6	185.0	236.4	284.3	178.1	161.0
87.5°	44.5	44.5	89.1	71.9	68.5	54.8	71.9	92.5	123.3	78.8	71.9
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°	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4
2.5°	3316.1	3285.3	3285.3	3278.4	3251.0	3244.2	3220.2	3227.0	3209.9	3192.8
5°	3432.6	3391.5	3391.5	3333.2	3278.4	3271.6	3244.2	3244.2	3216.7	3223.6
7.5°	3593.6	3555.9	3494.2	3442.8	3367.5	3336.6	3285.3	3278.4	3271.6	3257.9
10°	3785.4	3737.5	3675.8	3569.6	3507.9	3449.7	3398.3	3326.4	3309.2	3312.7
12.5°	4045.8	3970.4	3836.8	3744.3	3665.5	3590.1	3514.8	3408.6	3384.6	3394.9
15°	4230.8	4134.8	4001.2	3967.0	3860.8	3768.3	3645.0	3525.1	3484.0	3473.7
17.5°	4381.5	4302.7	4223.9	4172.5	4086.9	3973.8	3802.5	3665.5	3573.0	3562.7
20°	4504.8	4402.0	4384.9	4415.7	4309.5	4234.2	4025.2	3857.4	3734.0	3682.6
22.5°	4580.2	4515.1	4563.1	4590.5	4583.6	4456.9	4241.0	4045.8	3891.6	3843.7
25°	4662.4	4587.0	4758.3	4850.8	4874.8	4665.8	4498.0	4241.0	4090.3	4059.5
27.5°	4703.5	4730.9	4929.6	5124.9	5107.7	4946.7	4720.6	4491.1	4371.2	4316.4
30°	4823.4	4867.9	5169.4	5388.6	5392.1	5234.5	5063.2	4802.9	4669.2	4645.3
32.5°	5039.2	5094.0	5416.1	5649.0	5690.1	5570.2	5398.9	5237.9	5100.9	5046.1
35°	5203.7	5344.1	5707.2	5919.6	6029.3	5957.3	5861.4	5693.5	5549.7	5501.7
37.5°	5440.0	5635.3	5984.7	6272.5	6395.8	6389.0	6317.0	6135.5	6015.6	5974.4
40°	5779.2	5974.4	6293.0	6673.3	6902.8	6892.5	6851.4	6711.0	6532.8	6512.3
42.5°	6138.9	6299.9	6714.4	7149.5	7478.3	7444.1	7334.5	7170.0	7046.7	7019.3
45°	6488.3	6738.4	7122.1	7680.5	7927.1	8012.7	7882.6	7601.7	7461.2	7444.1
47.5°	6926.8	7125.5	7605.1	8105.2	8471.8	8485.5	8262.8	8002.5	7745.5	7800.4
50°	7317.3	7581.1	8067.6	8615.7	9054.2	8896.6	8612.2	8286.8	8101.8	8029.9
52.5°	7735.3	8057.3	8622.5	9180.9	9424.1	9266.6	8804.1	8441.0	8160.1	8129.2
55°	8345.0	8512.9	9252.9	9681.1	9759.9	9427.6	8745.9	8232.0	7868.9	7779.8
57.5°	8965.1	9160.4	9807.8	10177.8	10095.6	9338.5	8369.0	7574.3	7098.1	6971.3
60°	9592.0	9831.8	10376.5	10715.6	10290.8	8725.3	7303.6	6279.3	5724.4	5611.3
62.5°	10290.8	10602.6	11089.0	11208.9	9711.9	7512.6	5796.3	4532.2	3970.4	3782.0
65°	10910.9	11229.5	11829.0	11106.2	8482.1	5604.5	3747.7	2589.8	2175.3	2024.6
67.5°	11421.3	11781.0	12075.6	9828.4	6210.8	3281.8	1952.7	1363.4	1209.3	1154.5
70°	11825.6	12425.1	11047.9	7224.8	3549.0	1599.8	1055.1	897.5	877.0	863.3
72.5°	11472.7	11393.9	8249.1	4169.1	1555.3	880.4	763.9	740.0	736.5	740.0
75°	9383.0	8369.0	4933.0	1812.2	781.1	637.2	633.8	623.5	640.6	640.6
77.5°	4552.8	3980.7	2062.3	777.6	513.9	500.2	517.3	517.3	517.3	517.3
80°	1055.1	1168.2	736.5	472.7	373.4	373.4	411.1	414.5	397.4	390.5
82.5°	359.7	479.6	404.2	298.0	246.7	277.5	311.7	318.6	263.8	267.2
85°	178.1	280.9	219.2	171.3	126.8	171.3	202.1	212.4	181.6	174.7
87.5°	82.2	123.3	82.2	58.2	44.5	61.7	58.2	48.0	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)