

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: P481240

Luminaire Tested: **IFLD-S-SA3D-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481240
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

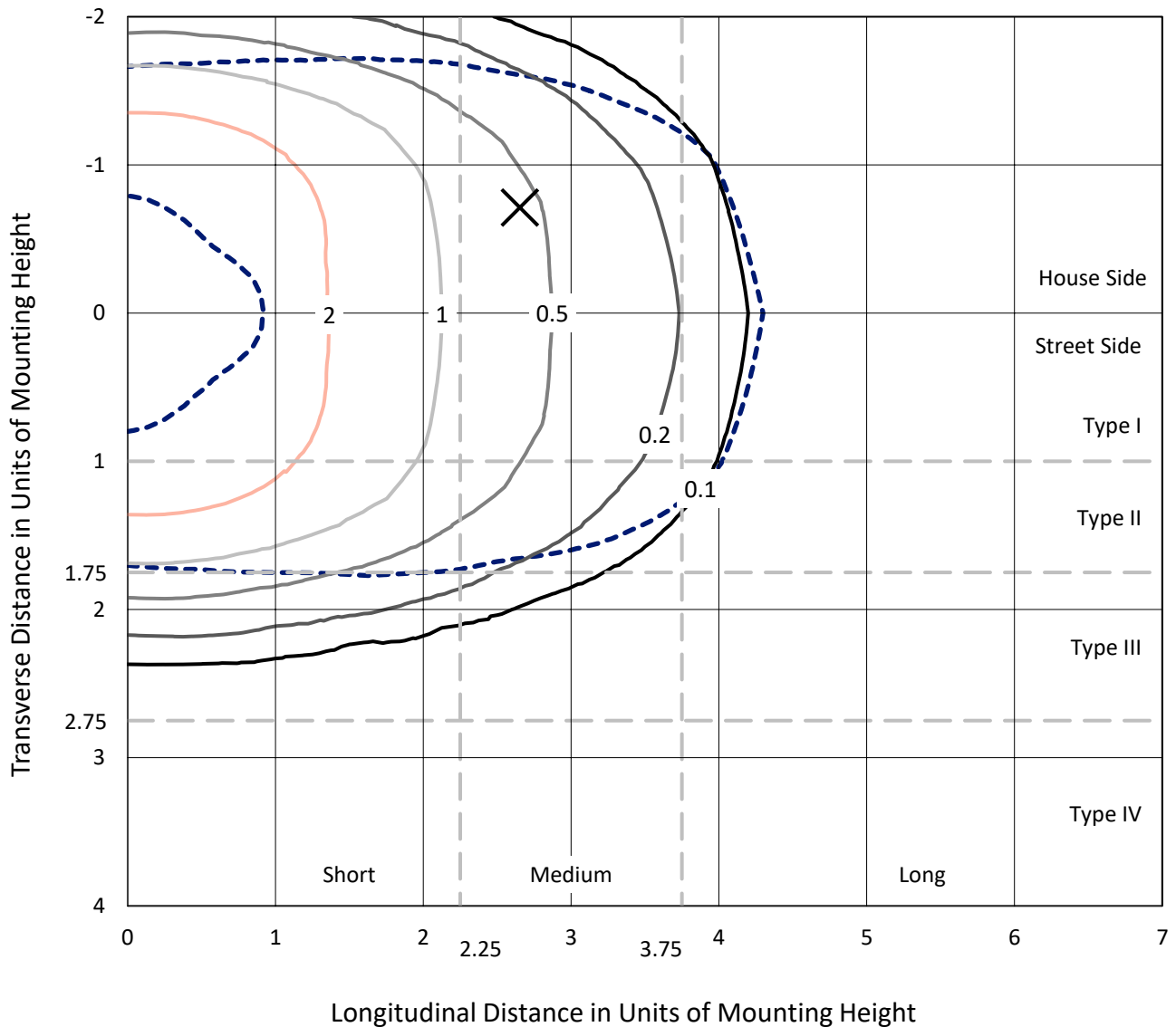
Lumens per Lamp: N/A
Luminaire Lumens: 23678 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 184.1
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

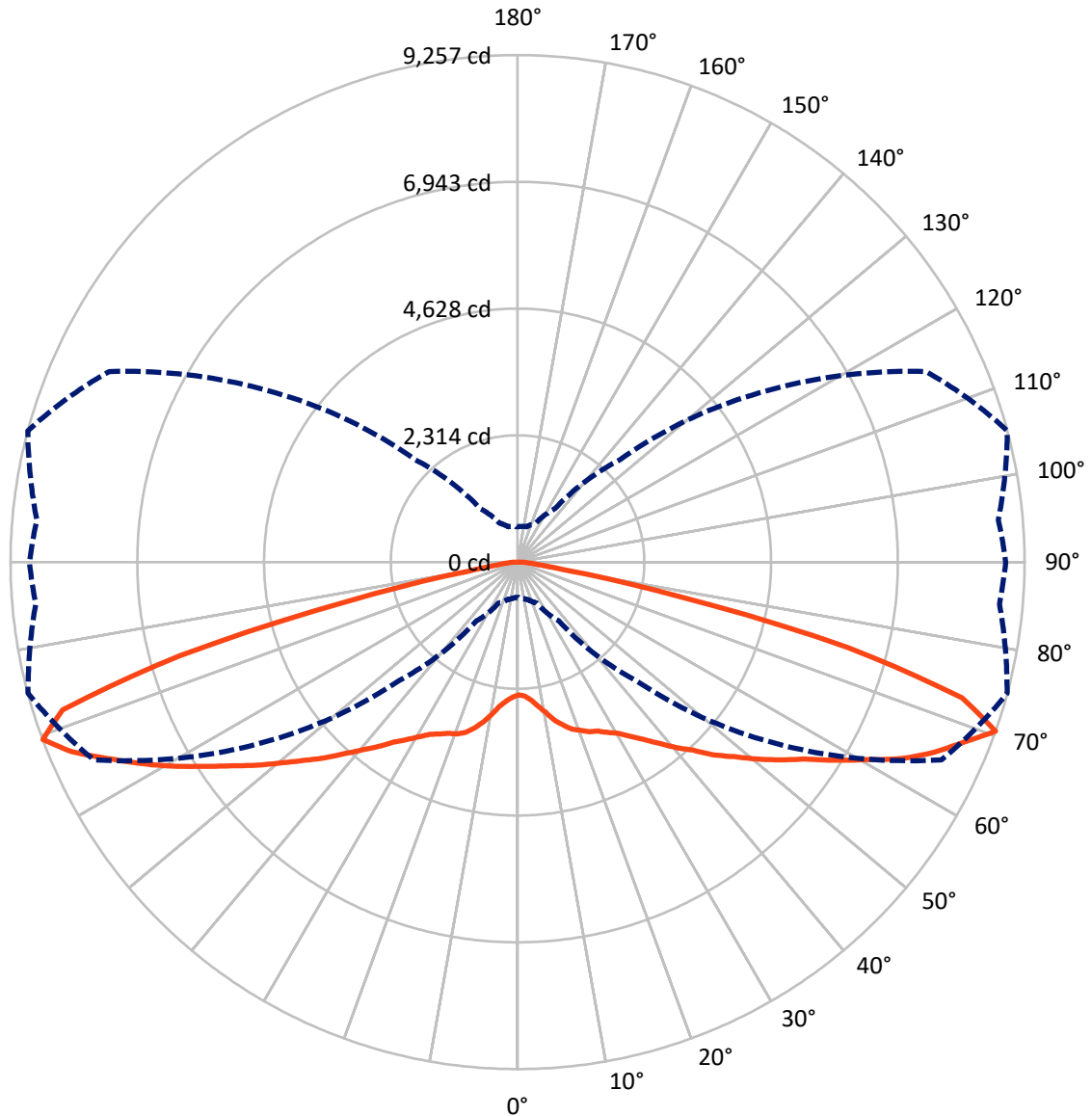
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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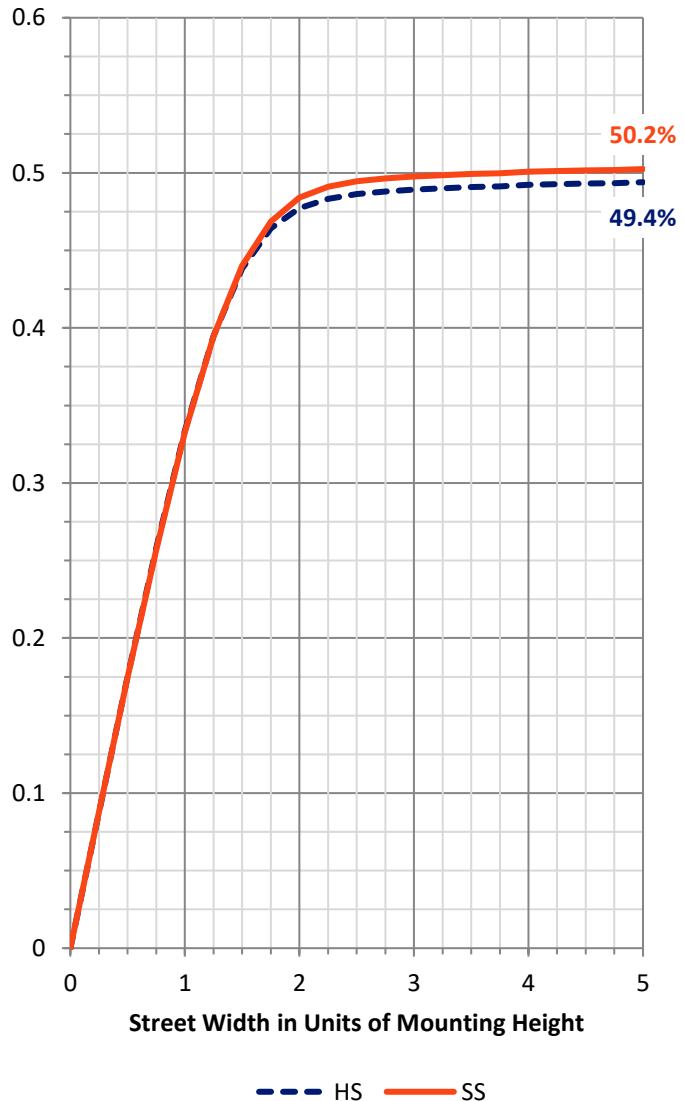
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11754.8	0.0	11754.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11923.2	0.0	11923.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	23678.0	0.0	23678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	1.0
10°-20°	821.7	3.5
20°-30°	1591.1	6.7
30°-40°	2691.2	11.4
40°-50°	4293.3	18.1
50°-60°	5876.6	24.8
60°-70°	5539.1	23.4
70°-80°	2440.1	10.3
80°-90°	183.6	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°	23678.0	100.0
0°-180°	23678.0	100.0

Coefficient of Utilization



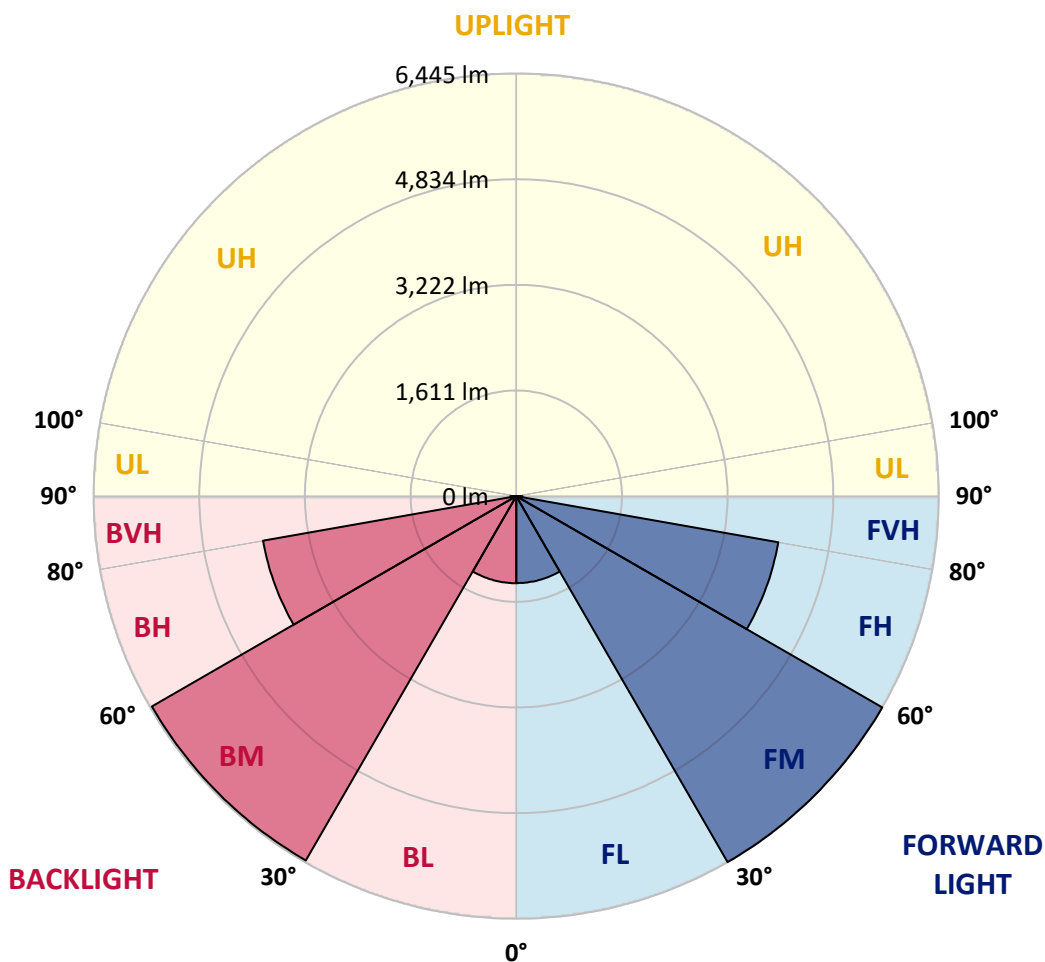
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1326.3	5.6			
FM (30°-60°)	6444.9	27.2			
FH (60°-80°)	4058.2	17.1			G2/5000
FVH (80°-90°)	93.8	0.4			G1/100
BL (0°-30°)	1327.8	5.6	B3/2500		
BM (30°-60°)	6416.1	27.1	B4/8500		
BH (60°-80°)	3921.0	16.6	B4/5000		G4/5000
BVH (80°-90°)	89.8	0.4			G1/100
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°	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6
2.5°	2409.3	2409.3	2406.7	2419.5	2432.3	2437.4	2447.6	2450.1	2465.4	2452.7	2478.2
5°	2401.6	2399.1	2419.5	2450.1	2450.1	2483.3	2503.7	2531.8	2539.4	2554.8	2559.9
7.5°	2455.2	2450.1	2439.9	2473.1	2501.2	2552.2	2580.3	2628.8	2646.6	2667.1	2690.0
10°	2488.4	2488.4	2478.2	2536.9	2562.4	2631.3	2692.6	2741.1	2810.0	2833.0	2835.5
12.5°	2493.5	2501.2	2531.8	2608.4	2679.8	2769.1	2815.1	2907.0	2975.9	3019.3	3034.6
15°	2570.1	2554.8	2587.9	2692.6	2797.2	2876.3	2958.0	3024.4	3123.9	3180.1	3215.8
17.5°	2639.0	2623.7	2684.9	2810.0	2917.2	3039.7	3111.1	3182.6	3254.1	3305.1	3307.7
20°	2748.7	2761.5	2815.1	2950.4	3090.7	3197.9	3279.6	3292.4	3328.1	3402.1	3389.3
22.5°	2884.0	2873.8	2986.1	3134.1	3287.2	3376.6	3422.5	3389.3	3371.5	3450.6	3468.5
25°	3019.3	3049.9	3152.0	3289.8	3473.6	3593.5	3606.3	3514.4	3448.0	3476.1	3468.5
27.5°	3226.0	3231.1	3338.3	3501.6	3687.9	3792.6	3784.9	3654.8	3527.2	3529.7	3534.8
30°	3491.4	3465.9	3583.3	3731.3	3915.1	4009.5	4022.3	3836.0	3665.0	3613.9	3626.7
32.5°	3746.6	3777.3	3879.4	4047.8	4183.1	4236.7	4208.6	4042.7	3820.7	3751.7	3759.4
35°	4073.3	4068.2	4208.6	4351.5	4453.6	4463.8	4440.8	4198.4	3989.1	3899.8	3864.0
37.5°	4423.0	4468.9	4560.8	4678.2	4785.4	4790.5	4665.4	4471.5	4213.7	4065.7	4109.1
40°	4813.5	4864.5	4930.9	5101.9	5181.0	5099.3	4971.7	4708.8	4440.8	4310.7	4331.1
42.5°	5158.0	5181.0	5316.3	5517.9	5556.2	5520.4	5331.6	5012.5	4701.2	4558.2	4568.5
45°	5474.5	5505.1	5681.2	5862.4	5951.8	5890.5	5671.0	5367.3	5004.9	4882.4	4833.9
47.5°	5765.4	5826.7	5997.7	6184.0	6321.8	6326.9	6056.4	5688.9	5306.0	5145.3	5142.7
50°	5962.0	6051.3	6219.7	6431.6	6633.2	6712.3	6441.8	6046.2	5635.3	5464.3	5446.4
52.5°	6069.2	6161.0	6329.5	6658.7	6883.3	7005.8	6878.2	6380.5	6020.7	5842.0	5813.9
55°	5939.0	6000.2	6275.9	6737.8	7084.9	7286.6	7202.3	6842.5	6403.5	6258.0	6283.5
57.5°	5385.2	5512.8	5852.2	6429.0	7079.8	7575.0	7567.3	7278.9	6845.0	6707.2	6712.3
60°	4433.2	4540.4	4958.9	5765.4	6794.0	7692.4	7962.9	7702.6	7340.2	7179.4	7174.3
62.5°	3129.0	3264.3	3749.2	4629.7	5951.8	7529.0	8417.2	8236.0	7825.1	7707.7	7751.1
65°	1750.8	1832.5	2281.7	3078.0	4535.3	6630.6	8498.9	8789.8	8317.7	8139.0	8146.7
67.5°	936.7	967.3	1176.6	1615.5	2774.3	5112.1	7674.5	9108.8	8851.1	8542.2	8493.8
70°	643.2	653.4	707.0	826.9	1311.8	3057.5	5788.4	8539.7	9251.8	8830.6	8912.3
72.5°	543.6	538.5	551.3	564.0	686.5	1368.0	3397.0	6571.9	8733.7	8575.4	8544.8
75°	472.2	469.6	474.7	462.0	477.3	602.3	1503.3	4096.3	6393.3	7136.0	7250.8
77.5°	390.5	393.0	395.6	382.8	377.7	398.1	604.9	1799.3	3146.9	3473.6	3746.6
80°	296.1	301.2	321.6	308.8	288.4	291.0	357.3	602.3	903.5	819.3	844.8
82.5°	201.6	204.2	247.6	232.3	216.9	196.5	229.7	311.4	352.2	268.0	234.8
85°	142.9	140.4	160.8	148.0	137.8	99.5	137.8	176.1	211.8	132.7	120.0
87.5°	33.2	33.2	66.4	53.6	51.0	40.8	53.6	68.9	91.9	58.7	53.6
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°	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6	2424.6
2.5°	2470.5	2447.6	2447.6	2442.5	2422.0	2416.9	2399.1	2404.2	2391.4	2378.7
5°	2557.3	2526.7	2526.7	2483.3	2442.5	2437.4	2416.9	2416.9	2396.5	2401.6
7.5°	2677.3	2649.2	2603.3	2565.0	2508.8	2485.9	2447.6	2442.5	2437.4	2427.2
10°	2820.2	2784.5	2738.5	2659.4	2613.5	2570.1	2531.8	2478.2	2465.4	2468.0
12.5°	3014.2	2958.0	2858.5	2789.6	2730.9	2674.7	2618.6	2539.4	2521.6	2529.2
15°	3152.0	3080.5	2981.0	2955.5	2876.3	2807.4	2715.6	2626.2	2595.6	2587.9
17.5°	3264.3	3205.6	3146.9	3108.6	3044.8	2960.6	2833.0	2730.9	2662.0	2654.3
20°	3356.2	3279.6	3266.8	3289.8	3210.7	3154.5	2998.8	2873.8	2781.9	2743.6
22.5°	3412.3	3363.8	3399.5	3420.0	3414.9	3320.4	3159.6	3014.2	2899.3	2863.6
25°	3473.6	3417.4	3545.0	3613.9	3631.8	3476.1	3351.1	3159.6	3047.3	3024.4
27.5°	3504.2	3524.6	3672.6	3818.1	3805.3	3685.4	3516.9	3345.9	3256.6	3215.8
30°	3593.5	3626.7	3851.3	4014.6	4017.2	3899.8	3772.2	3578.2	3478.7	3460.8
32.5°	3754.3	3795.1	4035.0	4208.6	4239.2	4149.9	4022.3	3902.3	3800.2	3759.4
35°	3876.8	3981.4	4252.0	4410.2	4491.9	4438.3	4366.8	4241.8	4134.6	4098.9
37.5°	4052.9	4198.4	4458.7	4673.1	4765.0	4759.9	4706.3	4571.0	4481.7	4451.1
40°	4305.6	4451.1	4688.4	4971.7	5142.7	5135.0	5104.4	4999.8	4867.1	4851.8
42.5°	4573.6	4693.5	5002.3	5326.5	5571.5	5546.0	5464.3	5341.8	5249.9	5229.5
45°	4833.9	5020.2	5306.0	5722.1	5905.8	5969.6	5872.6	5663.4	5558.7	5546.0
47.5°	5160.6	5308.6	5665.9	6038.5	6311.6	6321.8	6155.9	5962.0	5770.5	5811.4
50°	5451.5	5648.0	6010.5	6418.8	6745.5	6628.1	6416.3	6173.8	6036.0	5982.4
52.5°	5762.9	6002.8	6423.9	6839.9	7021.1	6903.7	6559.2	6288.6	6079.4	6056.4
55°	6217.2	6342.2	6893.5	7212.5	7271.2	7023.7	6515.8	6133.0	5862.4	5796.1
57.5°	6679.1	6824.6	7307.0	7582.6	7521.4	6957.3	6235.1	5642.9	5288.2	5193.7
60°	7146.2	7324.8	7730.6	7983.3	7666.8	6500.5	5441.3	4678.2	4264.7	4180.5
62.5°	7666.8	7899.1	8261.5	8350.8	7235.5	5597.0	4318.3	3376.6	2958.0	2817.6
65°	8128.8	8366.1	8812.8	8274.3	6319.3	4175.4	2792.1	1929.5	1620.7	1508.4
67.5°	8509.1	8777.1	8996.5	7322.3	4627.2	2445.0	1454.8	1015.8	900.9	860.1
70°	8810.2	9256.9	8230.9	5382.6	2644.1	1191.9	786.1	668.7	653.4	643.2
72.5°	8547.4	8488.7	6145.7	3106.0	1158.7	655.9	569.1	551.3	548.7	551.3
75°	6990.5	6235.1	3675.2	1350.1	581.9	474.7	472.2	464.5	477.3	477.3
77.5°	3391.9	2965.7	1536.4	579.4	382.8	372.6	385.4	385.4	385.4	385.4
80°	786.1	870.3	548.7	352.2	278.2	278.2	306.3	308.8	296.1	291.0
82.5°	268.0	357.3	301.2	222.0	183.8	206.7	232.3	237.4	196.5	199.1
85°	132.7	209.3	163.3	127.6	94.4	127.6	150.6	158.2	135.3	130.2
87.5°	61.3	91.9	61.3	43.4	33.2	45.9	43.4	35.7	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)