

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: P480029

Luminaire Tested: **IFLD-S-SA3B-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480029
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

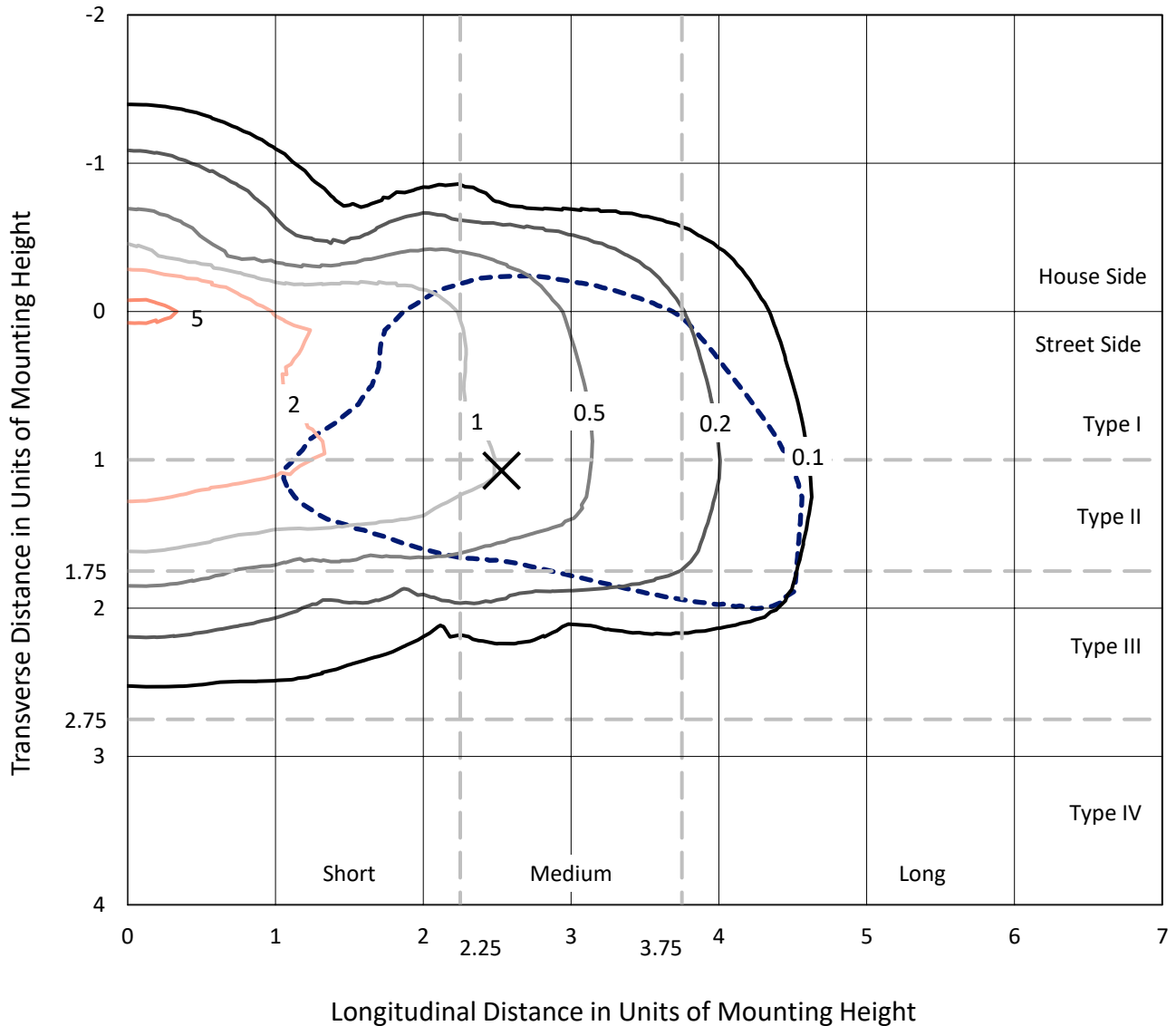
Lumens per Lamp: N/A
Luminaire Lumens: 15449.1 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4
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

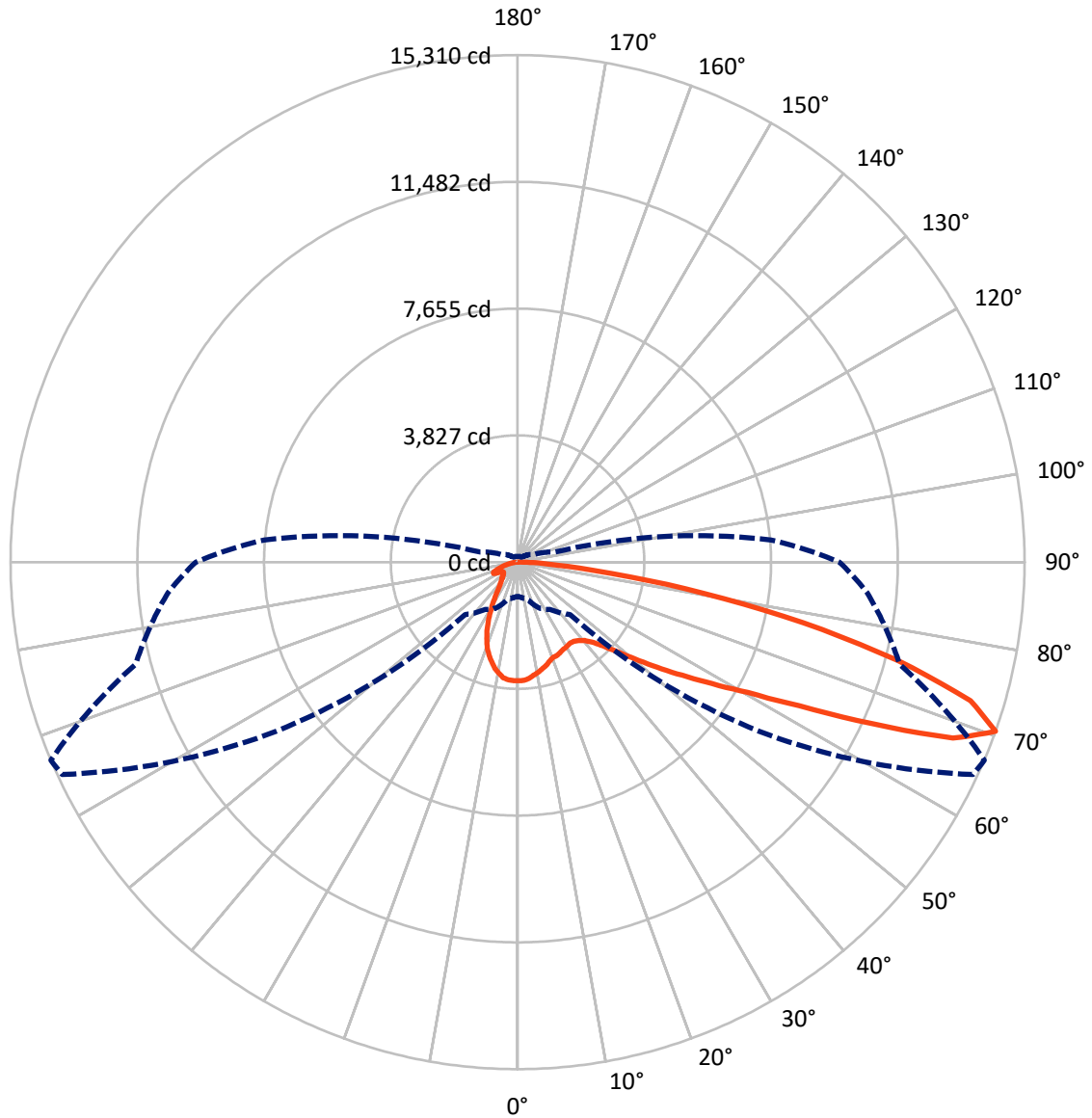
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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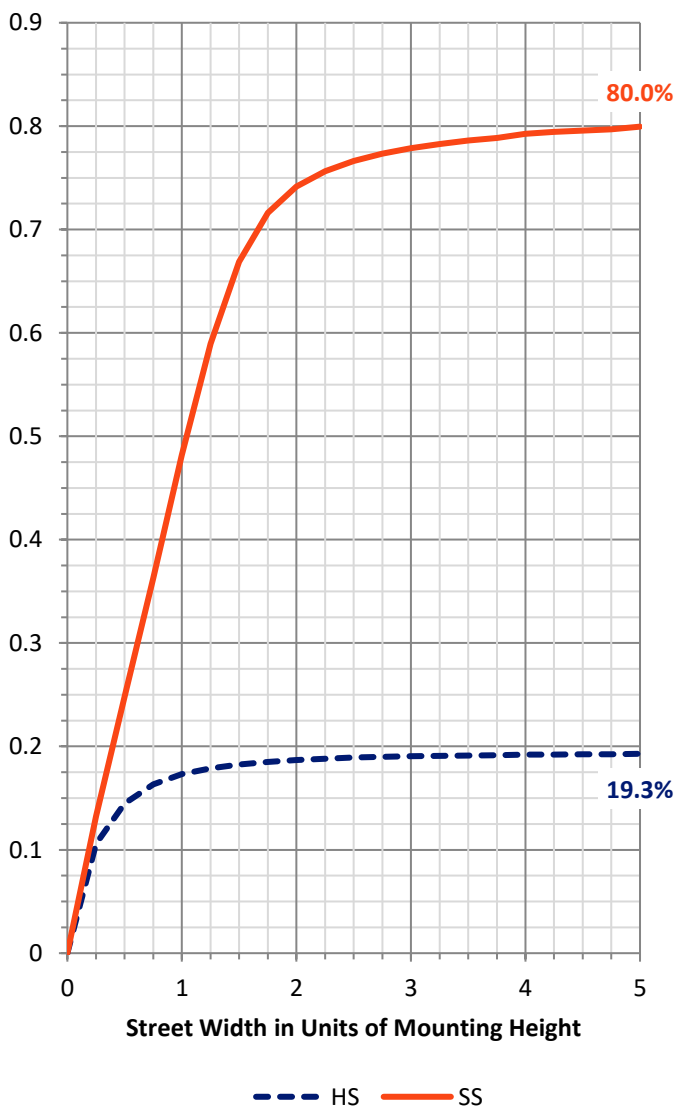
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3008.8	0.0	3008.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12440.2	0.0	12440.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	15449.1	0.0	15449.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.0	2.0
10°-20°	747.3	4.8
20°-30°	1009.2	6.5
30°-40°	1350.4	8.7
40°-50°	1985.8	12.9
50°-60°	3095.4	20.0
60°-70°	3813.0	24.7
70°-80°	2694.2	17.4
80°-90°	441.6	2.9
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°	15449.1	100.0
0°-180°	15449.1	100.0

Coefficient of Utilization

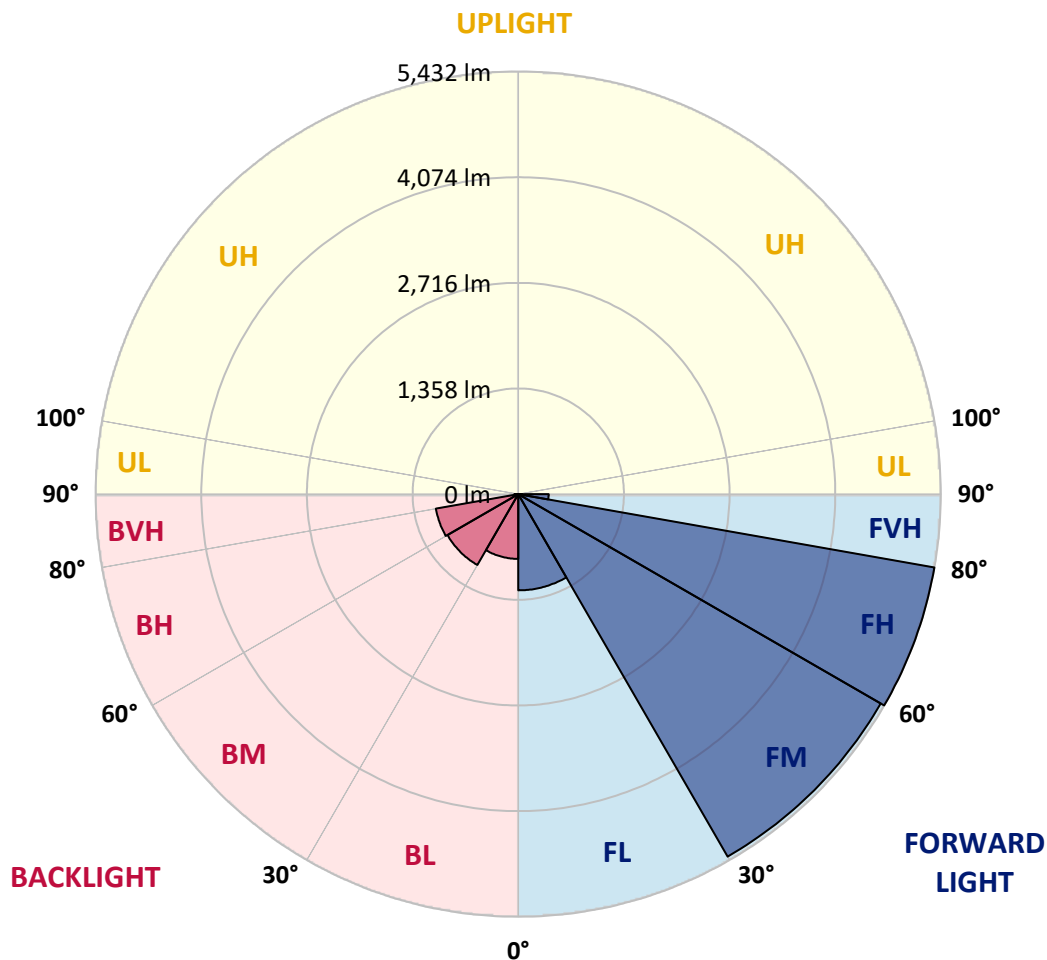


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1236.6	8.0			
FM (30°-60°)	5380.6	34.8			
FH (60°-80°)	5432.4	35.2			G3/7500
FVH (80°-90°)	390.7	2.5			G3/500
BL (0°-30°)	832.0	5.4	B2/1000		
BM (30°-60°)	1051.1	6.8	B2/2500		
BH (60°-80°)	1074.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	50.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4
2.5°	3330.1	3367.7	3381.4	3401.9	3455.0	3494.3	3518.3	3545.6	3578.1	3605.5	3622.6
5°	3097.5	3118.0	3150.5	3172.8	3239.5	3345.5	3417.3	3533.6	3530.2	3573.0	3638.0
7.5°	2871.7	2892.3	2907.6	2952.1	3047.9	3143.7	3275.4	3463.5	3449.8	3549.0	3650.0
10°	2731.5	2716.1	2721.2	2796.5	2871.7	2979.5	3145.4	3337.0	3386.6	3540.5	3684.2
12.5°	2599.8	2582.7	2623.7	2671.6	2764.0	2861.5	3059.9	3232.6	3307.9	3509.7	3699.6
15°	2517.7	2505.7	2557.0	2577.5	2687.0	2803.3	2943.6	3153.9	3236.0	3472.1	3675.6
17.5°	2471.5	2481.8	2500.6	2545.0	2615.2	2714.4	2868.3	3100.9	3136.8	3425.9	3670.5
20°	2480.1	2492.0	2493.7	2512.6	2560.4	2637.4	2794.8	3044.5	3068.4	3417.3	3684.2
22.5°	2548.5	2531.4	2538.2	2526.2	2539.9	2599.8	2738.3	2969.2	3061.6	3345.5	3655.1
25°	2651.1	2627.1	2623.7	2582.7	2557.0	2574.1	2728.1	2950.4	3010.3	3323.3	3653.4
27.5°	2832.4	2796.5	2796.5	2734.9	2630.6	2603.2	2699.0	2919.6	2972.6	3302.7	3614.0
30°	3006.9	3006.9	3008.6	2921.3	2805.0	2669.9	2711.0	2907.6	2941.9	3241.2	3561.0
32.5°	3218.9	3213.8	3205.3	3162.5	2982.9	2781.1	2769.1	2892.3	2909.4	3220.6	3545.6
35°	3425.9	3412.2	3478.9	3441.3	3258.3	2998.3	2829.0	2899.1	2936.7	3189.9	3497.7
37.5°	3581.5	3590.1	3728.6	3752.6	3595.2	3244.6	2998.3	2967.5	3003.4	3234.3	3497.7
40°	3783.4	3817.6	3947.6	4027.9	3932.2	3569.6	3266.8	3082.1	3107.8	3333.5	3573.0
42.5°	4048.5	4077.5	4243.5	4347.8	4320.4	3983.5	3531.9	3321.6	3301.0	3499.4	3685.9
45°	4399.1	4404.2	4571.9	4715.5	4772.0	4416.2	3952.7	3624.3	3607.2	3785.1	3892.8
47.5°	4816.4	4811.3	4915.6	5069.6	5221.8	4932.7	4436.7	4084.4	4022.8	4193.9	4236.6
50°	5220.1	5197.8	5221.8	5418.5	5711.0	5579.3	5025.1	4647.1	4585.5	4679.6	4753.2
52.5°	5442.4	5469.8	5404.8	5664.8	6230.9	6343.8	5805.0	5319.3	5266.3	5312.4	5440.7
55°	5286.8	5343.2	5300.5	5546.8	6458.4	7276.0	6814.2	6097.5	6029.1	6012.0	6222.4
57.5°	4624.9	4727.5	4736.0	5126.0	6379.7	7997.7	8233.8	7016.0	6913.4	6738.9	6956.1
60°	3550.8	3653.4	3732.1	4193.9	5705.8	8428.8	9879.2	8322.7	7984.1	7532.5	7662.5
62.5°	2488.6	2558.7	2637.4	2921.3	4399.1	8175.6	11302.2	10163.1	9538.8	8368.9	8531.4
65°	1813.0	1867.7	1948.1	2115.7	2702.4	6764.6	11962.4	12349.0	11757.2	9432.8	9412.2
67.5°	1364.9	1399.1	1505.1	1773.7	1872.9	4178.5	11278.3	14658.0	14179.1	10614.6	10120.3
70°	1033.1	1062.1	1161.3	1529.1	1749.7	2240.6	8897.4	15172.8	15309.6	11940.2	10595.8
72.5°	711.5	744.0	855.2	1274.2	1665.9	1777.1	5584.4	13784.0	14302.2	12485.8	10086.1
75°	436.1	458.4	523.4	966.4	1653.9	1737.7	3073.6	11295.4	11844.4	11536.5	8823.9
77.5°	307.9	306.2	318.1	566.1	1433.3	1748.0	1895.1	8276.5	8810.2	8502.3	5988.0
80°	224.1	225.8	237.7	338.7	973.2	1777.1	1493.2	5543.3	5702.4	4433.3	2362.0
82.5°	135.1	142.0	171.0	229.2	585.0	1604.3	1380.3	3080.4	2882.0	1423.0	649.9
85°	71.8	71.8	100.9	145.4	311.3	1197.3	1329.0	1465.8	1228.1	441.3	241.2
87.5°	17.1	17.1	29.1	58.2	124.9	573.0	906.5	583.2	466.9	148.8	99.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4
2.5°	3615.7	3595.2	3620.9	3569.6	3528.5	3530.2	3466.9	3463.5	3455.0	3410.5	3425.9
5°	3656.8	3639.7	3610.6	3554.2	3463.5	3372.9	3318.1	3248.0	3218.9	3203.5	3210.4
7.5°	3696.1	3665.3	3581.5	3502.9	3362.6	3191.6	3092.4	2998.3	2878.6	2864.9	2840.9
10°	3706.4	3641.4	3533.6	3366.0	3179.6	2989.7	2764.0	2589.5	2497.2	2425.3	2398.0
12.5°	3691.0	3663.6	3456.7	3241.2	2959.0	2661.4	2398.0	2151.7	1980.6	1891.7	1867.7
15°	3689.3	3641.4	3371.2	3051.3	2690.4	2302.2	1927.6	1631.7	1452.1	1378.6	1378.6
17.5°	3691.0	3576.4	3270.2	2859.8	2374.0	1848.9	1436.7	1193.8	1094.6	1084.4	1092.9
20°	3656.8	3528.5	3164.2	2634.0	1977.2	1388.8	1043.3	944.1	944.1	957.8	962.9
22.5°	3626.0	3456.7	2996.6	2355.2	1573.6	1005.7	848.3	819.3	851.8	875.7	886.0
25°	3583.2	3396.8	2825.6	2066.1	1197.3	810.7	737.2	744.0	774.8	817.6	814.1
27.5°	3521.7	3292.5	2622.0	1730.9	891.1	699.5	680.7	684.2	716.6	735.5	732.0
30°	3451.6	3186.4	2433.9	1397.4	706.4	641.4	639.7	648.2	653.4	663.6	661.9
32.5°	3362.6	3046.2	2233.8	1086.1	636.3	608.9	602.1	596.9	602.1	600.3	595.2
35°	3299.3	2970.9	2030.2	827.8	596.9	579.8	574.7	566.1	559.3	549.0	547.3
37.5°	3282.2	2895.7	1816.4	675.6	566.1	557.6	540.5	525.1	516.5	511.4	508.0
40°	3272.0	2846.1	1607.8	593.5	540.5	531.9	511.4	490.9	482.3	477.2	478.9
42.5°	3307.9	2818.7	1395.7	552.5	518.2	502.9	480.6	456.7	455.0	451.5	456.7
45°	3434.4	2852.9	1199.0	523.4	496.0	470.4	441.3	429.3	427.6	424.2	427.6
47.5°	3721.8	2938.4	1031.4	504.6	472.1	449.8	419.0	401.9	400.2	398.5	398.5
50°	4118.6	3201.8	891.1	482.3	456.7	425.9	396.8	378.0	374.6	367.7	367.7
52.5°	4741.2	3644.8	807.3	470.4	429.3	403.7	372.9	352.3	343.8	336.9	336.9
55°	5442.4	4193.9	791.9	449.8	400.2	376.3	348.9	328.4	319.8	311.3	307.9
57.5°	6241.2	4920.8	901.4	436.1	379.7	348.9	318.1	299.3	292.5	283.9	280.5
60°	6985.2	5646.0	1241.7	415.6	360.9	323.3	292.5	273.7	265.1	256.6	256.6
62.5°	7845.5	6543.9	1818.1	415.6	343.8	295.9	265.1	251.4	246.3	237.7	236.0
65°	8863.2	7472.7	2238.9	441.3	338.7	272.0	239.5	225.8	220.6	215.5	213.8
67.5°	9638.0	8006.3	1925.9	509.7	360.9	251.4	213.8	205.2	201.8	196.7	193.3
70°	9720.1	7681.3	1161.3	550.7	383.1	230.9	191.6	183.0	183.0	177.9	174.5
72.5°	8982.9	6815.9	781.6	490.9	347.2	207.0	169.3	162.5	159.1	155.6	153.9
75°	7517.1	5781.1	617.4	391.7	266.8	171.0	147.1	140.3	135.1	133.4	130.0
77.5°	5049.0	3757.7	456.7	306.2	196.7	138.5	123.1	116.3	111.2	109.5	104.3
80°	1939.6	1431.6	294.2	222.3	138.5	109.5	97.5	90.7	87.2	82.1	78.7
82.5°	571.3	463.5	164.2	136.8	88.9	75.3	70.1	65.0	59.9	54.7	53.0
85°	236.0	212.1	100.9	71.8	54.7	44.5	41.0	35.9	30.8	27.4	23.9
87.5°	109.5	90.7	46.2	27.4	18.8	10.3	5.1	1.7	0.0	0.0	0.0
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)