

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: P481278

Luminaire Tested: **IFLD-S-SA3C-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481278
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

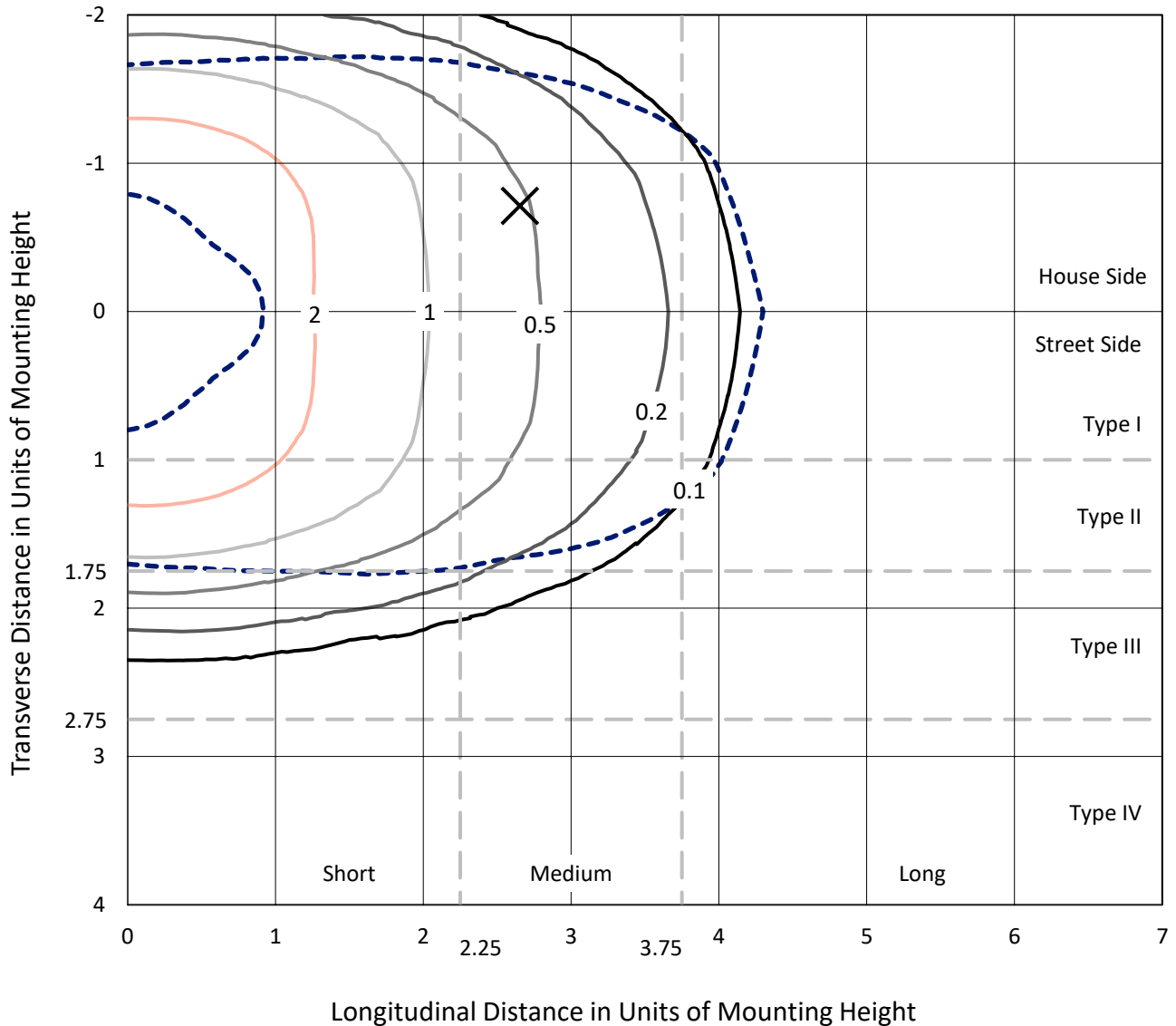
Lumens per Lamp: N/A
Luminaire Lumens: 21818 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 160.8
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

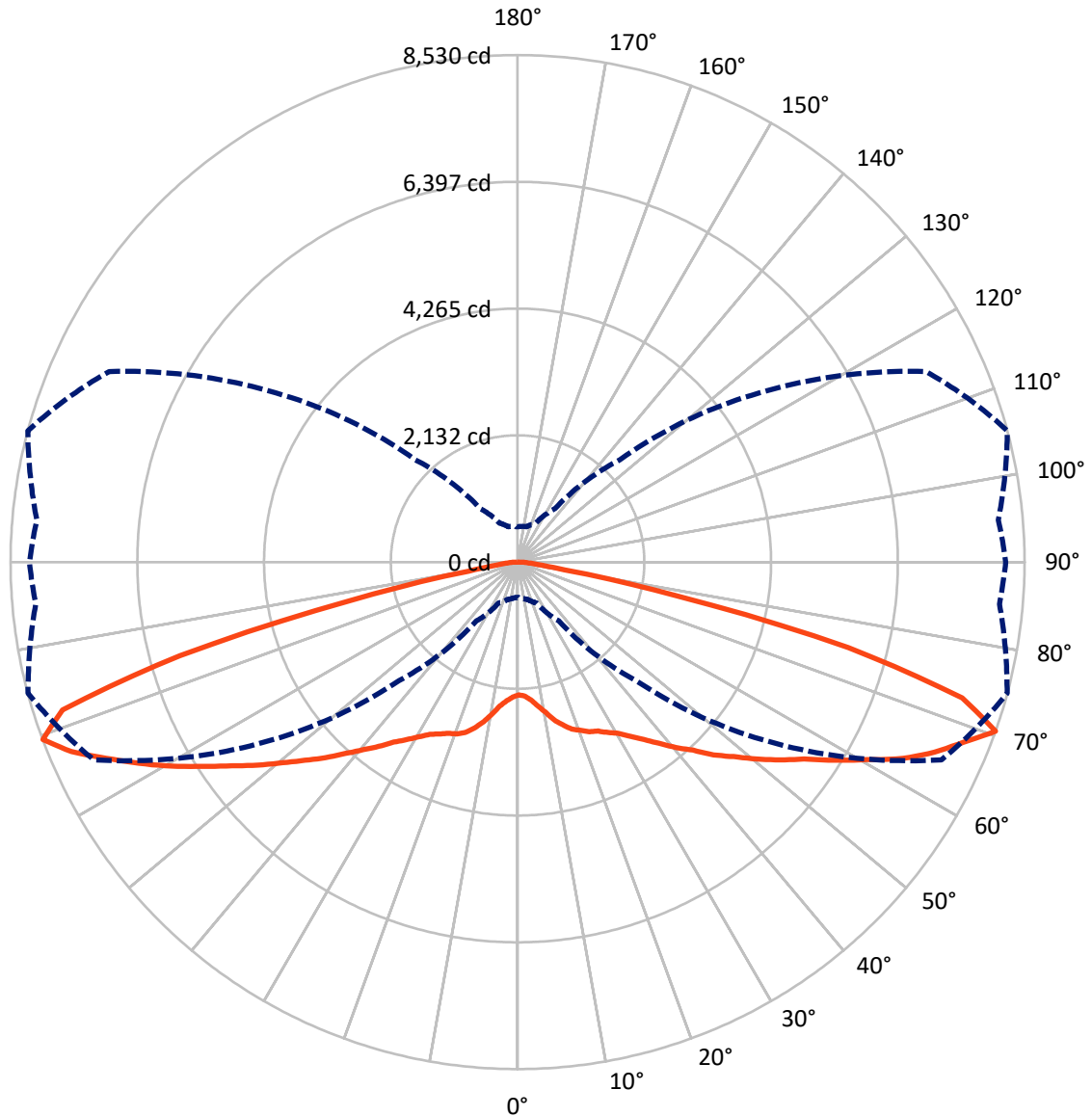
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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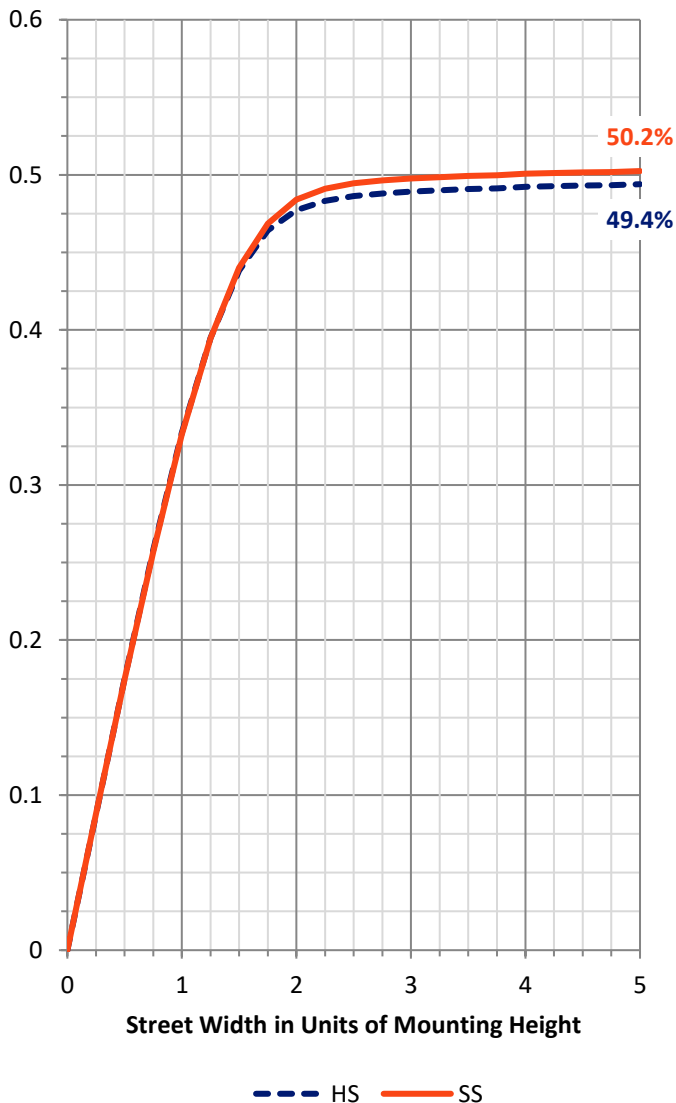
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10831.4	0.0	10831.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	10986.6	0.0	10986.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	21818.0	0.0	21818.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.4	1.0
10°-20°	757.2	3.5
20°-30°	1466.1	6.7
30°-40°	2479.8	11.4
40°-50°	3956.0	18.1
50°-60°	5414.9	24.8
60°-70°	5104.0	23.4
70°-80°	2248.4	10.3
80°-90°	169.2	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°	21818.0	100.0
0°-180°	21818.0	100.0



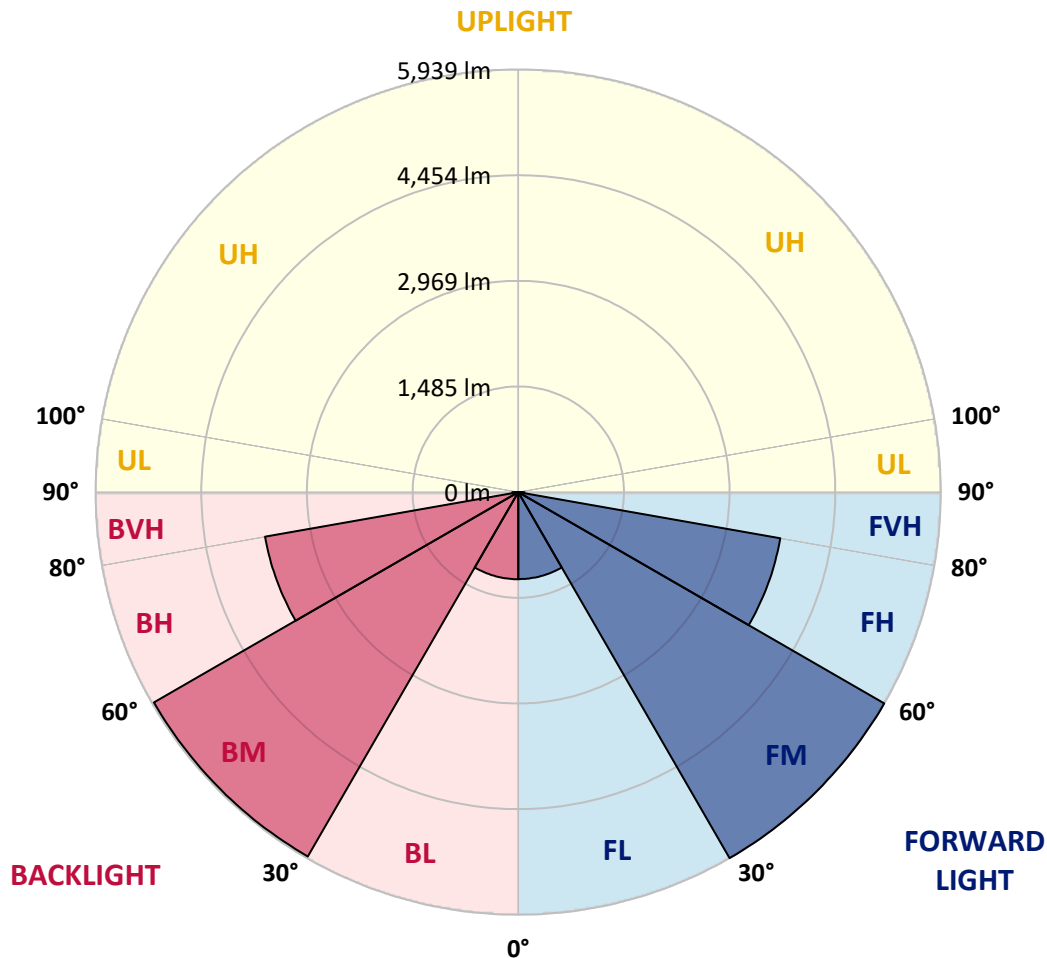
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.2	5.6			
FM (30°-60°)	5938.7	27.2			
FH (60°-80°)	3739.4	17.1			G2/5000
FVH (80°-90°)	86.4	0.4			G1/100
BL (0°-30°)	1223.5	5.6	B3/2500		
BM (30°-60°)	5912.1	27.1	B4/8500		
BH (60°-80°)	3613.0	16.6	B4/5000		G4/5000
BVH (80°-90°)	82.8	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°	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1
2.5°	2220.0	2220.0	2217.7	2229.4	2241.2	2245.9	2255.3	2257.7	2271.8	2260.0	2283.5
5°	2213.0	2210.6	2229.4	2257.7	2257.7	2288.2	2307.0	2332.9	2340.0	2354.1	2358.8
7.5°	2262.4	2257.7	2248.3	2278.8	2304.7	2351.7	2377.6	2422.3	2438.7	2457.6	2478.7
10°	2292.9	2292.9	2283.5	2337.6	2361.1	2424.6	2481.1	2525.8	2589.3	2610.4	2612.8
12.5°	2297.6	2304.7	2332.9	2403.5	2469.3	2551.6	2594.0	2678.6	2742.1	2782.1	2796.2
15°	2368.2	2354.1	2384.7	2481.1	2577.5	2650.4	2725.7	2786.8	2878.5	2930.3	2963.2
17.5°	2431.7	2417.6	2474.0	2589.3	2688.0	2800.9	2866.8	2932.6	2998.5	3045.5	3047.8
20°	2532.8	2544.6	2594.0	2718.6	2847.9	2946.7	3022.0	3033.7	3066.7	3134.9	3123.1
22.5°	2657.5	2648.0	2751.5	2887.9	3029.0	3111.3	3153.7	3123.1	3106.6	3179.5	3196.0
25°	2782.1	2810.3	2904.4	3031.4	3200.7	3311.2	3323.0	3238.3	3177.2	3203.1	3196.0
27.5°	2972.6	2977.3	3076.1	3226.6	3398.2	3494.7	3487.6	3367.7	3250.1	3252.4	3257.1
30°	3217.2	3193.6	3301.8	3438.2	3607.6	3694.6	3706.3	3534.7	3377.1	3330.0	3341.8
32.5°	3452.3	3480.6	3574.6	3729.8	3854.5	3903.9	3878.0	3725.1	3520.5	3457.0	3464.1
35°	3753.4	3748.7	3878.0	4009.7	4103.8	4113.2	4092.0	3868.6	3675.8	3593.4	3560.5
37.5°	4075.5	4117.9	4202.5	4310.7	4409.5	4414.2	4299.0	4120.2	3882.7	3746.3	3786.3
40°	4435.4	4482.4	4543.5	4701.1	4774.0	4698.8	4581.2	4338.9	4092.0	3972.1	3990.9
42.5°	4752.8	4774.0	4898.7	5084.4	5119.7	5086.8	4912.8	4618.8	4331.9	4200.2	4209.6
45°	5044.5	5072.7	5235.0	5401.9	5484.2	5427.8	5225.5	4945.7	4611.7	4498.9	4454.2
47.5°	5312.6	5369.0	5526.6	5698.2	5825.2	5829.9	5580.7	5242.0	4889.2	4741.1	4738.7
50°	5493.6	5576.0	5731.2	5926.4	6112.1	6185.0	5935.8	5571.2	5192.6	5035.1	5018.6
52.5°	5592.4	5677.1	5832.3	6135.7	6342.6	6455.5	6337.9	5879.3	5547.7	5383.1	5357.2
55°	5472.5	5528.9	5782.9	6208.6	6528.4	6714.2	6636.6	6305.0	5900.5	5766.4	5790.0
57.5°	4962.2	5079.7	5392.5	5924.0	6523.7	6979.9	6972.9	6707.1	6307.3	6180.3	6185.0
60°	4085.0	4183.7	4569.4	5312.6	6260.3	7088.1	7337.4	7097.5	6763.6	6615.4	6610.7
62.5°	2883.2	3007.9	3454.7	4266.0	5484.2	6937.6	7756.0	7589.0	7210.4	7102.2	7142.2
65°	1613.3	1688.5	2102.4	2836.2	4179.0	6109.8	7831.3	8099.4	7664.3	7499.7	7506.7
67.5°	863.1	891.3	1084.1	1488.6	2556.3	4710.5	7071.7	8393.3	8155.8	7871.2	7826.6
70°	592.6	602.0	651.4	762.0	1208.8	2817.4	5333.7	7868.9	8525.0	8137.0	8212.2
72.5°	500.9	496.2	508.0	519.7	632.6	1260.5	3130.2	6055.7	8047.6	7901.8	7873.6
75°	435.1	432.7	437.4	425.7	439.8	555.0	1385.2	3774.5	5891.1	6575.4	6681.3
77.5°	359.8	362.2	364.5	352.8	348.1	366.9	557.4	1658.0	2899.7	3200.7	3452.3
80°	272.8	277.5	296.3	284.6	265.7	268.1	329.2	555.0	832.5	754.9	778.4
82.5°	185.8	188.1	228.1	214.0	199.9	181.1	211.7	286.9	324.5	246.9	216.4
85°	131.7	129.3	148.2	136.4	127.0	91.7	127.0	162.3	195.2	122.3	110.5
87.5°	30.6	30.6	61.1	49.4	47.0	37.6	49.4	63.5	84.7	54.1	49.4
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°	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1	2234.1
2.5°	2276.5	2255.3	2255.3	2250.6	2231.8	2227.1	2210.6	2215.3	2203.6	2191.8
5°	2356.4	2328.2	2328.2	2288.2	2250.6	2245.9	2227.1	2227.1	2208.3	2213.0
7.5°	2467.0	2441.1	2398.8	2363.5	2311.8	2290.6	2255.3	2250.6	2245.9	2236.5
10°	2598.7	2565.7	2523.4	2450.5	2408.2	2368.2	2332.9	2283.5	2271.8	2274.1
12.5°	2777.4	2725.7	2633.9	2570.4	2516.4	2464.6	2412.9	2340.0	2323.5	2330.6
15°	2904.4	2838.5	2746.8	2723.3	2650.4	2586.9	2502.2	2419.9	2391.7	2384.7
17.5°	3007.9	2953.8	2899.7	2864.4	2805.6	2728.0	2610.4	2516.4	2452.9	2445.8
20°	3092.5	3022.0	3010.2	3031.4	2958.5	2906.7	2763.3	2648.0	2563.4	2528.1
22.5°	3144.3	3099.6	3132.5	3151.3	3146.6	3059.6	2911.4	2777.4	2671.6	2638.6
25°	3200.7	3149.0	3266.6	3330.0	3346.5	3203.1	3087.8	2911.4	2808.0	2786.8
27.5°	3228.9	3247.7	3384.1	3518.2	3506.4	3395.9	3240.7	3083.1	3000.8	2963.2
30°	3311.2	3341.8	3548.8	3699.3	3701.6	3593.4	3475.9	3297.1	3205.4	3188.9
32.5°	3459.4	3497.0	3718.1	3878.0	3906.2	3823.9	3706.3	3595.8	3501.7	3464.1
35°	3572.3	3668.7	3918.0	4063.8	4139.0	4089.7	4023.8	3908.6	3809.8	3776.9
37.5°	3734.5	3868.6	4108.5	4306.0	4390.7	4386.0	4336.6	4211.9	4129.6	4101.4
40°	3967.4	4101.4	4320.1	4581.2	4738.7	4731.7	4703.5	4607.0	4484.7	4470.6
42.5°	4214.3	4324.8	4609.4	4908.1	5133.8	5110.3	5035.1	4922.2	4837.5	4818.7
45°	4454.2	4625.9	4889.2	5272.6	5441.9	5500.7	5411.3	5218.5	5122.1	5110.3
47.5°	4755.2	4891.6	5220.8	5564.2	5815.8	5825.2	5672.4	5493.6	5317.3	5354.9
50°	5023.3	5204.4	5538.3	5914.6	6215.6	6107.4	5912.2	5688.8	5561.8	5512.5
52.5°	5310.2	5531.3	5919.3	6302.6	6469.6	6361.4	6043.9	5794.7	5601.8	5580.7
55°	5728.8	5844.0	6352.0	6646.0	6700.1	6472.0	6004.0	5651.2	5401.9	5340.8
57.5°	6154.5	6288.5	6733.0	6987.0	6930.5	6410.8	5745.3	5199.7	4872.8	4785.8
60°	6584.8	6749.5	7123.4	7356.2	7064.6	5989.9	5013.9	4310.7	3929.7	3852.1
62.5°	7064.6	7278.6	7612.5	7694.9	6667.2	5157.3	3979.1	3111.3	2725.7	2596.3
65°	7490.3	7709.0	8120.5	7624.3	5822.9	3847.4	2572.8	1777.9	1493.3	1389.9
67.5°	7840.7	8087.6	8289.8	6747.1	4263.7	2253.0	1340.5	936.0	830.2	792.5
70°	8118.2	8529.7	7584.3	4959.8	2436.4	1098.3	724.3	616.2	602.0	592.6
72.5°	7875.9	7821.9	5663.0	2862.1	1067.7	604.4	524.4	508.0	505.6	508.0
75°	6441.4	5745.3	3386.5	1244.1	536.2	437.4	435.1	428.0	439.8	439.8
77.5°	3125.4	2732.7	1415.7	533.8	352.8	343.4	355.1	355.1	355.1	355.1
80°	724.3	801.9	505.6	324.5	256.3	256.3	282.2	284.6	272.8	268.1
82.5°	246.9	329.2	277.5	204.6	169.3	190.5	214.0	218.7	181.1	183.4
85°	122.3	192.8	150.5	117.6	87.0	117.6	138.8	145.8	124.6	119.9
87.5°	56.4	84.7	56.4	40.0	30.6	42.3	40.0	32.9	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)