

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: P484043

Luminaire Tested: **IFLD-S-SA2D-750-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

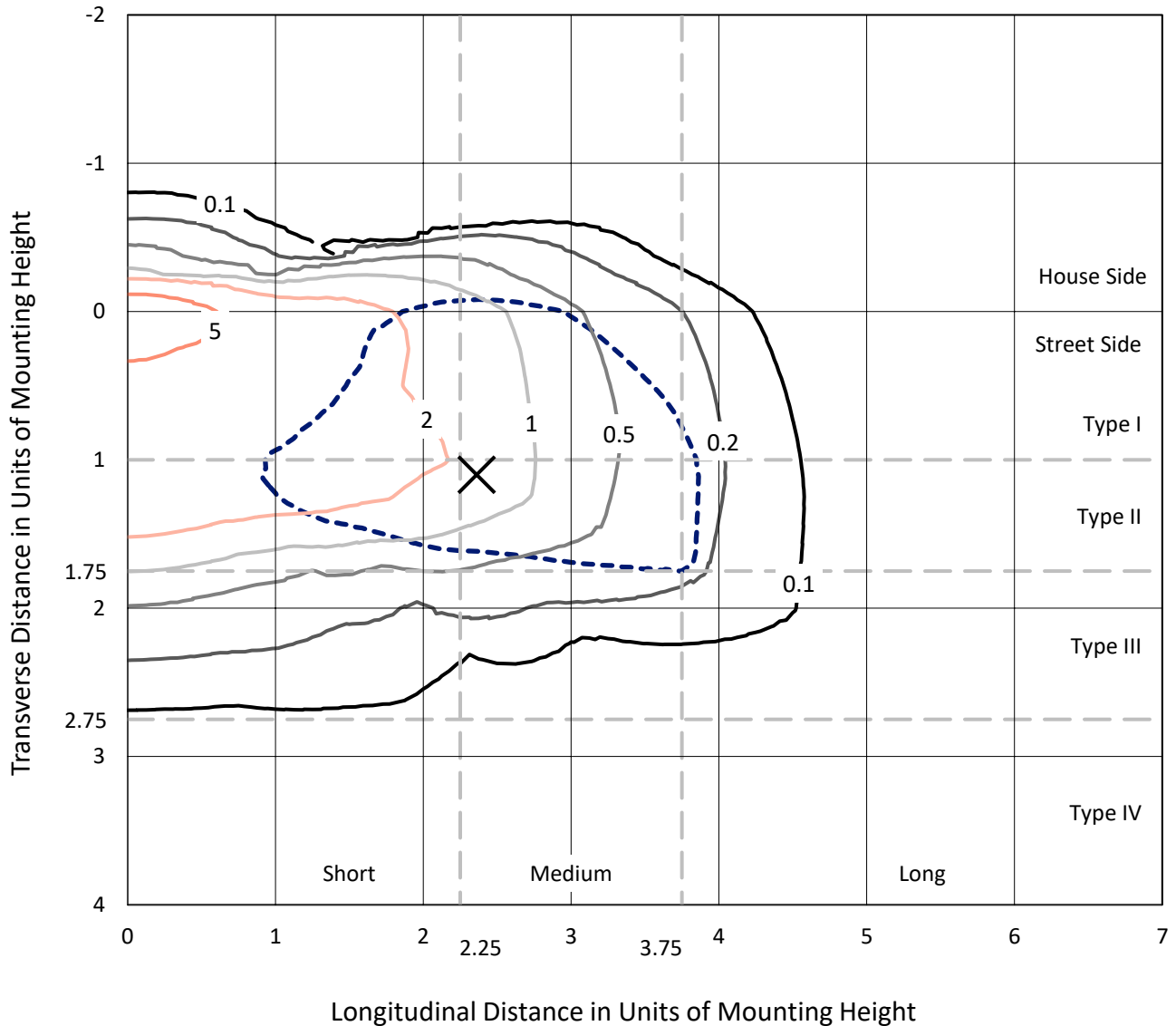
Lumens per Lamp: N/A
Luminaire Lumens: 13166.9 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

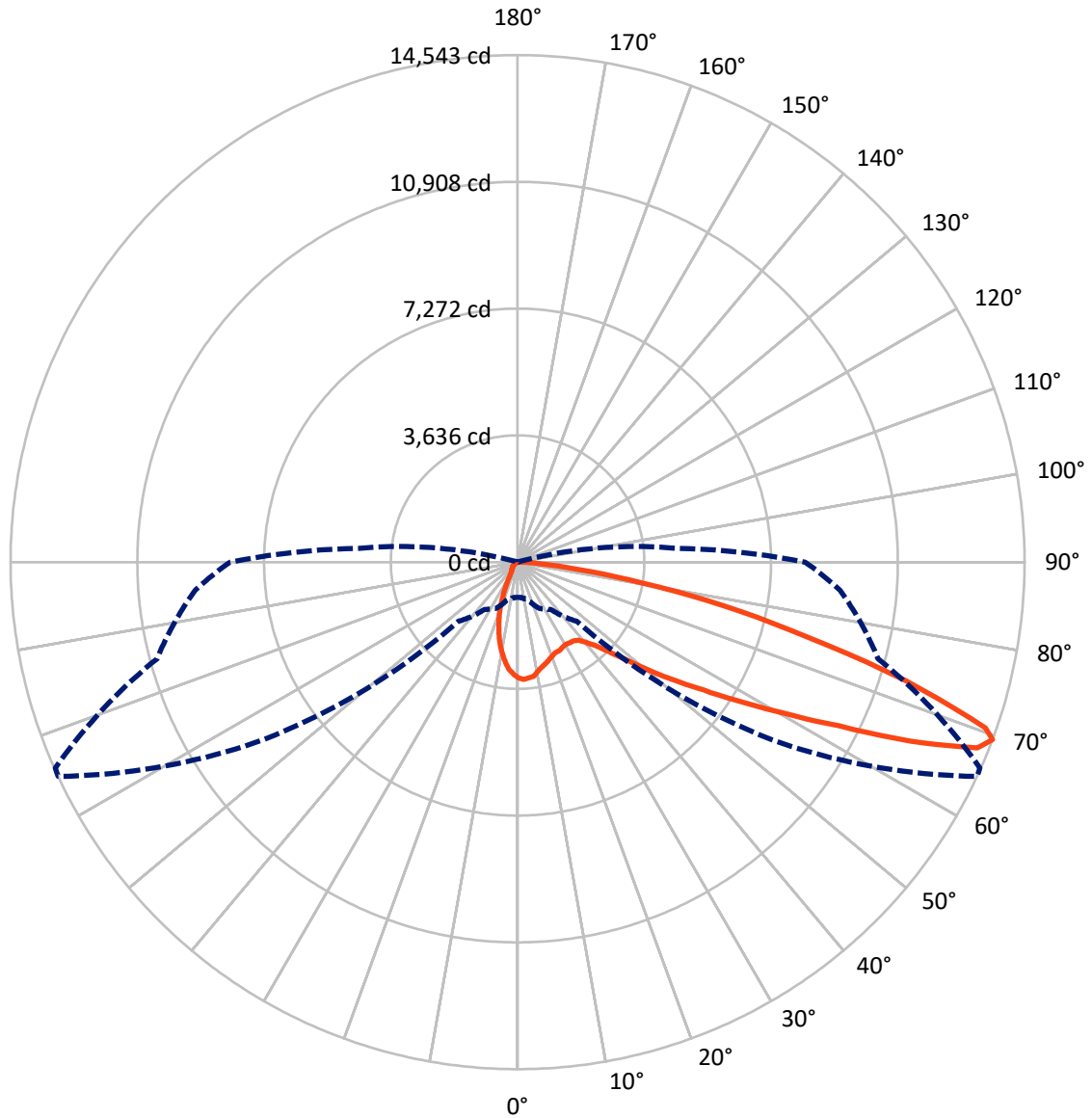
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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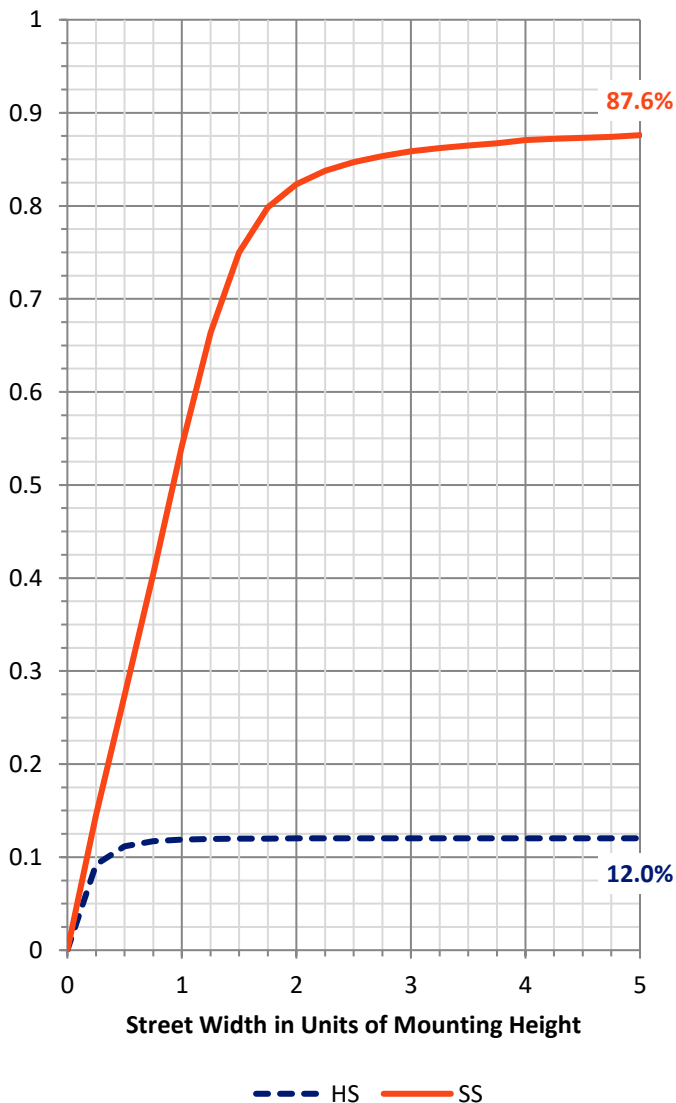
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1597.2	0.0	1597.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	11569.7	0.0	11569.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	13166.9	0.0	13166.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	2.1
10°-20°	594.4	4.5
20°-30°	827.5	6.3
30°-40°	1172.7	8.9
40°-50°	1848.1	14.0
50°-60°	2998.8	22.8
60°-70°	3349.1	25.4
70°-80°	1885.9	14.3
80°-90°	218.8	1.7
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°	13166.9	100.0
0°-180°	13166.9	100.0



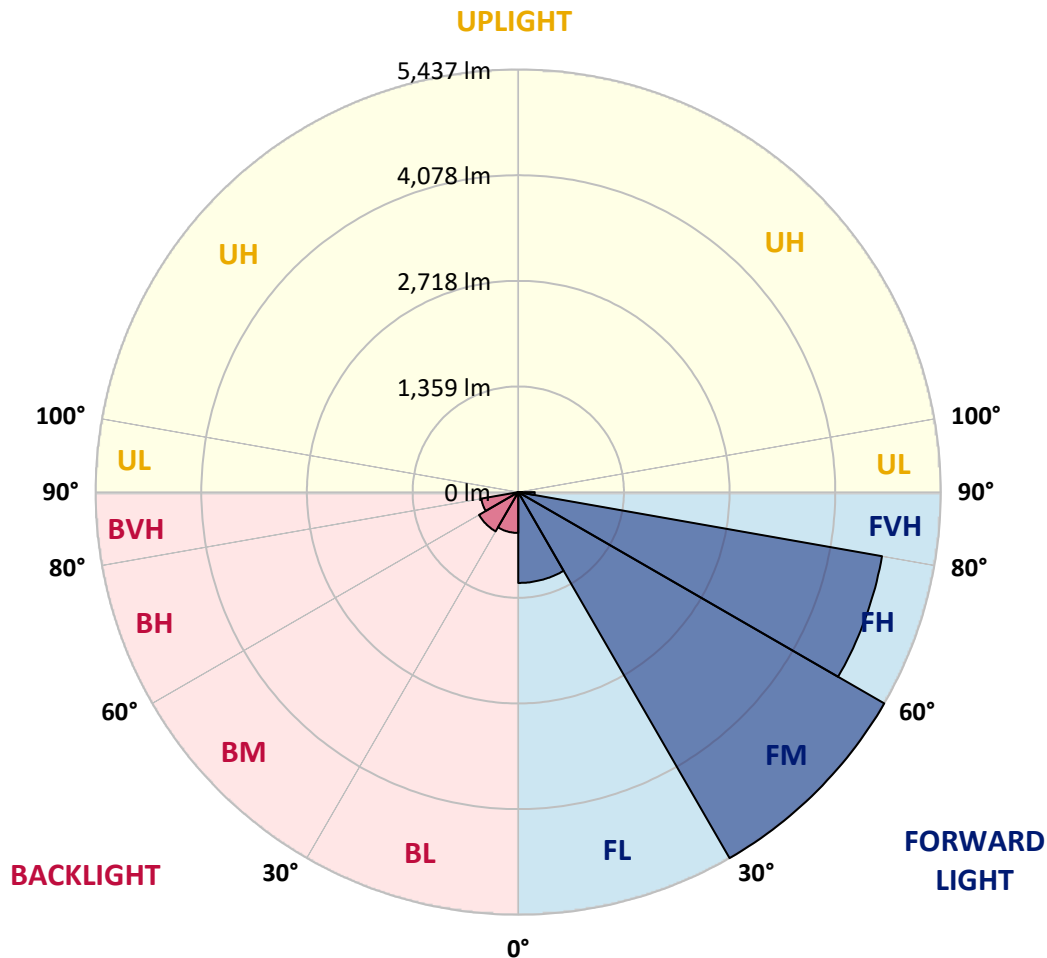
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1168.4	8.9			
FM (30°-60°)	5436.7	41.3			
FH (60°-80°)	4751.7	36.1			G2/5000
FVH (80°-90°)	212.8	1.6			G2/225
BL (0°-30°)	525.1	4.0	B2/1000		
BM (30°-60°)	582.8	4.4	B1/1000		
BH (60°-80°)	483.3	3.7	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7
2.5°	3197.1	3222.0	3229.1	3254.0	3266.4	3319.7	3349.9	3367.6	3358.8	3378.3	3380.1
5°	2969.8	2955.6	2992.9	3019.5	3076.3	3168.7	3262.8	3335.7	3369.4	3401.4	3396.1
7.5°	2726.4	2719.3	2756.6	2817.0	2868.5	2980.4	3131.4	3310.8	3303.7	3381.9	3404.9
10°	2559.5	2566.6	2579.0	2639.4	2715.8	2829.5	3017.7	3184.7	3222.0	3387.2	3433.4
12.5°	2406.7	2419.2	2442.3	2504.4	2593.2	2710.5	2893.4	3088.8	3145.6	3357.0	3449.3
15°	2357.0	2328.6	2374.8	2420.9	2513.3	2618.1	2772.6	3016.0	3040.8	3321.5	3476.0
17.5°	2316.1	2298.4	2319.7	2357.0	2454.7	2539.9	2685.6	2937.8	2984.0	3307.3	3472.4
20°	2328.6	2312.6	2321.5	2349.9	2394.3	2474.2	2609.2	2863.2	2912.9	3241.5	3467.1
22.5°	2364.1	2376.5	2360.5	2367.7	2381.9	2422.7	2568.4	2809.9	2852.6	3229.1	3497.3
25°	2524.0	2502.6	2481.3	2472.4	2389.0	2406.7	2555.9	2806.4	2836.6	3184.7	3472.4
27.5°	2690.9	2673.2	2664.3	2612.8	2499.1	2445.8	2557.7	2756.6	2797.5	3166.9	3442.2
30°	2893.4	2916.5	2881.0	2818.8	2660.7	2529.3	2577.2	2731.8	2788.6	3099.4	3422.7
32.5°	3106.5	3119.0	3136.7	3090.6	2886.3	2655.4	2635.9	2754.9	2758.4	3099.4	3378.3
35°	3348.1	3330.3	3376.5	3380.1	3200.7	2879.2	2747.8	2770.8	2808.1	3085.2	3362.3
37.5°	3555.9	3586.1	3639.4	3724.7	3539.9	3195.4	2921.8	2845.4	2861.4	3150.9	3374.7
40°	3783.3	3813.5	3934.2	4019.5	3914.7	3550.6	3186.5	3019.5	3031.9	3248.6	3438.7
42.5°	4033.7	4092.3	4236.2	4385.4	4357.0	4001.7	3527.5	3275.3	3270.0	3492.0	3570.1
45°	4373.0	4451.1	4607.4	4779.7	4804.6	4518.6	3982.2	3657.2	3674.9	3809.9	3841.9
47.5°	4845.4	4841.9	4994.6	5186.5	5330.3	5055.0	4525.7	4170.5	4168.7	4312.6	4245.1
50°	5301.9	5303.7	5344.5	5566.6	5939.6	5799.2	5198.9	4852.5	4833.0	4904.0	4795.7
52.5°	5513.3	5488.4	5458.2	5726.4	6408.5	6737.1	6051.5	5625.2	5609.2	5566.6	5538.1
55°	5291.2	5300.1	5298.4	5577.2	6655.4	7726.4	7145.6	6476.0	6449.3	6316.1	6355.2
57.5°	4579.0	4550.6	4612.7	5047.9	6372.9	8401.3	8710.4	7548.8	7479.5	7037.2	6948.4
60°	3408.5	3417.4	3468.9	3982.2	5671.4	8543.4	10207.7	8808.1	8509.7	7545.2	7422.7
62.5°	2380.1	2362.3	2381.9	2669.6	4055.0	7975.1	11220.1	10339.2	10051.4	8122.5	8051.4
65°	1703.4	1680.3	1758.4	1934.3	2435.1	6097.6	11364.0	12378.2	12120.7	9044.3	8873.8
67.5°	1225.6	1222.0	1312.6	1632.3	1730.0	3511.5	10298.3	14225.5	14069.1	10138.5	9374.7
69°	1014.2	1016.0	1103.0	1461.8	1651.9	2397.8	8861.4	14543.4	14515.0	10703.3	9280.6
70°	884.5	891.6	992.9	1360.6	1619.9	1971.6	7639.4	14230.8	14202.4	10813.4	8969.7
72.5°	545.3	550.6	683.8	1090.6	1540.0	1609.2	4568.3	11642.9	11740.6	10309.0	7728.2
75°	261.1	262.9	358.8	788.6	1484.9	1525.7	2447.6	8591.4	8797.4	8323.2	6039.0
77.5°	138.5	138.5	172.3	419.2	1202.5	1435.2	1452.9	6060.3	6230.9	5262.8	3433.4
80°	69.3	71.0	104.8	218.5	746.0	1406.7	1135.0	3614.5	3706.9	2147.4	1069.3
82.5°	26.6	28.4	49.7	131.4	387.2	1188.3	996.4	1778.0	1754.9	502.7	261.1
85°	3.6	3.6	17.8	78.2	165.2	524.0	822.4	742.4	717.6	110.1	126.1
87.5°	0.0	0.0	3.6	23.1	49.7	152.8	317.9	204.3	227.4	30.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7	3319.7
2.5°	3371.2	3333.9	3277.1	3222.0	3163.4	3092.3	3014.2	2985.8	2936.0	2932.5	2960.9
5°	3367.6	3307.3	3207.8	3090.6	2923.6	2797.5	2660.7	2561.3	2484.9	2435.1	2447.6
7.5°	3385.4	3312.6	3140.3	2888.1	2673.2	2422.7	2211.3	2065.7	1932.5	1866.8	1859.7
10°	3357.0	3259.3	3007.1	2653.6	2337.5	1987.5	1678.5	1483.1	1284.2	1211.4	1214.9
12.5°	3373.0	3236.2	2863.2	2412.1	1976.9	1522.2	1152.7	886.3	699.8	639.4	632.3
15°	3383.6	3186.5	2724.7	2122.5	1577.3	1037.3	667.8	502.7	444.0	433.4	431.6
17.5°	3342.8	3126.1	2529.3	1836.6	1168.7	630.5	444.0	410.3	399.6	392.5	389.0
20°	3341.0	3090.6	2360.5	1543.5	779.7	429.8	383.7	371.2	355.2	349.9	349.9
22.5°	3310.8	3016.0	2158.1	1222.0	497.3	369.4	344.6	325.0	307.3	300.2	298.4
25°	3301.9	2928.9	1968.0	918.3	378.3	330.4	305.5	277.1	255.8	245.1	239.8
27.5°	3277.1	2854.3	1776.2	646.5	330.4	294.8	262.9	232.7	207.8	191.8	190.1
30°	3188.2	2776.2	1563.0	447.6	300.2	261.1	225.6	190.1	165.2	154.5	151.0
32.5°	3150.9	2703.4	1330.4	344.6	273.5	230.9	190.1	158.1	138.5	127.9	126.1
35°	3106.5	2596.8	1104.8	300.2	248.7	200.7	159.9	133.2	117.2	108.3	108.3
37.5°	3111.9	2511.5	893.4	271.8	222.0	172.3	136.8	113.7	99.5	90.6	90.6
40°	3095.9	2444.0	694.5	246.9	197.2	147.4	115.5	95.9	83.5	74.6	72.8
42.5°	3168.7	2426.3	524.0	225.6	172.3	126.1	99.5	81.7	69.3	58.6	58.6
45°	3291.3	2454.7	408.5	206.0	147.4	108.3	85.3	67.5	55.1	48.0	46.2
47.5°	3618.1	2566.6	319.7	190.1	126.1	94.1	71.0	55.1	44.4	37.3	35.5
50°	4092.3	2817.0	271.8	167.0	106.6	79.9	58.6	42.6	35.5	28.4	26.6
52.5°	4767.3	3238.0	246.9	147.4	88.8	65.7	46.2	33.7	26.6	21.3	19.5
55°	5502.6	3763.7	223.8	124.3	74.6	53.3	37.3	26.6	19.5	14.2	12.4
57.5°	6076.3	4218.4	204.3	103.0	60.4	42.6	28.4	19.5	14.2	8.9	7.1
60°	6703.3	4538.1	179.4	81.7	49.7	32.0	21.3	14.2	10.7	5.3	5.3
62.5°	7349.8	4912.9	147.4	63.9	39.1	24.9	16.0	10.7	7.1	1.8	1.8
65°	8248.6	5206.0	113.7	49.7	30.2	17.8	12.4	8.9	3.6	0.0	0.0
67.5°	8502.6	5062.1	83.5	39.1	21.3	12.4	8.9	5.3	1.8	0.0	0.0
69°	8248.6	4559.5	72.8	33.7	17.8	10.7	7.1	3.6	1.8	0.0	0.0
70°	7785.0	4168.7	63.9	28.4	16.0	10.7	5.3	3.6	1.8	0.0	0.0
72.5°	6511.5	3197.1	49.7	21.3	12.4	8.9	5.3	3.6	0.0	0.0	0.0
75°	4776.2	1975.1	37.3	16.0	10.7	7.1	5.3	3.6	0.0	0.0	0.0
77.5°	2559.5	721.1	26.6	10.7	7.1	5.3	5.3	3.6	0.0	0.0	0.0
80°	701.6	213.1	19.5	7.1	5.3	3.6	3.6	1.8	0.0	0.0	0.0
82.5°	191.8	55.1	12.4	7.1	5.3	3.6	1.8	0.0	0.0	0.0	0.0
85°	103.0	21.3	7.1	5.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	53.3	7.1	5.3	3.6	3.6	1.8	0.0	0.0	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)