

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: P484260

Luminaire Tested: **IFLD-M-SA4A-722-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484260
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

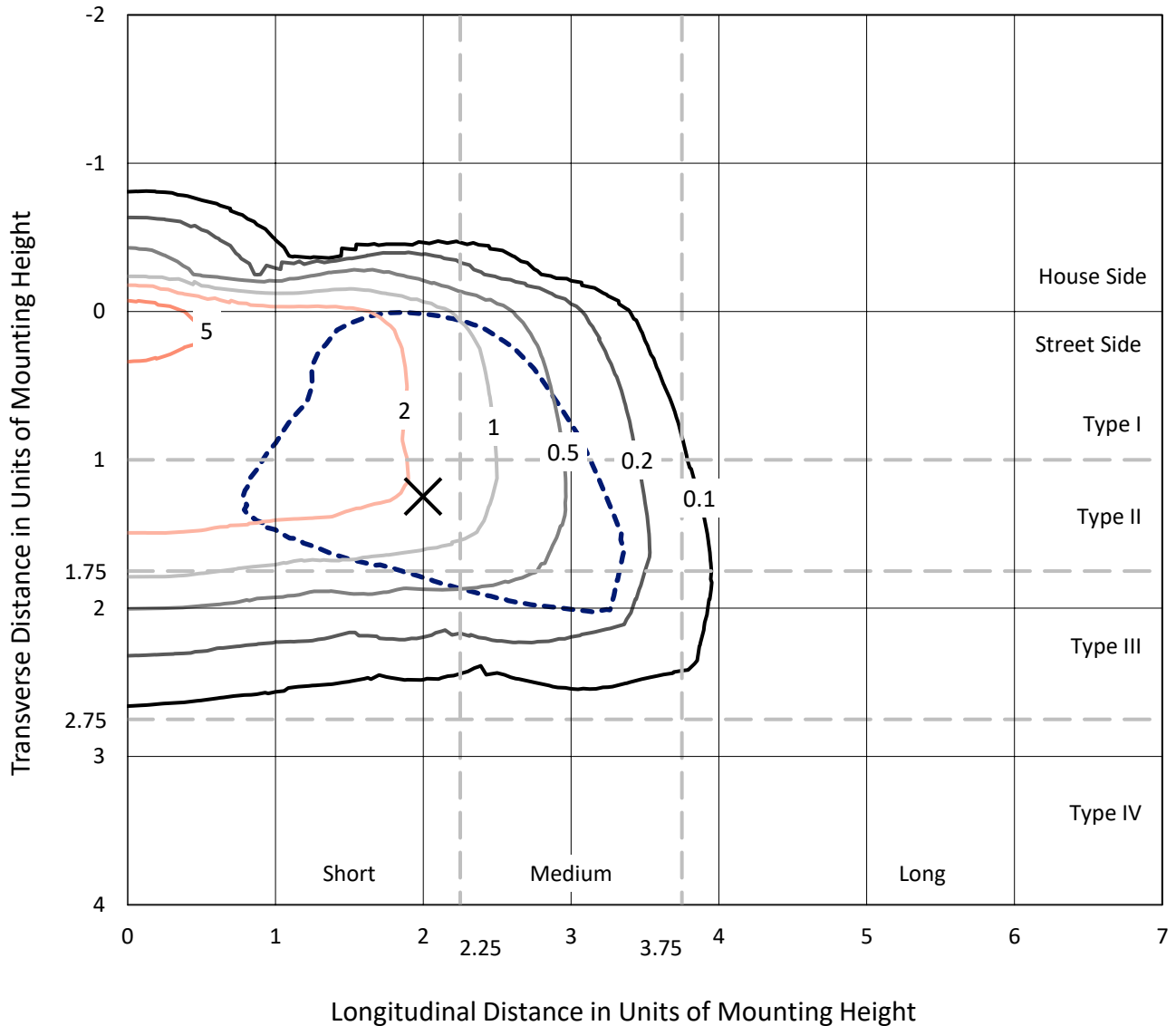
Lumens per Lamp: N/A
Luminaire Lumens: 11376.2 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

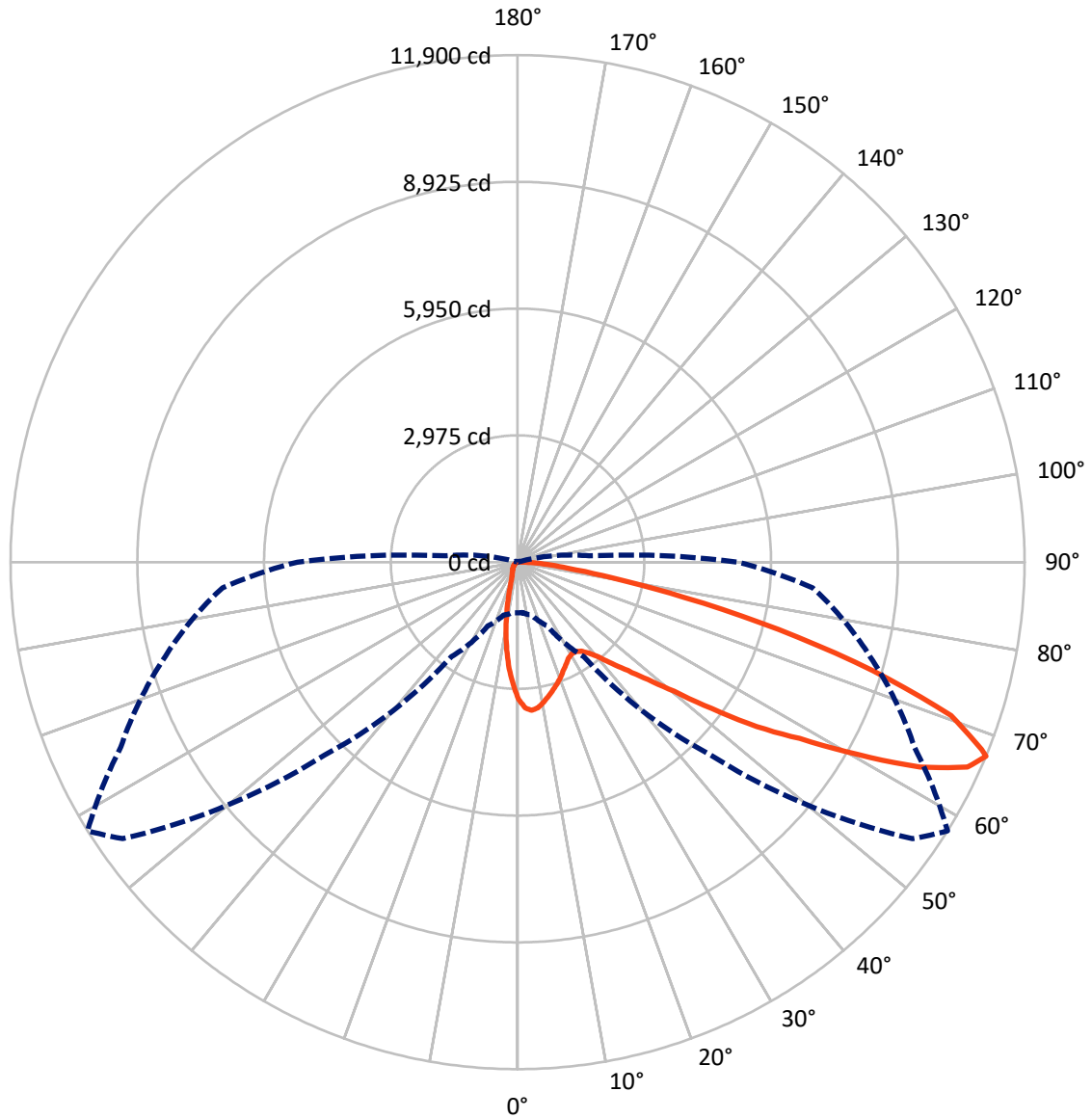
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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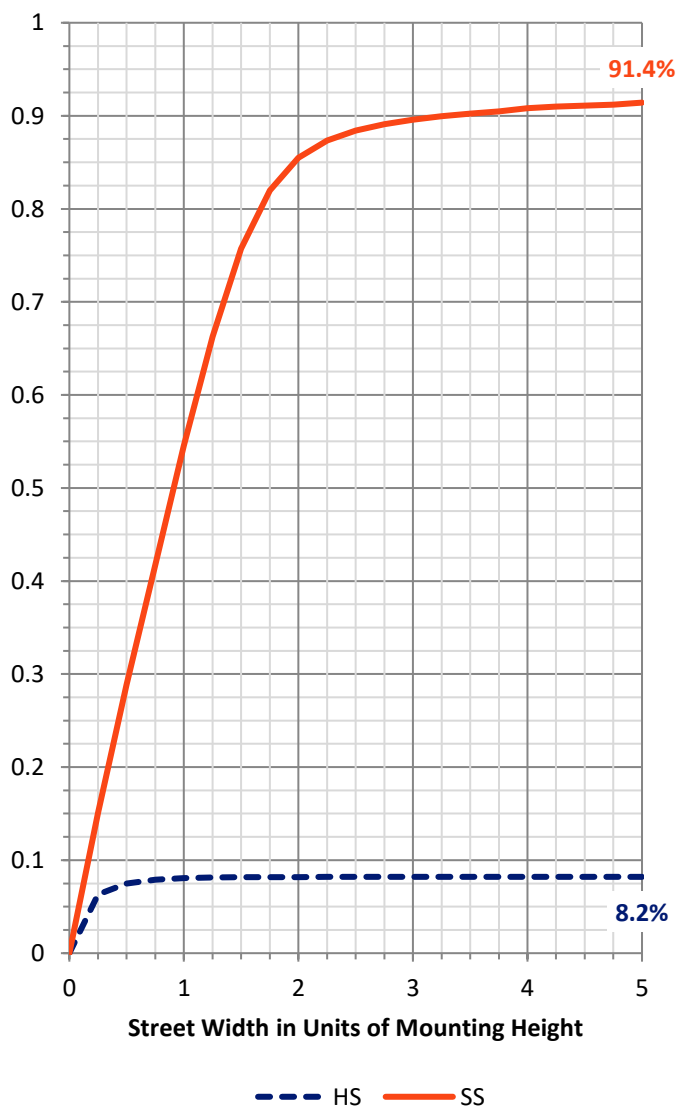
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	940.3	0.0	940.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	10435.9	0.0	10435.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	11376.2	0.0	11376.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.7	2.2
10°-20°	530.4	4.7
20°-30°	703.8	6.2
30°-40°	975.2	8.6
40°-50°	1591.3	14.0
50°-60°	2796.9	24.6
60°-70°	3097.8	27.2
70°-80°	1283.7	11.3
80°-90°	141.3	1.2
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°	11376.2	100.0
0°-180°	11376.2	100.0

Coefficient of Utilization



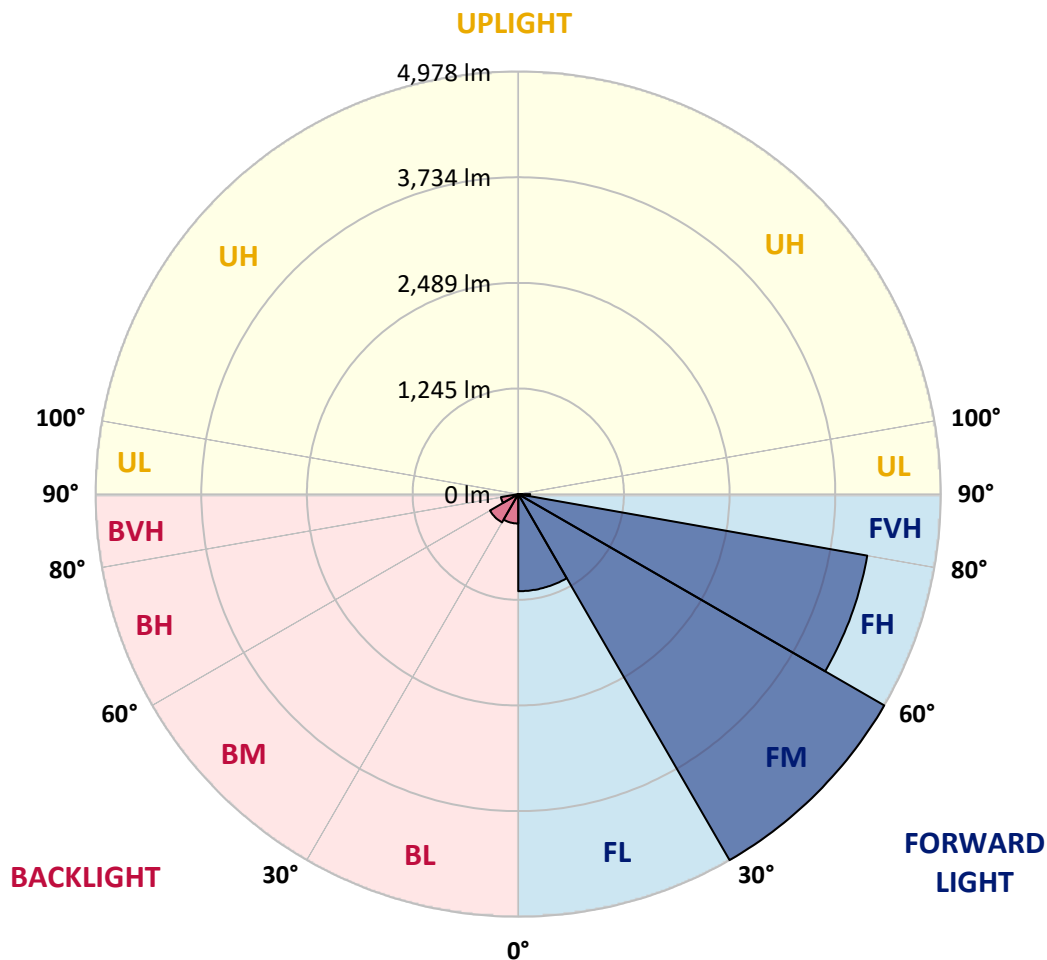
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.6	10.1			
FM (30°-60°)	4978.4	43.8			
FH (60°-80°)	4174.8	36.7			G2/5000
FVH (80°-90°)	139.0	1.2			G2/225
BL (0°-30°)	346.3	3.0	B1/500		
BM (30°-60°)	384.9	3.4	B1/1000		
BH (60°-80°)	206.7	1.8	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0
2.5°	3507.0	3519.0	3529.6	3510.0	3526.6	3502.4	3440.5	3426.9	3416.3	3324.2	3271.4
5°	3505.5	3491.9	3502.4	3511.5	3488.8	3507.0	3491.9	3493.4	3452.6	3369.5	3221.5
7.5°	3271.4	3265.3	3271.4	3315.2	3365.0	3404.3	3426.9	3449.6	3422.4	3298.5	3155.1
10°	2955.7	2985.9	3002.5	3081.1	3158.1	3230.6	3301.6	3343.9	3336.3	3286.5	3082.6
12.5°	2735.2	2726.1	2786.5	2837.9	2914.9	3061.4	3185.3	3224.5	3269.8	3200.4	2987.4
15°	2531.3	2507.1	2543.4	2632.5	2763.9	2880.2	3053.9	3112.8	3170.2	3188.3	2936.1
17.5°	2336.5	2348.5	2386.3	2466.4	2590.2	2753.3	2916.4	3001.0	3138.4	3114.3	2859.0
20°	2242.8	2268.5	2282.1	2322.9	2409.0	2572.1	2815.2	2883.2	3029.7	3112.8	2783.5
22.5°	2247.4	2247.4	2215.6	2239.8	2318.3	2445.2	2677.8	2753.3	2985.9	3034.2	2715.6
25°	2295.7	2265.5	2267.0	2238.3	2271.5	2341.0	2554.0	2646.1	2896.8	3041.8	2679.3
27.5°	2331.9	2325.9	2316.8	2309.3	2267.0	2277.6	2472.4	2547.9	2862.1	3032.7	2623.4
30°	2463.3	2436.1	2427.1	2410.5	2354.6	2303.2	2407.5	2502.6	2834.9	3053.9	2591.7
32.5°	2573.6	2578.1	2585.7	2537.3	2489.0	2362.1	2425.6	2501.1	2815.2	3102.2	2623.4
35°	2712.5	2732.2	2735.2	2720.1	2668.7	2543.4	2501.1	2566.0	2848.5	3188.3	2626.4
37.5°	2924.0	2902.8	2960.2	2966.3	2930.0	2763.9	2676.3	2702.0	2946.6	3325.7	2741.2
40°	3061.4	3087.1	3194.3	3260.8	3198.9	3047.8	2930.0	2925.5	3088.6	3541.7	2883.2
42.5°	3214.0	3271.4	3389.2	3532.6	3525.1	3384.6	3265.3	3245.7	3340.8	3854.3	3108.2
45°	3422.4	3473.7	3638.4	3854.3	3972.1	3852.8	3673.1	3633.8	3647.4	4280.3	3491.9
47.5°	3768.3	3754.7	3991.8	4204.7	4398.1	4305.9	4228.9	4114.1	4103.5	4781.7	4022.0
50°	4159.4	4156.4	4367.8	4609.5	4833.0	5012.8	4884.4	4759.0	4762.0	5462.8	4645.7
52.5°	4531.0	4589.9	4817.9	5058.1	5441.7	5635.0	5758.9	5709.0	5468.9	6071.5	5313.3
55°	4727.3	4778.7	5005.2	5419.0	6024.7	6521.6	6856.9	6814.6	6350.9	6757.2	5971.8
57.5°	4541.5	4576.3	4882.9	5425.1	6432.5	7541.0	7862.7	7809.9	7263.1	7281.3	6767.8
60°	3763.7	3818.1	4274.2	4910.1	6273.9	8326.4	9247.7	9167.7	8093.8	7944.3	7279.7
62.5°	2606.8	2643.1	3017.6	3809.0	5521.7	8599.8	10555.6	10599.4	8969.8	8460.8	7432.3
65°	1688.5	1685.5	1900.0	2436.1	3913.2	7772.1	11328.9	11600.8	9815.6	8539.4	7385.5
67°	1193.2	1188.6	1289.8	1652.3	2709.5	6403.8	11315.3	11899.8	10274.7	8562.0	6952.0
67.5°	1101.0	1096.5	1193.2	1519.4	2445.2	5955.2	11146.2	11745.8	10436.3	8530.3	6761.7
70°	854.8	842.8	879.0	1046.7	1424.2	3851.3	9539.2	10789.7	10101.0	7738.9	5399.4
72.5°	617.7	631.3	688.7	859.4	1117.6	2072.2	7270.7	8725.1	8436.7	5832.9	3431.5
75°	430.4	442.5	534.7	700.8	1025.5	1256.6	4916.1	6328.2	5876.7	3220.0	1462.0
77.5°	225.0	240.1	341.3	560.3	931.9	972.6	2937.6	4012.9	3114.3	1146.3	403.3
80°	104.2	111.8	170.7	397.2	779.3	854.8	1712.7	2232.3	1246.0	256.8	138.9
82.5°	45.3	49.8	78.5	228.1	552.8	747.6	1060.2	1170.5	451.6	83.1	86.1
85°	9.1	10.6	30.2	120.8	267.3	453.1	744.6	694.7	226.5	40.8	68.0
87.5°	0.0	0.0	7.6	34.7	72.5	134.4	315.7	315.7	69.5	21.1	25.7
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°	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0
2.5°	3224.5	3170.2	3050.8	2940.6	2862.1	2773.0	2655.1	2602.3	2582.6	2555.5	2514.7
5°	3140.0	3073.5	2869.6	2664.2	2439.2	2268.5	2087.3	1981.5	1901.5	1851.7	1835.0
7.5°	3020.6	2884.7	2609.8	2280.6	1989.1	1735.4	1460.5	1274.7	1155.4	1107.1	1061.8
10°	2925.5	2748.8	2330.4	1921.1	1533.0	1161.4	851.8	688.7	564.9	518.0	512.0
12.5°	2801.6	2590.2	2069.1	1554.1	1066.3	691.7	471.2	409.3	374.6	368.5	364.0
15°	2698.9	2446.7	1821.4	1203.7	690.2	432.0	367.0	351.9	342.8	339.8	341.3
17.5°	2629.5	2292.7	1567.7	876.0	454.6	353.4	338.3	329.3	324.7	323.2	318.7
20°	2492.0	2162.8	1317.0	613.2	354.9	326.2	314.1	306.6	302.1	300.6	299.0
22.5°	2413.5	1998.2	1066.3	427.4	315.7	296.0	287.0	280.9	273.4	268.8	267.3
25°	2335.0	1877.3	842.8	332.3	287.0	273.4	259.8	252.2	240.1	234.1	232.6
27.5°	2242.8	1758.0	649.4	288.5	258.3	244.7	231.1	219.0	203.9	197.9	194.8
30°	2190.0	1641.7	489.3	258.3	237.1	219.0	202.4	187.3	170.7	160.1	157.1
32.5°	2162.8	1536.0	367.0	235.6	214.5	194.8	173.7	155.6	140.5	131.4	129.9
35°	2129.6	1433.3	288.5	214.5	193.3	172.2	151.0	132.9	117.8	110.3	107.2
37.5°	2164.3	1372.9	240.1	197.9	176.7	152.5	129.9	111.8	99.7	92.1	90.6
40°	2259.4	1323.0	208.4	182.7	160.1	134.4	113.3	95.2	84.6	78.5	75.5
42.5°	2405.9	1323.0	188.8	167.6	145.0	117.8	96.7	83.1	72.5	66.5	64.9
45°	2671.8	1363.8	172.2	152.5	126.9	101.2	83.1	69.5	58.9	52.9	51.4
47.5°	3044.8	1457.5	158.6	138.9	113.3	89.1	72.5	58.9	48.3	42.3	40.8
50°	3546.2	1670.4	145.0	122.3	101.2	77.0	60.4	46.8	37.8	31.7	30.2
52.5°	4171.5	1972.5	131.4	113.3	86.1	64.9	48.3	37.8	28.7	24.2	22.7
55°	4833.0	2342.5	114.8	101.2	74.0	54.4	39.3	28.7	21.1	18.1	16.6
57.5°	5499.1	2628.0	101.2	87.6	60.4	43.8	31.7	22.7	15.1	12.1	10.6
60°	5852.5	2655.1	87.6	72.5	48.3	34.7	24.2	16.6	10.6	7.6	6.0
62.5°	5906.9	2413.5	75.5	58.9	39.3	27.2	16.6	12.1	6.0	3.0	3.0
65°	5627.5	2011.7	64.9	46.8	30.2	19.6	12.1	7.6	3.0	1.5	0.0
67°	5174.4	1685.5	55.9	39.3	24.2	15.1	9.1	4.5	1.5	0.0	0.0
67.5°	4999.2	1594.9	52.9	36.2	22.7	13.6	7.6	4.5	1.5	0.0	0.0
70°	3880.0	1138.8	39.3	25.7	16.6	10.6	6.0	3.0	0.0	0.0	0.0
72.5°	2377.2	666.1	30.2	18.1	12.1	7.6	4.5	1.5	0.0	0.0	0.0
75°	996.8	229.6	25.7	13.6	9.1	4.5	3.0	1.5	0.0	0.0	0.0
77.5°	259.8	86.1	18.1	9.1	6.0	4.5	3.0	1.5	0.0	0.0	0.0
80°	105.7	39.3	12.1	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0
82.5°	69.5	18.1	7.6	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
85°	52.9	10.6	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	22.7	6.0	4.5	3.0	3.0	0.0	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)