

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: P484357

Luminaire Tested: **IFLD-S-SA3A-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484357
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

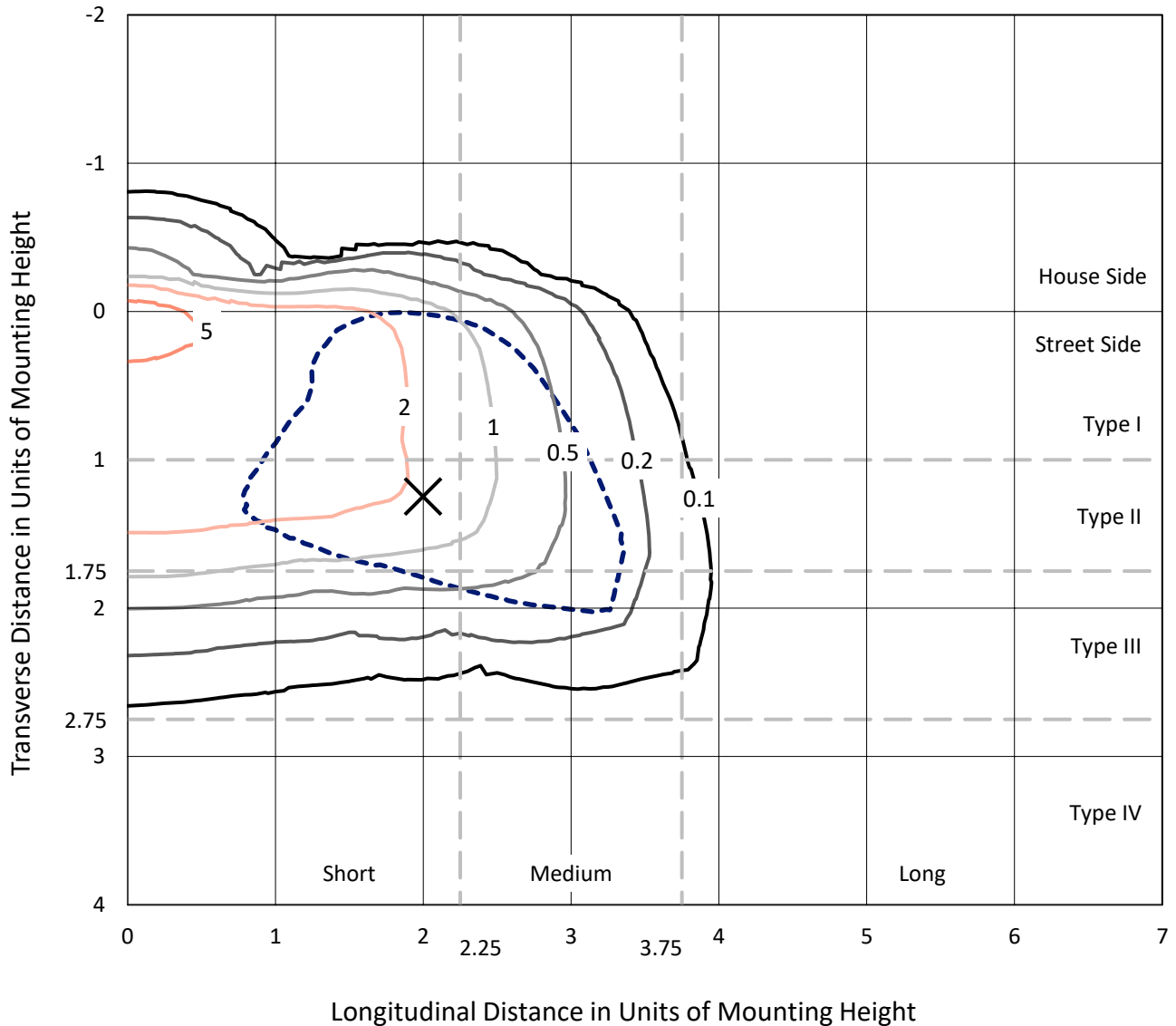
Lumens per Lamp: N/A
Luminaire Lumens: 11348.5 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

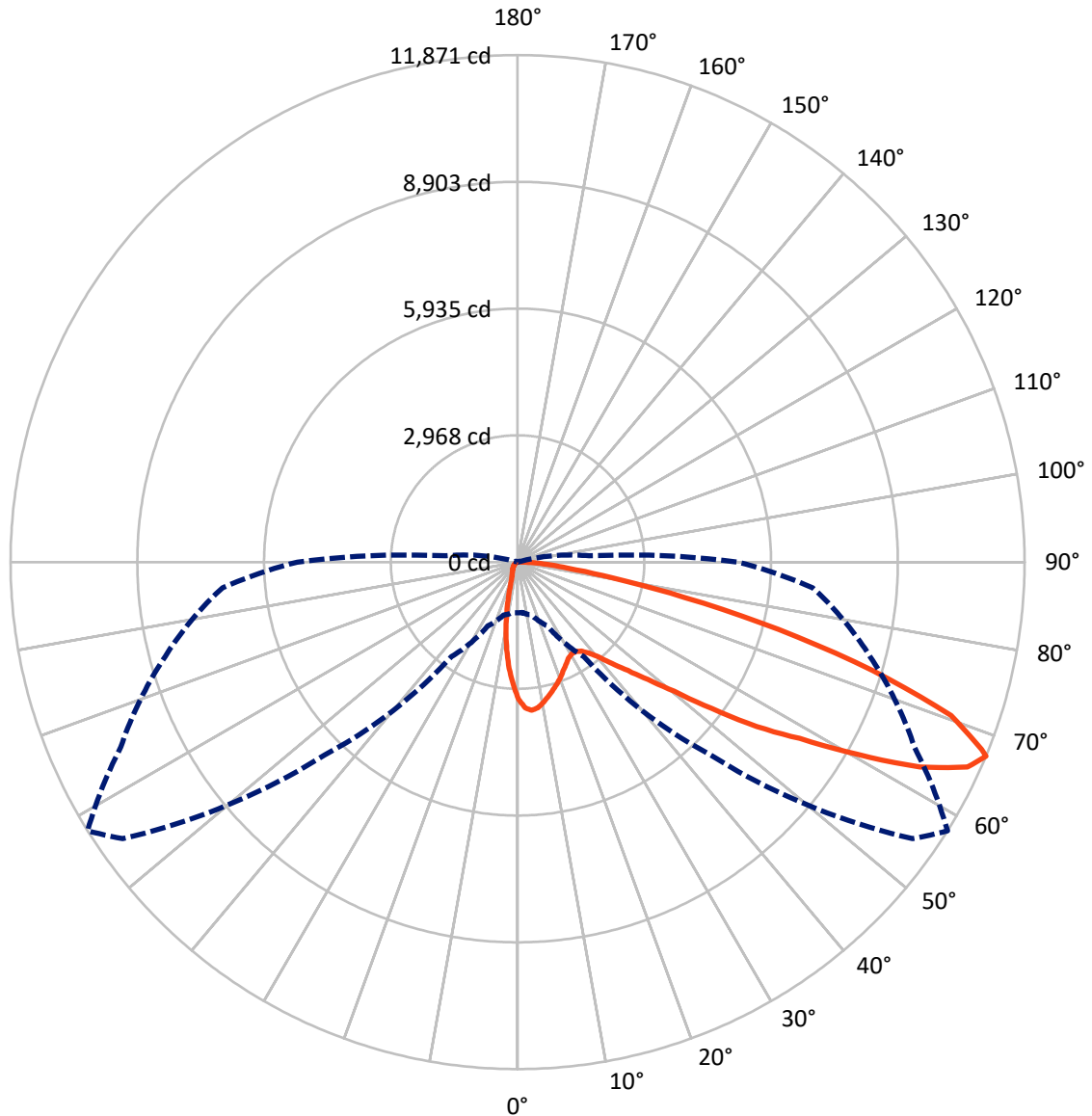
× Max cd
 - - - 1/2 Max cd



Based on 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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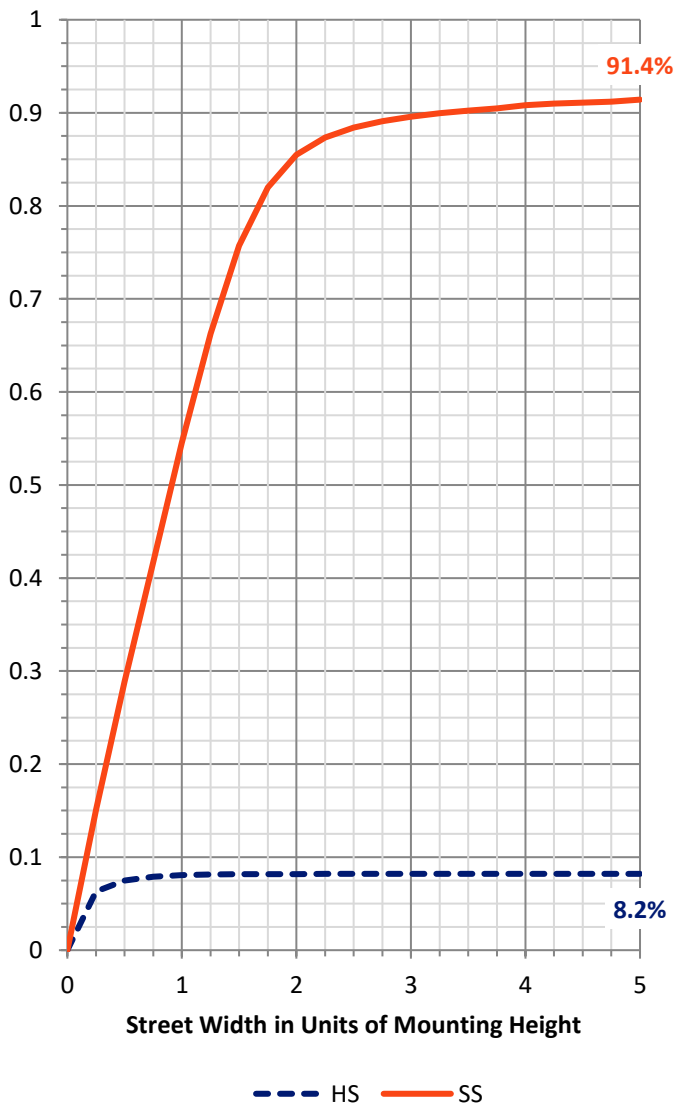
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	938.0	0.0	938.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	10410.5	0.0	10410.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	11348.5	0.0	11348.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	2.2
10°-20°	529.2	4.7
20°-30°	702.1	6.2
30°-40°	972.8	8.6
40°-50°	1587.4	14.0
50°-60°	2790.1	24.6
60°-70°	3090.3	27.2
70°-80°	1280.6	11.3
80°-90°	141.0	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°	11348.5	100.0
0°-180°	11348.5	100.0



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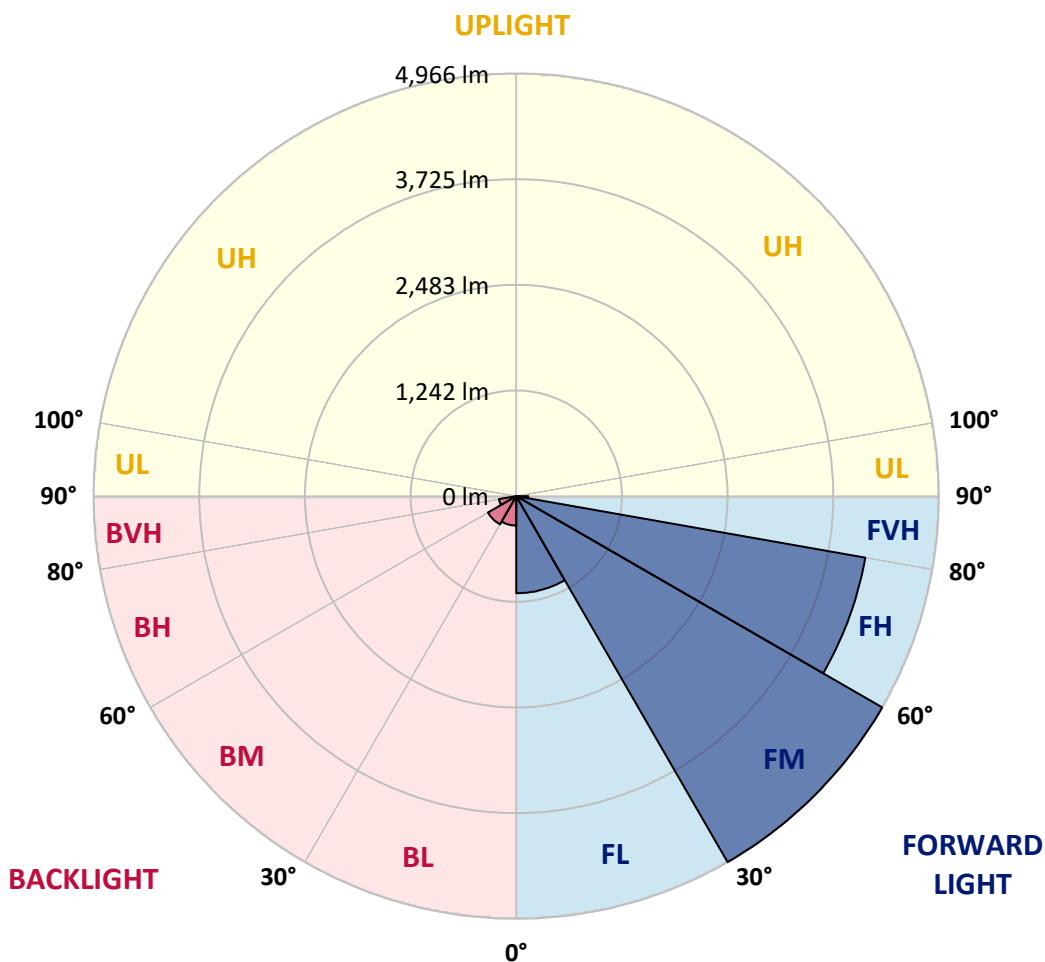
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.8	10.1			
FM (30°-60°)	4966.4	43.8			
FH (60°-80°)	4164.7	36.7			G2/5000
FVH (80°-90°)	138.7	1.2			G2/225
BL (0°-30°)	345.5	3.0	B1/500		
BM (30°-60°)	384.0	3.4	B1/1000		
BH (60°-80°)	206.2	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°	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2
2.5°	3498.5	3510.5	3521.1	3501.5	3518.0	3493.9	3432.2	3418.6	3408.1	3316.1	3263.4
5°	3496.9	3483.4	3493.9	3503.0	3480.4	3498.5	3483.4	3484.9	3444.2	3361.3	3213.7
7.5°	3263.4	3257.4	3263.4	3307.1	3356.8	3396.0	3418.6	3441.2	3414.1	3290.5	3147.4
10°	2948.5	2978.7	2995.2	3073.6	3150.4	3222.7	3293.5	3335.7	3328.2	3278.5	3075.1
12.5°	2728.6	2719.5	2779.8	2831.0	2907.8	3054.0	3177.5	3216.7	3261.9	3192.6	2980.2
15°	2525.2	2501.0	2537.2	2626.1	2757.2	2873.2	3046.5	3105.2	3162.5	3180.5	2928.9
17.5°	2330.8	2342.8	2380.5	2460.4	2583.9	2746.6	2909.3	2993.7	3130.8	3106.7	2852.1
20°	2237.4	2263.0	2276.6	2317.2	2403.1	2565.8	2808.4	2876.2	3022.3	3105.2	2776.8
22.5°	2241.9	2241.9	2210.3	2234.4	2312.7	2439.3	2671.3	2746.6	2978.7	3026.9	2709.0
25°	2290.1	2260.0	2261.5	2232.9	2266.0	2335.3	2547.8	2639.7	2889.8	3034.4	2672.8
27.5°	2326.3	2320.2	2311.2	2303.7	2261.5	2272.0	2466.4	2541.7	2855.1	3025.4	2617.1
30°	2457.4	2430.2	2421.2	2404.6	2348.9	2297.6	2401.6	2496.5	2828.0	3046.5	2585.4
32.5°	2567.3	2571.9	2579.4	2531.2	2483.0	2356.4	2419.7	2495.0	2808.4	3094.7	2617.1
35°	2706.0	2725.5	2728.6	2713.5	2662.3	2537.2	2495.0	2559.8	2841.5	3180.5	2620.1
37.5°	2916.9	2895.8	2953.0	2959.1	2922.9	2757.2	2669.8	2695.4	2939.5	3317.7	2734.6
40°	3054.0	3079.6	3186.6	3252.9	3191.1	3040.4	2922.9	2918.4	3081.1	3533.1	2876.2
42.5°	3206.2	3263.4	3380.9	3524.1	3516.5	3376.4	3257.4	3237.8	3332.7	3845.0	3100.7
45°	3414.1	3465.3	3629.5	3845.0	3962.5	3843.5	3664.2	3625.0	3638.6	4269.9	3483.4
47.5°	3759.1	3745.5	3982.1	4194.5	4387.4	4295.5	4218.6	4104.1	4093.6	4770.1	4012.2
50°	4149.3	4146.3	4357.2	4598.3	4821.3	5000.6	4872.5	4747.5	4750.5	5449.6	4634.5
52.5°	4520.0	4578.7	4806.2	5045.8	5428.5	5621.3	5744.9	5695.2	5455.6	6056.8	5300.4
55°	4715.8	4767.1	4993.1	5405.9	6010.0	6505.7	6840.2	6798.0	6335.5	6740.8	5957.3
57.5°	4530.5	4565.2	4871.0	5411.9	6416.8	7522.7	7843.6	7790.9	7245.5	7263.6	6751.3
60°	3754.6	3808.8	4263.8	4898.1	6258.6	8306.2	9225.2	9145.4	8074.2	7925.0	7262.1
62.5°	2600.5	2636.6	3010.3	3799.8	5508.3	8578.9	10530.0	10573.7	8948.0	8440.3	7414.2
65°	1684.4	1681.4	1895.4	2430.2	3903.7	7753.2	11301.4	11572.6	9791.7	8518.6	7367.5
67°	1190.3	1185.7	1286.7	1648.3	2702.9	6388.2	11287.9	11870.9	10249.8	8541.2	6935.1
67.5°	1098.4	1093.8	1190.3	1515.7	2439.3	5940.7	11119.1	11717.3	10411.0	8509.6	6745.3
70°	852.8	840.7	876.9	1044.1	1420.8	3842.0	9516.0	10763.5	10076.5	7720.1	5386.3
72.5°	616.2	629.8	687.0	857.3	1114.9	2067.1	7253.0	8703.9	8416.2	5818.7	3423.1
75°	429.4	441.4	533.4	699.1	1023.0	1253.5	4904.2	6312.9	5862.4	3212.2	1458.4
77.5°	224.5	239.6	340.5	559.0	929.6	970.3	2930.4	4003.2	3106.7	1143.6	402.3
80°	104.0	111.5	170.3	396.3	777.4	852.8	1708.5	2226.8	1243.0	256.1	138.6
82.5°	45.2	49.7	78.3	227.5	551.4	745.8	1057.7	1167.7	450.5	82.9	85.9
85°	9.0	10.5	30.1	120.5	266.7	452.0	742.8	693.1	226.0	40.7	67.8
87.5°	0.0	0.0	7.5	34.7	72.3	134.1	314.9	314.9	69.3	21.1	25.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2
2.5°	3216.7	3162.5	3043.4	2933.5	2855.1	2766.2	2648.7	2596.0	2576.4	2549.3	2508.6
5°	3132.3	3066.0	2862.6	2657.7	2433.2	2263.0	2082.2	1976.7	1896.9	1847.2	1830.6
7.5°	3013.3	2877.7	2603.5	2275.0	1984.3	1731.1	1456.9	1271.6	1152.6	1104.4	1059.2
10°	2918.4	2742.1	2324.8	1916.5	1529.3	1158.6	849.8	687.0	563.5	516.8	510.8
12.5°	2794.8	2583.9	2064.1	1550.3	1063.7	690.0	470.1	408.3	373.7	367.6	363.1
15°	2692.4	2440.8	1817.0	1200.8	688.5	430.9	366.1	351.1	342.0	339.0	340.5
17.5°	2623.1	2287.1	1563.9	873.9	453.5	352.6	337.5	328.5	323.9	322.4	317.9
20°	2486.0	2157.5	1313.8	611.7	354.1	325.4	313.4	305.9	301.3	299.8	298.3
22.5°	2407.6	1993.3	1063.7	426.4	314.9	295.3	286.3	280.2	272.7	268.2	266.7
25°	2329.3	1872.8	840.7	331.5	286.3	272.7	259.1	251.6	239.6	233.5	232.0
27.5°	2237.4	1753.7	647.9	287.8	257.6	244.1	230.5	218.5	203.4	197.4	194.4
30°	2184.6	1637.7	488.2	257.6	236.5	218.5	201.9	186.8	170.3	159.7	156.7
32.5°	2157.5	1532.3	366.1	235.0	213.9	194.4	173.3	155.2	140.1	131.1	129.6
35°	2124.4	1429.8	287.8	213.9	192.9	171.8	150.7	132.6	117.5	110.0	107.0
37.5°	2159.0	1369.5	239.6	197.4	176.3	152.2	129.6	111.5	99.4	91.9	90.4
40°	2254.0	1319.8	207.9	182.3	159.7	134.1	113.0	94.9	84.4	78.3	75.3
42.5°	2400.1	1319.8	188.3	167.2	144.6	117.5	96.4	82.9	72.3	66.3	64.8
45°	2665.3	1360.5	171.8	152.2	126.6	100.9	82.9	69.3	58.8	52.7	51.2
47.5°	3037.4	1453.9	158.2	138.6	113.0	88.9	72.3	58.8	48.2	42.2	40.7
50°	3537.6	1666.4	144.6	122.0	100.9	76.8	60.3	46.7	37.7	31.6	30.1
52.5°	4161.4	1967.7	131.1	113.0	85.9	64.8	48.2	37.7	28.6	24.1	22.6
55°	4821.3	2336.8	114.5	100.9	73.8	54.2	39.2	28.6	21.1	18.1	16.6
57.5°	5485.7	2621.6	100.9	87.4	60.3	43.7	31.6	22.6	15.1	12.1	10.5
60°	5838.3	2648.7	87.4	72.3	48.2	34.7	24.1	16.6	10.5	7.5	6.0
62.5°	5892.5	2407.6	75.3	58.8	39.2	27.1	16.6	12.1	6.0	3.0	3.0
65°	5613.8	2006.9	64.8	46.7	30.1	19.6	12.1	7.5	3.0	1.5	0.0
67°	5161.8	1681.4	55.7	39.2	24.1	15.1	9.0	4.5	1.5	0.0	0.0
67.5°	4987.0	1591.0	52.7	36.2	22.6	13.6	7.5	4.5	1.5	0.0	0.0
70°	3870.6	1136.0	39.2	25.6	16.6	10.5	6.0	3.0	0.0	0.0	0.0
72.5°	2371.5	664.4	30.1	18.1	12.1	7.5	4.5	1.5	0.0	0.0	0.0
75°	994.4	229.0	25.6	13.6	9.0	4.5	3.0	1.5	0.0	0.0	0.0
77.5°	259.1	85.9	18.1	9.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0
80°	105.5	39.2	12.1	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0
82.5°	69.3	18.1	7.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
85°	52.7	10.5	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	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)