

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: P484281

Luminaire Tested: **IFLD-S-SA3C-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484281
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

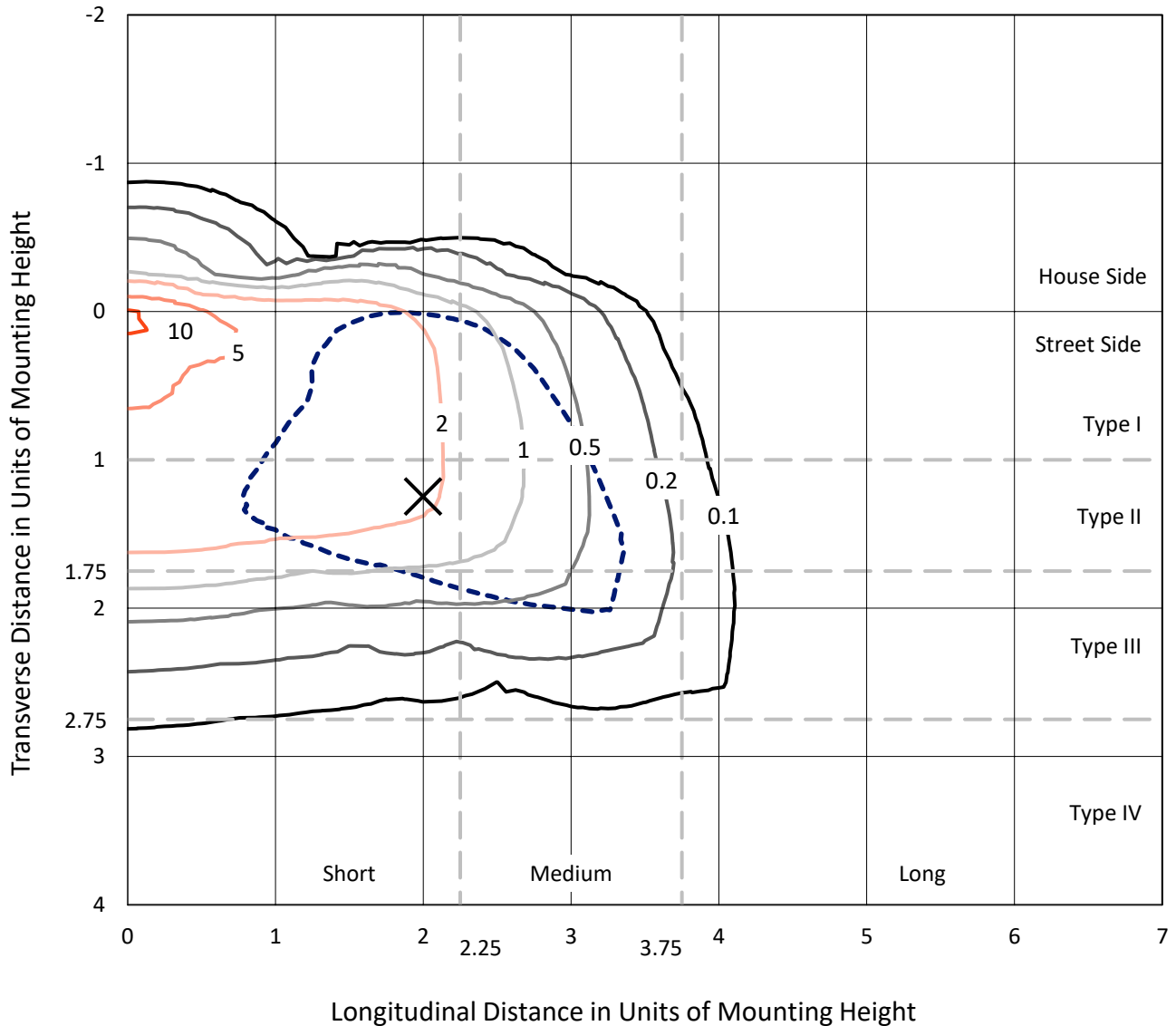
Lumens per Lamp: N/A
Luminaire Lumens: 14814.5 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

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

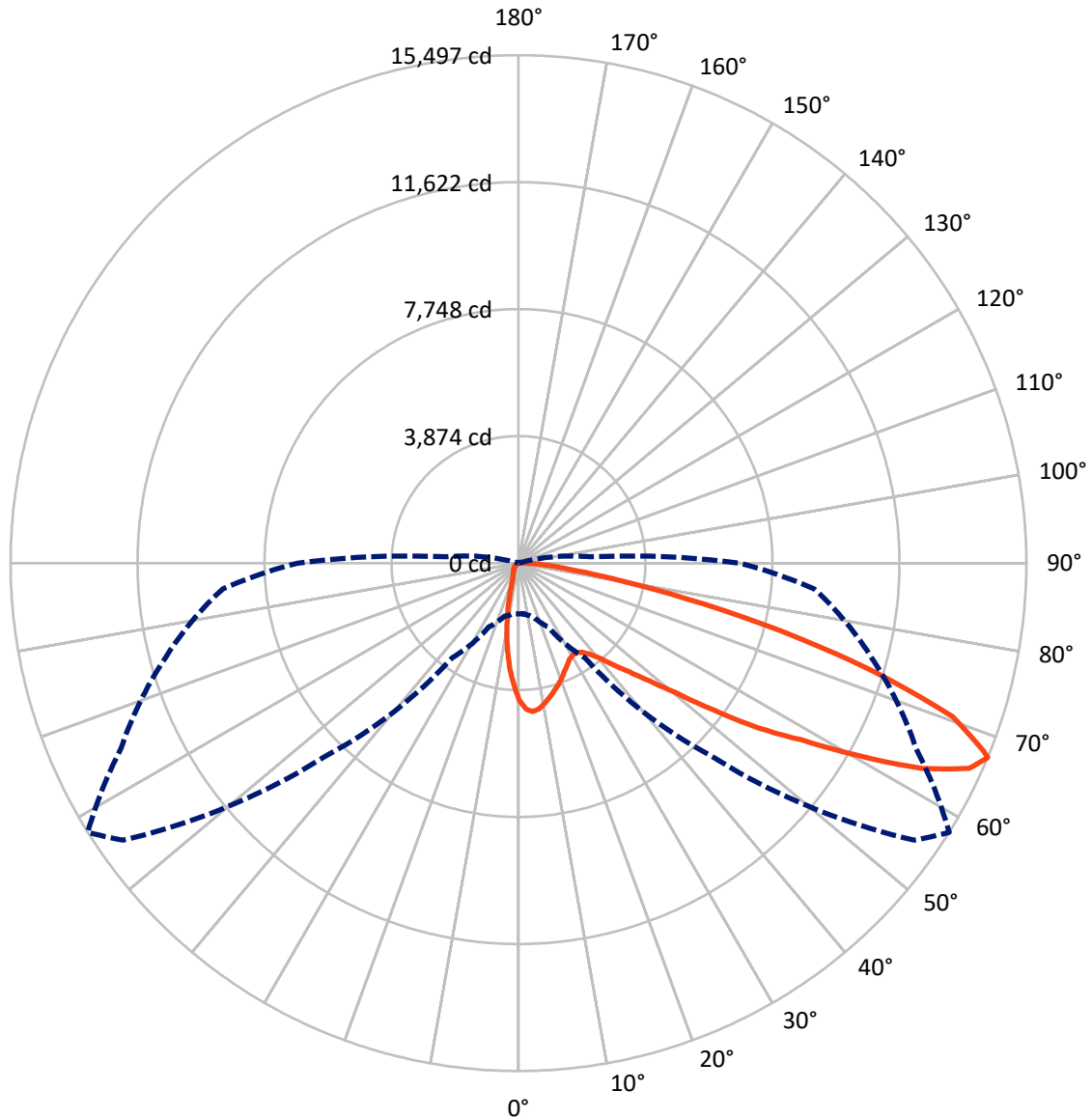
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 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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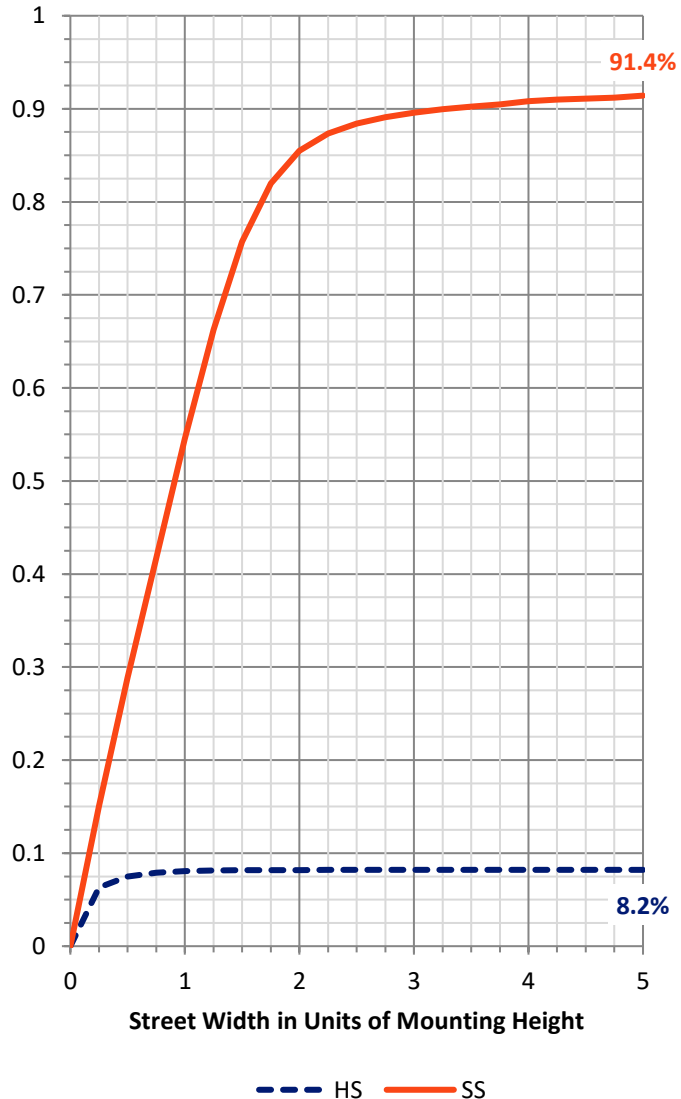
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1224.5	0.0	1224.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	13590.0	0.0	13590.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	14814.5	0.0	14814.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.0	2.2
10°-20°	690.8	4.7
20°-30°	916.5	6.2
30°-40°	1270.0	8.6
40°-50°	2072.2	14.0
50°-60°	3642.3	24.6
60°-70°	4034.1	27.2
70°-80°	1671.7	11.3
80°-90°	184.0	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°	14814.5	100.0
0°-180°	14814.5	100.0

Coefficient of Utilization



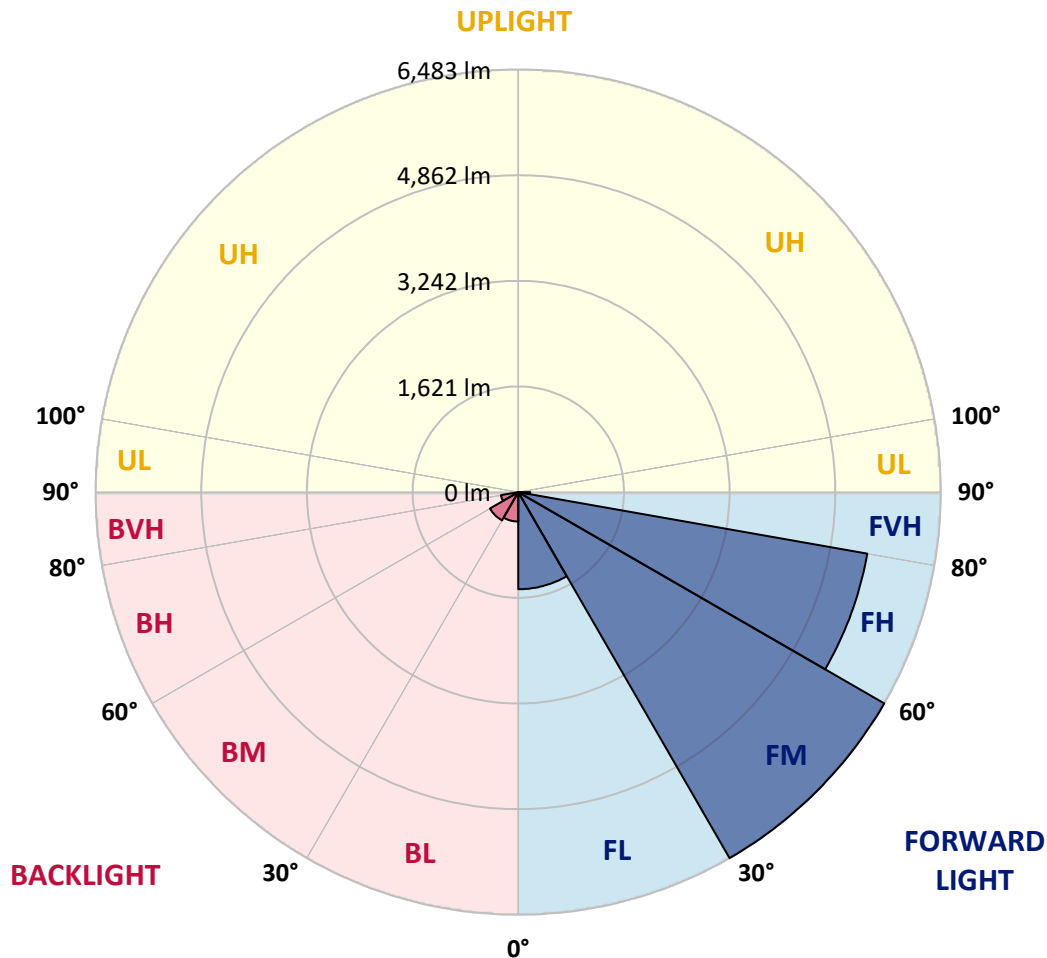
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.3	10.1			
FM (30°-60°)	6483.1	43.8			
FH (60°-80°)	5436.6	36.7			G3/7500
FVH (80°-90°)	181.0	1.2			G2/225
BL (0°-30°)	451.0	3.0	B1/500		
BM (30°-60°)	501.3	3.4	B1/1000		
BH (60°-80°)	269.2	1.8	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2
2.5°	4566.9	4582.7	4596.4	4570.9	4592.5	4561.0	4480.4	4462.7	4448.9	4328.9	4260.1
5°	4565.0	4547.3	4561.0	4572.8	4543.3	4566.9	4547.3	4549.2	4496.1	4387.9	4195.2
7.5°	4260.1	4252.2	4260.1	4317.1	4382.0	4433.2	4462.7	4492.2	4456.8	4295.5	4108.7
10°	3849.0	3888.4	3910.0	4012.3	4112.6	4207.0	4299.4	4354.5	4344.7	4279.8	4014.2
12.5°	3561.9	3550.1	3628.8	3695.6	3795.9	3986.7	4148.0	4199.1	4258.1	4167.7	3890.3
15°	3296.4	3264.9	3312.1	3428.1	3599.3	3750.7	3976.9	4053.6	4128.3	4151.9	3823.5
17.5°	3042.6	3058.4	3107.6	3211.8	3373.1	3585.5	3797.9	3908.0	4087.0	4055.6	3723.2
20°	2920.7	2954.1	2971.8	3024.9	3137.1	3349.5	3666.1	3754.6	3945.4	4053.6	3624.8
22.5°	2926.6	2926.6	2885.3	2916.8	3019.0	3184.3	3487.1	3585.5	3888.4	3951.3	3536.3
25°	2989.5	2950.2	2952.2	2914.8	2958.1	3048.5	3325.9	3445.8	3772.3	3961.1	3489.1
27.5°	3036.7	3028.9	3017.1	3007.2	2952.2	2965.9	3219.7	3318.0	3727.1	3949.3	3416.3
30°	3207.9	3172.5	3160.7	3139.0	3066.2	2999.4	3135.1	3259.0	3691.7	3976.9	3375.0
32.5°	3351.4	3357.3	3367.2	3304.2	3241.3	3076.1	3158.7	3257.0	3666.1	4039.8	3416.3
35°	3532.4	3558.0	3561.9	3542.2	3475.3	3312.1	3257.0	3341.6	3709.4	4151.9	3420.3
37.5°	3807.7	3780.2	3854.9	3862.8	3815.6	3599.3	3485.2	3518.6	3837.2	4330.9	3569.8
40°	3986.7	4020.1	4159.8	4246.3	4165.7	3969.0	3815.6	3809.7	4022.1	4612.2	3754.6
42.5°	4185.4	4260.1	4413.5	4600.4	4590.5	4407.6	4252.2	4226.7	4350.6	5019.3	4047.7
45°	4456.8	4523.7	4738.0	5019.3	5172.7	5017.3	4783.3	4732.1	4749.8	5573.9	4547.3
47.5°	4907.2	4889.5	5198.3	5475.6	5727.3	5607.4	5507.1	5357.6	5343.8	6226.9	5237.6
50°	5416.6	5412.6	5688.0	6002.7	6293.8	6527.8	6360.6	6197.4	6201.3	7113.9	6049.9
52.5°	5900.4	5977.1	6274.1	6586.8	7086.4	7338.1	7499.4	7434.5	7121.8	7906.6	6919.2
55°	6156.1	6223.0	6518.0	7056.9	7845.6	8492.7	8929.3	8874.2	8270.4	8799.5	7776.7
57.5°	5914.2	5959.4	6358.7	7064.8	8376.6	9820.3	10239.2	10170.3	9458.4	9482.0	8813.3
60°	4901.3	4972.1	5566.1	6394.1	8170.1	10843.0	12042.7	11938.5	10540.1	10345.4	9480.0
62.5°	3394.7	3441.9	3929.7	4960.3	7190.6	11199.0	13746.0	13803.0	11680.9	11018.0	9678.6
65°	2198.9	2195.0	2474.2	3172.5	5096.0	10121.2	14753.0	15107.0	12782.3	11120.3	9617.7
67°	1553.8	1547.9	1679.7	2151.7	3528.4	8339.3	14735.3	15496.5	13380.2	11149.8	9053.2
67.5°	1433.8	1427.9	1553.8	1978.6	3184.3	7755.1	14515.0	15295.8	13590.6	11108.5	8805.4
70°	1113.2	1097.5	1144.7	1363.0	1854.7	5015.4	12422.3	14050.9	13154.0	10077.9	7031.3
72.5°	804.4	822.1	896.9	1119.1	1455.4	2698.5	9468.2	11362.2	10986.6	7595.8	4468.6
75°	560.5	576.3	696.2	912.6	1335.5	1636.4	6402.0	8240.9	7652.8	4193.2	1903.9
77.5°	293.1	312.7	444.5	729.7	1213.5	1266.6	3825.4	5225.8	4055.6	1492.8	525.1
80°	135.7	145.5	222.2	517.3	1014.9	1113.2	2230.4	2906.9	1622.6	334.4	180.9
82.5°	59.0	64.9	102.3	297.0	719.9	973.6	1380.7	1524.3	588.1	108.2	112.1
85°	11.8	13.8	39.3	157.3	348.1	590.0	969.6	904.7	295.0	53.1	88.5
87.5°	0.0	0.0	9.8	45.2	94.4	175.0	411.1	411.1	90.5	27.5	33.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2	4197.2
2.5°	4199.1	4128.3	3972.9	3829.4	3727.1	3611.1	3457.6	3388.8	3363.2	3327.8	3274.7
5°	4089.0	4002.4	3736.9	3469.4	3176.4	2954.1	2718.1	2580.4	2476.2	2411.3	2389.7
7.5°	3933.6	3756.6	3398.6	2969.9	2590.3	2259.9	1901.9	1660.0	1504.6	1441.7	1382.7
10°	3809.7	3579.6	3034.8	2501.8	1996.3	1512.5	1109.3	896.9	735.6	674.6	666.7
12.5°	3648.4	3373.1	2694.5	2023.8	1388.6	900.8	613.6	533.0	487.8	479.9	474.0
15°	3514.7	3186.2	2372.0	1567.5	898.8	562.5	477.9	458.3	446.5	442.5	444.5
17.5°	3424.2	2985.6	2041.5	1140.7	592.0	460.2	440.6	428.8	422.9	420.9	415.0
20°	3245.2	2816.5	1715.1	798.5	462.2	424.8	409.1	399.3	393.4	391.4	389.4
22.5°	3143.0	2602.1	1388.6	556.6	411.1	385.5	373.7	365.8	356.0	350.1	348.1
25°	3040.7	2444.7	1097.5	432.7	373.7	356.0	338.3	328.5	312.7	304.9	302.9
27.5°	2920.7	2289.4	845.7	375.7	336.3	318.6	300.9	285.2	265.5	257.7	253.7
30°	2851.9	2137.9	637.2	336.3	308.8	285.2	263.6	243.9	222.2	208.5	204.5
32.5°	2816.5	2000.2	477.9	306.8	279.3	253.7	226.2	202.6	182.9	171.1	169.1
35°	2773.2	1866.5	375.7	279.3	251.8	224.2	196.7	173.1	153.4	143.6	139.6
37.5°	2818.4	1787.8	312.7	257.7	230.1	198.6	169.1	145.5	129.8	120.0	118.0
40°	2942.3	1722.9	271.4	238.0	208.5	175.0	147.5	123.9	110.1	102.3	98.3
42.5°	3133.1	1722.9	245.9	218.3	188.8	153.4	125.9	108.2	94.4	86.5	84.6
45°	3479.3	1776.0	224.2	198.6	165.2	131.8	108.2	90.5	76.7	68.8	66.9
47.5°	3965.1	1898.0	206.5	180.9	147.5	116.0	94.4	76.7	62.9	55.1	53.1
50°	4618.1	2175.3	188.8	159.3	131.8	100.3	78.7	61.0	49.2	41.3	39.3
52.5°	5432.3	2568.6	171.1	147.5	112.1	84.6	62.9	49.2	37.4	31.5	29.5
55°	6293.8	3050.5	149.5	131.8	96.4	70.8	51.1	37.4	27.5	23.6	21.6
57.5°	7161.1	3422.2	131.8	114.1	78.7	57.0	41.3	29.5	19.7	15.7	13.8
60°	7621.4	3457.6	114.1	94.4	62.9	45.2	31.5	21.6	13.8	9.8	7.9
62.5°	7692.2	3143.0	98.3	76.7	51.1	35.4	21.6	15.7	7.9	3.9	3.9
65°	7328.3	2619.8	84.6	61.0	39.3	25.6	15.7	9.8	3.9	2.0	0.0
67°	6738.3	2195.0	72.8	51.1	31.5	19.7	11.8	5.9	2.0	0.0	0.0
67.5°	6510.1	2076.9	68.8	47.2	29.5	17.7	9.8	5.9	2.0	0.0	0.0
70°	5052.7	1483.0	51.1	33.4	21.6	13.8	7.9	3.9	0.0	0.0	0.0
72.5°	3095.8	867.4	39.3	23.6	15.7	9.8	5.9	2.0	0.0	0.0	0.0
75°	1298.1	299.0	33.4	17.7	11.8	5.9	3.9	2.0	0.0	0.0	0.0
77.5°	338.3	112.1	23.6	11.8	7.9	5.9	3.9	2.0	0.0	0.0	0.0
80°	137.7	51.1	15.7	7.9	7.9	5.9	3.9	2.0	0.0	0.0	0.0
82.5°	90.5	23.6	9.8	7.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0
85°	68.8	13.8	5.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.5	7.9	5.9	3.9	3.9	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)