

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: P484762

Luminaire Tested: **IFLD-S-SA6A-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484762
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

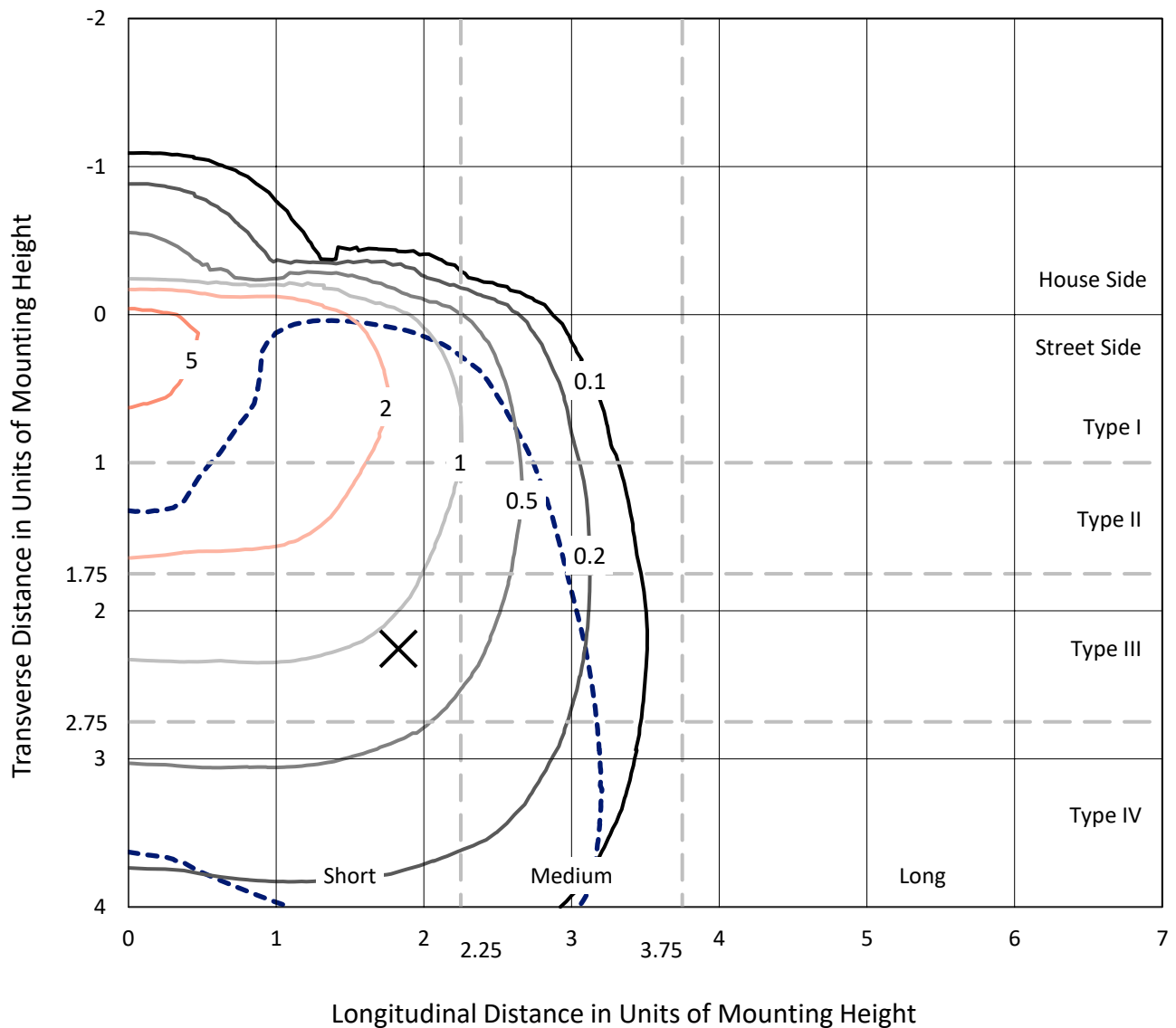
Lumens per Lamp: N/A
Luminaire Lumens: 21991.4 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

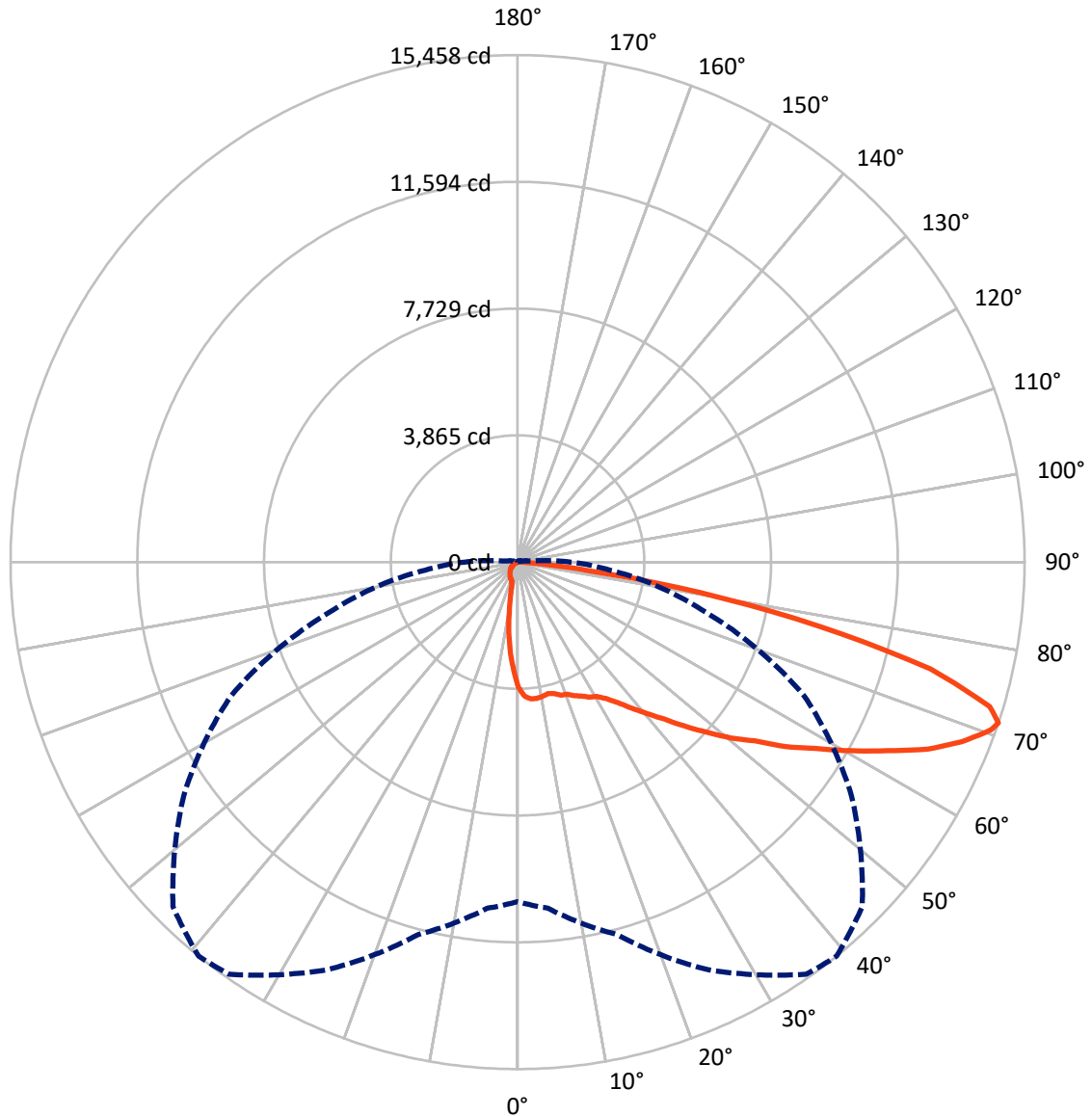
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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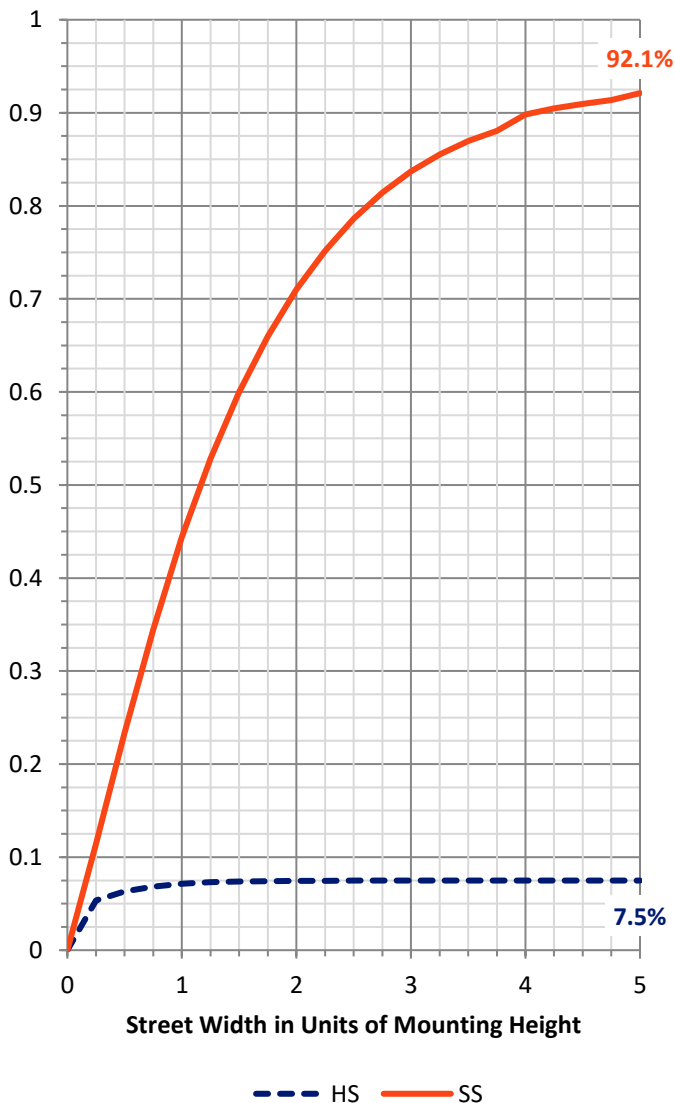
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.6	0.0	1655.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20335.8	0.0	20335.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	21991.4	0.0	21991.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	1.5
10°-20°	787.7	3.6
20°-30°	1264.5	5.8
30°-40°	1935.7	8.8
40°-50°	3107.1	14.1
50°-60°	4563.8	20.8
60°-70°	5747.9	26.1
70°-80°	3836.0	17.4
80°-90°	428.7	1.9
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°	21991.4	100.0
0°-180°	21991.4	100.0

Coefficient of Utilization



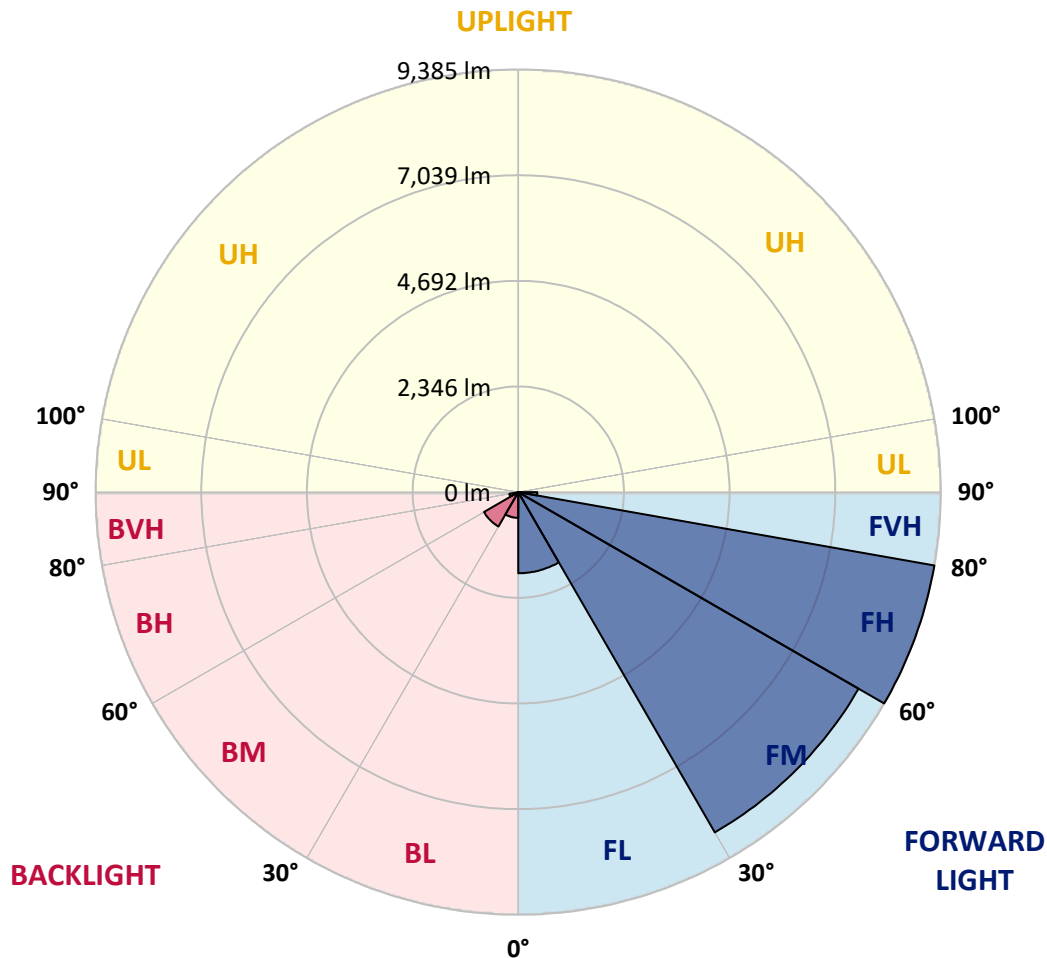
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1800.6	8.2			
FM (30°-60°)	8726.5	39.7			
FH (60°-80°)	9384.7	42.7			G4/12000
FVH (80°-90°)	424.0	1.9			G3/500
BL (0°-30°)	571.6	2.6	B2/1000		
BM (30°-60°)	880.0	4.0	B1/1000		
BH (60°-80°)	199.3	0.9	B1/500		G1/500
BVH (80°-90°)	4.7	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7
2.5°	4124.8	4165.2	4124.8	4107.5	4090.2	4093.1	4047.0	4055.6	4000.8	3928.7	3871.0
5°	4254.6	4309.5	4266.2	4246.0	4243.1	4188.3	4165.2	4110.4	4044.1	3931.6	3862.4
7.5°	4243.1	4231.6	4251.8	4234.5	4197.0	4197.0	4171.0	4093.1	4026.8	3899.9	3781.6
10°	4156.6	4191.2	4173.9	4153.7	4162.3	4165.2	4116.2	4061.4	4041.2	3914.3	3721.0
12.5°	4147.9	4090.2	4153.7	4156.6	4119.1	4116.2	4110.4	4096.0	4032.5	3917.2	3735.4
15°	4119.1	4096.0	4159.5	4162.3	4171.0	4162.3	4171.0	4159.5	4096.0	4029.7	3798.9
17.5°	4142.2	4116.2	4205.6	4248.9	4228.7	4269.1	4254.6	4202.7	4147.9	4070.0	3859.5
20°	4147.9	4185.4	4283.5	4300.8	4364.3	4297.9	4295.0	4240.2	4205.6	4122.0	3897.0
22.5°	4254.6	4272.0	4393.1	4430.6	4433.5	4424.8	4352.7	4289.3	4274.8	4171.0	3905.6
25°	4416.2	4476.8	4531.6	4554.6	4563.3	4522.9	4447.9	4367.1	4332.5	4266.2	3995.0
27.5°	4701.7	4664.2	4713.3	4747.9	4649.8	4664.2	4569.1	4499.8	4450.8	4393.1	4098.9
30°	4955.6	4921.0	4923.9	4918.1	4834.4	4756.6	4730.6	4609.4	4548.9	4571.9	4260.4
32.5°	5183.5	5108.5	5171.9	5143.1	4987.3	4964.2	4944.0	4791.2	4802.7	4909.4	4502.7
35°	5394.0	5368.1	5420.0	5368.1	5264.2	5258.5	5238.3	5105.6	5169.0	5321.9	4918.1
37.5°	5587.3	5595.9	5659.4	5633.4	5642.1	5647.9	5636.3	5495.0	5676.7	6020.0	5402.7
40°	5766.1	5754.6	5910.4	5991.1	6008.4	6071.9	6071.9	6037.3	6317.1	6703.6	6074.8
42.5°	5956.5	5985.4	6187.3	6322.8	6487.3	6542.1	6617.1	6634.4	7067.0	7508.4	6761.3
45°	6268.0	6219.0	6475.7	6795.9	6940.1	7133.4	7248.8	7346.8	7868.9	8474.7	7447.8
47.5°	6663.2	6565.1	6790.1	7254.5	7589.1	7747.8	7955.5	8085.3	8595.8	9221.8	8096.8
50°	7101.7	7000.7	7110.3	7750.7	8140.1	8428.5	8693.9	8858.3	9475.6	10058.3	8569.9
52.5°	7597.8	7505.5	7522.8	8267.0	8841.0	9051.6	9400.6	9645.8	10260.2	10563.1	8737.2
55°	8125.7	8102.6	8047.8	8771.8	9455.4	9928.5	10139.0	10433.3	11065.0	10837.1	8918.9
57.5°	8656.4	8584.3	8662.2	9441.0	10441.9	10724.6	11015.9	11191.9	11512.1	11076.5	8849.7
60°	9155.4	9161.2	9270.8	10167.9	11281.3	11682.3	11944.7	11838.0	11970.7	11180.4	8691.0
62.5°	9576.6	9565.0	9841.9	10984.2	12391.8	12663.0	12859.1	12383.2	12184.2	11281.3	8414.1
65°	9954.4	10084.2	10519.8	11956.3	13436.0	13747.6	13629.3	12899.5	12391.8	10984.2	7635.3
67.5°	10240.0	10433.3	11189.0	12870.7	14393.7	14612.9	14448.5	13291.8	12146.7	9818.9	6219.0
70°	10407.3	10603.5	11667.8	13632.2	15158.1	15316.7	14930.2	12988.9	10715.9	7110.3	3879.7
71°	10355.4	10594.8	11760.1	13713.0	15339.8	15458.1	14858.1	12429.3	9637.1	5953.6	2829.7
72.5°	9885.2	10110.2	11376.5	13655.3	15120.6	15048.5	14295.6	11085.2	7586.3	3796.0	1462.4
75°	7263.2	7505.5	9764.1	11812.1	13496.6	13000.5	11569.8	7779.5	3957.5	1162.5	426.9
77.5°	3617.2	3657.6	6060.4	8575.6	9899.6	9406.4	7753.6	4338.3	1479.8	343.3	213.5
80°	1667.2	1678.8	2273.0	4442.1	5985.4	5633.4	4344.1	2140.3	669.2	181.7	167.3
82.5°	1136.5	1153.8	1370.1	1840.3	2598.9	2192.2	1759.6	1370.1	383.6	109.6	164.4
85°	207.7	190.4	767.3	975.0	1003.8	680.7	608.6	1185.5	144.2	63.5	144.2
87.5°	0.0	2.9	106.7	398.1	357.7	158.6	207.7	288.5	14.4	20.2	26.0
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°	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7	3827.7
2.5°	3822.0	3790.2	3683.5	3565.3	3458.5	3374.9	3268.1	3219.1	3141.2	3098.0	3095.1
5°	3767.2	3680.6	3496.0	3297.0	3074.9	2890.3	2685.5	2570.1	2437.4	2397.0	2388.4
7.5°	3674.9	3550.8	3279.7	2999.9	2659.5	2333.6	2082.6	1814.4	1649.9	1580.7	1554.7
10°	3617.2	3467.2	3098.0	2679.7	2203.8	1745.1	1393.2	1107.7	957.7	885.5	868.2
12.5°	3617.2	3455.6	2950.9	2374.0	1742.2	1194.2	862.5	698.1	649.0	631.7	631.7
15°	3608.5	3432.6	2809.5	2059.5	1289.4	801.9	643.2	608.6	602.9	600.0	597.1
17.5°	3651.8	3392.2	2665.3	1722.1	911.5	631.7	591.3	585.6	579.8	579.8	574.0
20°	3683.5	3369.1	2492.2	1364.4	680.7	585.6	568.2	559.6	556.7	553.8	559.6
22.5°	3657.6	3334.5	2278.8	1021.1	594.2	556.7	545.2	536.5	530.7	530.7	533.6
25°	3706.6	3302.8	2065.3	770.2	556.7	530.7	519.2	513.4	510.6	507.7	501.9
27.5°	3772.9	3317.2	1811.5	620.2	525.0	504.8	493.3	487.5	484.6	478.8	484.6
30°	3853.7	3314.3	1531.7	542.3	496.1	475.9	464.4	461.5	455.8	452.9	455.8
32.5°	3992.2	3389.3	1243.2	501.9	464.4	447.1	435.6	432.7	429.8	426.9	424.0
35°	4289.3	3481.6	972.1	470.2	435.6	415.4	406.7	400.9	398.1	395.2	392.3
37.5°	4655.6	3686.4	741.3	441.3	406.7	386.5	377.9	375.0	363.4	360.6	357.7
40°	5114.2	3905.6	571.1	409.6	380.8	360.6	351.9	343.3	328.8	323.1	317.3
42.5°	5685.4	4119.1	470.2	380.8	351.9	337.5	323.1	308.6	297.1	285.6	279.8
45°	6256.5	4367.1	412.5	354.8	328.8	311.5	300.0	279.8	259.6	242.3	239.4
47.5°	6732.4	4456.6	377.9	325.9	305.8	291.3	274.0	248.1	219.2	201.9	199.0
50°	7087.2	4404.6	343.3	297.1	279.8	265.4	242.3	210.6	181.7	164.4	158.6
52.5°	7156.5	4176.8	311.5	274.0	253.8	236.5	210.6	176.0	144.2	126.9	124.0
55°	7107.4	3798.9	285.6	253.8	230.8	204.8	176.0	141.3	112.5	95.2	92.3
57.5°	7006.5	3351.8	256.7	227.9	201.9	176.0	144.2	115.4	83.7	66.3	66.3
60°	6663.2	2743.2	227.9	199.0	173.1	150.0	118.3	83.7	57.7	43.3	40.4
62.5°	6184.4	2108.6	199.0	170.2	150.0	124.0	92.3	60.6	34.6	23.1	23.1
65°	5310.4	1476.9	167.3	141.3	124.0	101.0	69.2	37.5	20.2	8.7	8.7
67.5°	4035.4	914.4	138.5	118.3	106.7	80.8	49.0	23.1	8.7	2.9	0.0
70°	2316.3	475.9	109.6	95.2	83.7	60.6	34.6	11.5	5.8	0.0	0.0
71°	1618.2	351.9	98.1	83.7	75.0	54.8	28.8	8.7	2.9	0.0	0.0
72.5°	810.5	233.6	83.7	69.2	60.6	43.3	23.1	8.7	2.9	0.0	0.0
75°	288.5	150.0	57.7	46.2	43.3	31.7	14.4	5.8	2.9	0.0	0.0
77.5°	199.0	121.1	40.4	28.8	28.8	20.2	8.7	2.9	2.9	0.0	0.0
80°	181.7	66.3	26.0	17.3	14.4	11.5	5.8	2.9	0.0	0.0	0.0
82.5°	181.7	49.0	14.4	11.5	8.7	5.8	2.9	0.0	0.0	0.0	0.0
85°	126.9	26.0	8.7	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	20.2	8.7	5.8	2.9	2.9	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)