

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: P483610

Luminaire Tested: **IFLD-L-SA8D-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483610
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

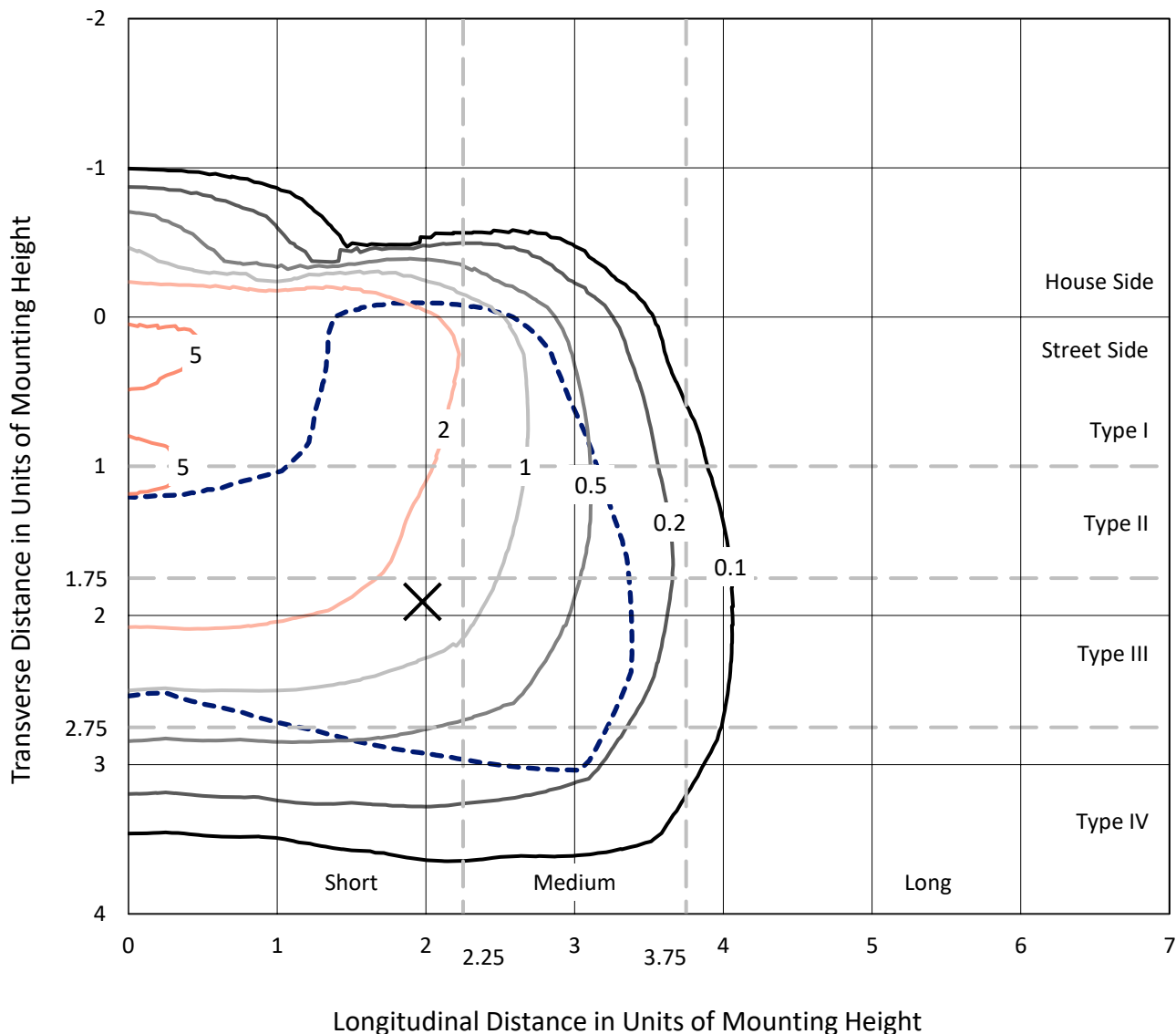
Lumens per Lamp: N/A
Luminaire Lumens: 40569.1 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

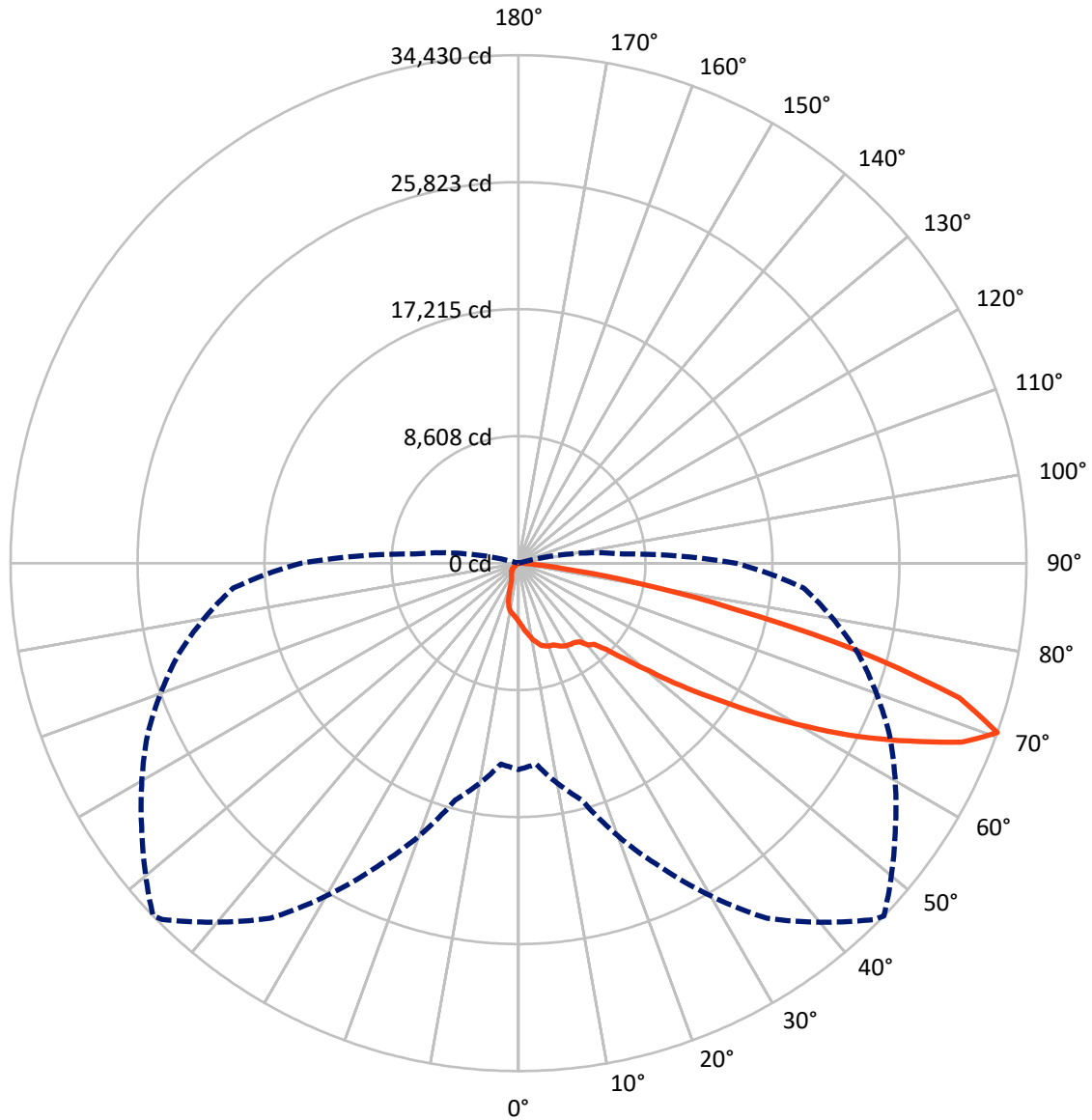
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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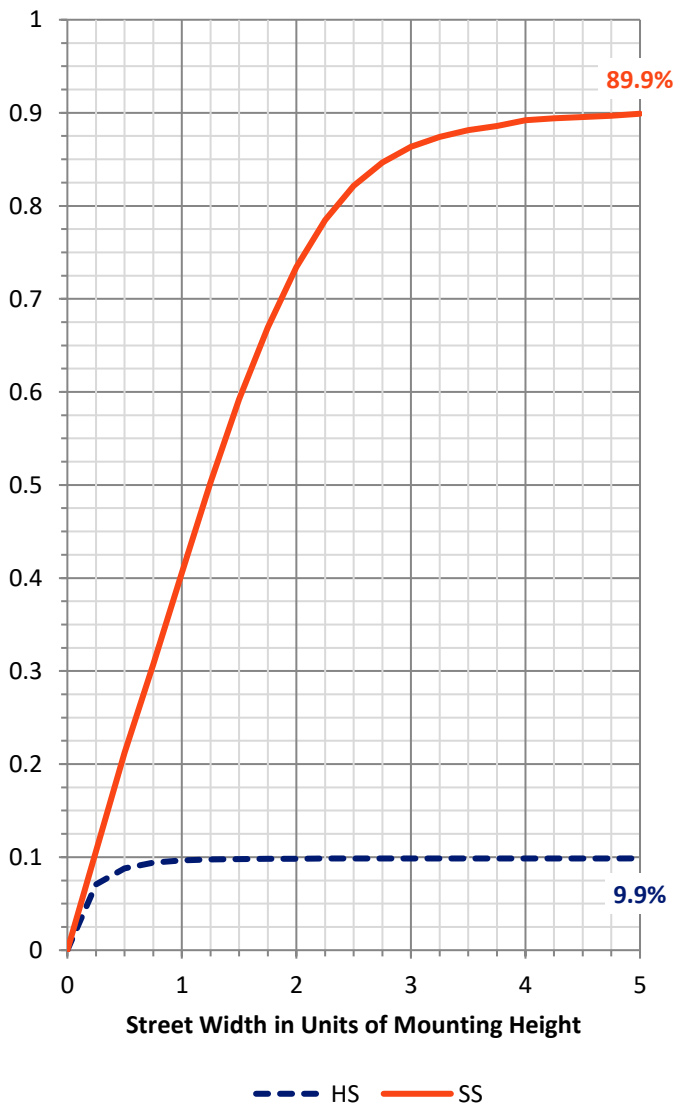
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4036.7	0.0	4036.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	36532.3	0.0	36532.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	40569.1	0.0	40569.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.1	1.0
10°-20°	1199.2	3.0
20°-30°	1920.9	4.7
30°-40°	2741.9	6.8
40°-50°	4734.5	11.7
50°-60°	9064.6	22.3
60°-70°	13423.2	33.1
70°-80°	6648.4	16.4
80°-90°	439.3	1.1
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°	40569.1	100.0
0°-180°	40569.1	100.0



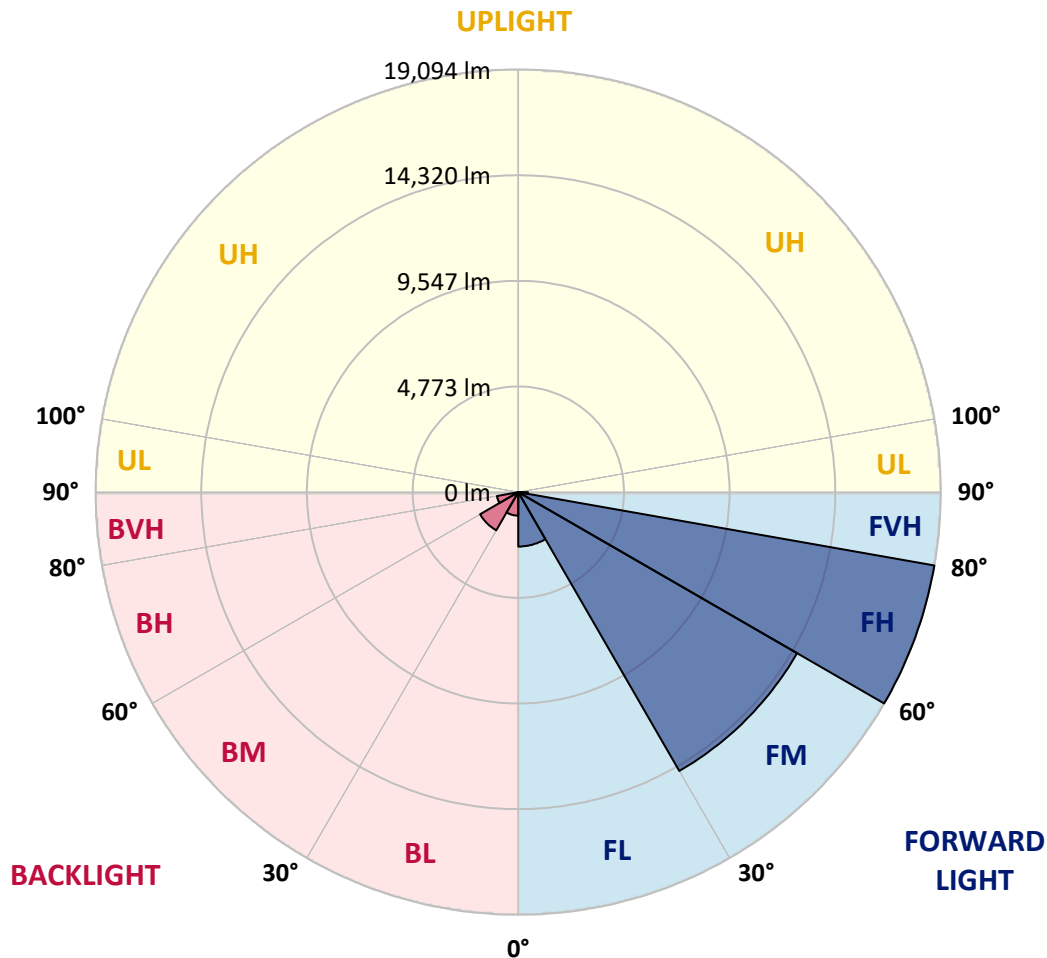
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2456.8	6.1			
FM (30°-60°)	14548.0	35.9			
FH (60°-80°)	19093.9	47.1			G5
FVH (80°-90°)	433.7	1.1			G3/500
BL (0°-30°)	1060.5	2.6	B3/2500		
BM (30°-60°)	1992.9	4.9	B2/2500		
BH (60°-80°)	977.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6
2.5°	4444.0	4414.8	4368.0	4350.5	4303.8	4280.4	4245.4	4227.9	4163.6	4099.4	4058.5
5°	4987.0	4917.0	4940.3	4870.2	4718.4	4595.8	4589.9	4455.6	4309.6	4192.8	4035.2
7.5°	5536.0	5477.6	5390.0	5290.7	5121.3	4940.3	4887.8	4759.3	4554.9	4350.5	4140.3
10°	5950.6	5909.7	5833.8	5693.6	5460.0	5255.7	5261.5	5045.4	4829.4	4595.8	4309.6
12.5°	6207.5	6225.0	6114.1	5973.9	5769.5	5512.6	5506.8	5360.8	5115.5	4870.2	4531.5
15°	6464.5	6528.7	6359.3	6195.8	5933.1	5746.2	5781.2	5606.0	5366.6	5086.3	4712.6
17.5°	6505.3	6522.9	6487.8	6248.4	6055.7	5898.0	5903.9	5787.1	5606.0	5302.4	4981.2
20°	6435.3	6423.6	6382.7	6207.5	6079.0	5985.6	5991.5	5962.3	5863.0	5617.7	5179.7
22.5°	6230.9	6230.9	6178.3	6061.5	6003.1	6090.7	6020.6	6131.6	6026.5	5880.5	5518.4
25°	6067.4	6131.6	6102.4	6026.5	6049.8	6166.6	6201.7	6306.8	6289.3	6108.2	5752.0
27.5°	6242.6	6166.6	6184.2	6096.6	6184.2	6359.3	6376.9	6452.8	6446.9	6301.0	5962.3
30°	6359.3	6429.4	6295.1	6102.4	6195.8	6493.7	6482.0	6581.3	6628.0	6452.8	6160.8
32.5°	6733.1	6674.7	6563.7	6306.8	6318.5	6487.8	6540.4	6668.8	6698.0	6592.9	6353.5
35°	7498.1	7410.5	6925.8	6540.4	6482.0	6563.7	6598.8	6849.9	6902.4	6785.6	6557.9
37.5°	8677.7	8479.1	7895.2	7042.6	6779.8	6762.3	6762.3	7095.1	7293.7	7025.1	6861.6
40°	10365.3	10085.0	9454.3	7971.1	7171.1	7241.1	7311.2	7492.2	7468.9	7293.7	7258.6
42.5°	12514.3	12298.2	11615.0	9530.3	7918.5	7568.1	7509.8	7755.0	8122.9	8052.8	8029.5
45°	14307.1	14318.7	13880.8	11667.6	9209.1	8321.5	8362.3	8549.2	9168.2	9115.6	9109.8
47.5°	15615.1	15451.6	15387.4	13728.9	11089.4	9752.2	9693.8	9822.2	10628.1	10961.0	11112.8
50°	16806.4	16695.5	16543.6	15731.9	13349.4	11544.9	11486.5	11498.2	12730.4	13197.5	13571.3
52.5°	18283.9	18424.0	17921.8	17425.4	16275.0	13874.9	13810.7	13583.0	15112.9	15755.3	16199.1
55°	20105.8	19843.0	19276.6	19533.5	19072.2	16391.8	16275.0	16006.4	17828.4	18097.0	18564.2
57.5°	20508.7	20310.2	20894.2	21805.1	22249.0	19346.7	19299.9	18815.3	20111.7	19866.4	21186.1
60°	21513.2	21565.7	22377.4	24187.7	24958.5	22757.0	22529.3	21676.7	22324.9	22371.6	23778.9
62.5°	22546.8	22424.1	24240.3	25980.5	27165.9	25986.3	25910.4	24216.9	24952.7	24357.1	26219.9
65°	21787.6	21974.5	24573.1	27487.1	30027.3	29145.5	29081.3	26663.7	27066.6	26325.0	27212.6
67.5°	19089.7	18710.1	22348.2	26798.0	31498.9	32456.6	32386.5	29332.4	28257.9	26313.3	25151.2
70°	13991.7	13664.7	16631.2	22692.8	29390.8	34150.1	34430.4	31189.4	27773.2	23860.7	19405.1
72.5°	6855.7	6861.6	9320.0	15387.4	23253.4	31125.2	31265.3	28596.6	23860.7	17588.9	10990.2
75°	2026.3	2049.7	3451.2	7544.8	15031.2	23638.8	23796.5	21705.9	16537.8	9086.4	3749.0
77.5°	741.6	741.6	1144.6	2832.2	7498.1	14920.2	14908.6	13326.0	8374.0	3077.5	875.9
80°	385.4	402.9	595.6	1156.2	3246.8	7772.5	8064.5	6522.9	3182.6	1296.4	256.9
82.5°	157.7	175.2	327.0	595.6	1559.2	2727.1	2984.0	2557.8	1384.0	905.1	116.8
85°	46.7	52.6	157.7	332.9	613.2	683.2	759.2	858.4	870.1	700.8	52.6
87.5°	5.8	5.8	64.2	111.0	134.3	146.0	169.3	169.3	443.8	490.5	29.2
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°	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6	3982.6
2.5°	4011.8	3982.6	3935.9	3830.8	3807.4	3731.5	3725.7	3655.6	3679.0	3632.2	3614.7
5°	3982.6	3918.4	3789.9	3708.2	3626.4	3573.8	3538.8	3509.6	3503.8	3480.4	3468.7
7.5°	4035.2	3947.6	3749.0	3620.6	3480.4	3433.7	3357.8	3351.9	3311.1	3270.2	3270.2
10°	4210.4	4052.7	3836.6	3620.6	3439.5	3287.7	3112.5	2984.0	2937.3	2832.2	2843.9
12.5°	4350.5	4210.4	3895.0	3673.1	3398.7	3054.1	2668.7	2370.9	2230.7	2096.4	2149.0
15°	4549.1	4344.7	4006.0	3684.8	3241.0	2645.3	2014.7	1681.8	1553.3	1524.1	1518.3
17.5°	4765.1	4549.1	4146.1	3655.6	2919.8	2043.9	1483.3	1290.6	1313.9	1349.0	1343.1
20°	5004.6	4741.8	4251.2	3556.3	2411.8	1483.3	1214.6	1208.8	1243.8	1296.4	1308.1
22.5°	5255.7	5027.9	4379.7	3258.5	1798.6	1191.3	1167.9	1167.9	1191.3	1255.5	1243.8
25°	5536.0	5232.3	4444.0	2797.2	1290.6	1097.8	1109.5	1132.9	1144.6	1197.1	1203.0
27.5°	5752.0	5460.0	4461.5	2242.4	1051.1	1016.1	1045.3	1074.5	1092.0	1132.9	1150.4
30°	5950.6	5746.2	4368.0	1670.1	963.5	946.0	957.7	998.6	1033.6	1068.7	1068.7
32.5°	6201.7	5909.7	4152.0	1185.4	911.0	881.8	875.9	893.5	934.3	975.2	975.2
35°	6458.6	6184.2	3807.4	951.9	864.3	823.4	800.0	782.5	800.0	829.2	852.6
37.5°	6832.4	6598.8	3375.3	875.9	829.2	770.8	724.1	683.2	654.0	648.2	665.7
40°	7363.8	7065.9	2820.5	823.4	788.3	718.3	648.2	578.1	513.9	473.0	478.8
42.5°	8169.6	7755.0	2219.1	794.2	759.2	659.9	560.6	461.3	379.6	338.7	338.7
45°	9320.0	8666.0	1629.3	765.0	724.1	589.8	461.3	344.5	262.8	239.4	245.3
47.5°	11054.4	9763.8	1167.9	718.3	677.4	513.9	362.1	245.3	192.7	181.0	186.9
50°	13320.2	11066.1	911.0	665.7	619.0	432.1	268.6	181.0	151.8	146.0	151.8
52.5°	15696.9	12380.0	800.0	619.0	531.4	344.5	198.5	146.0	128.5	122.6	128.5
55°	17729.1	13226.7	694.9	548.9	426.3	256.9	157.7	128.5	111.0	93.4	93.4
57.5°	19784.6	13653.0	548.9	455.5	315.3	192.7	134.3	111.0	93.4	75.9	70.1
60°	21454.8	13956.7	391.3	338.7	221.9	151.8	116.8	99.3	75.9	58.4	52.6
62.5°	22552.6	13086.6	286.1	256.9	163.5	128.5	99.3	81.8	58.4	40.9	40.9
65°	22009.5	11883.6	221.9	181.0	122.6	99.3	81.8	58.4	40.9	23.4	17.5
67.5°	19749.6	9682.1	181.0	134.3	93.4	75.9	64.2	46.7	23.4	5.8	5.8
70°	14733.4	7095.1	146.0	99.3	75.9	58.4	46.7	29.2	11.7	5.8	0.0
72.5°	8058.7	3883.3	116.8	81.8	58.4	46.7	35.0	23.4	11.7	0.0	0.0
75°	2662.9	1033.6	87.6	58.4	35.0	29.2	23.4	17.5	5.8	0.0	0.0
77.5°	642.4	268.6	70.1	52.6	29.2	17.5	11.7	5.8	5.8	0.0	0.0
80°	198.5	111.0	52.6	35.0	23.4	17.5	5.8	0.0	0.0	0.0	0.0
82.5°	81.8	52.6	23.4	23.4	17.5	5.8	0.0	0.0	0.0	0.0	0.0
85°	40.9	29.2	17.5	11.7	11.7	5.8	0.0	0.0	0.0	0.0	0.0
87.5°	29.2	11.7	5.8	5.8	0.0	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)