

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: P484827

Luminaire Tested: **IFLD-S-SA3C-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484827
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

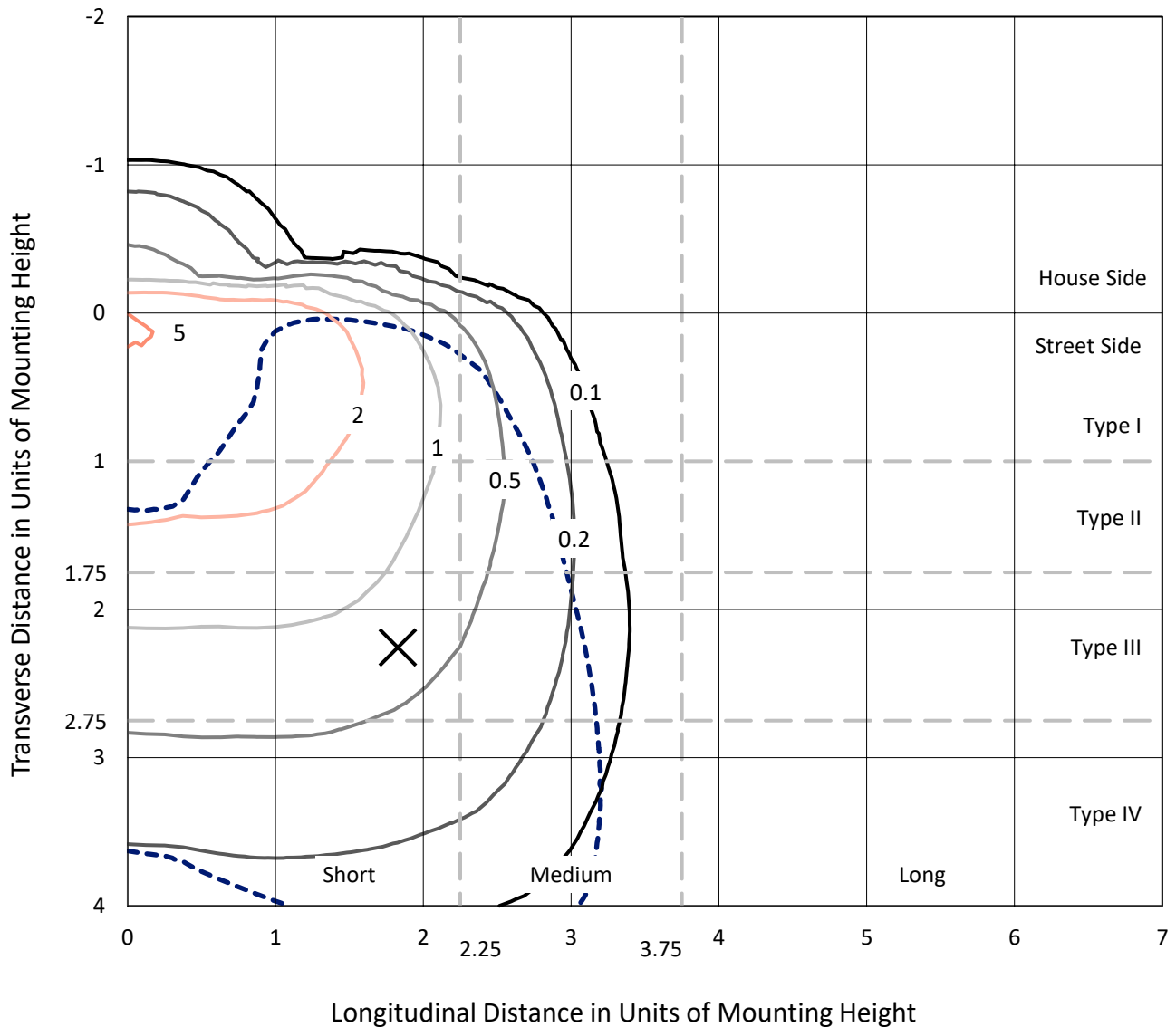
Lumens per Lamp: N/A
Luminaire Lumens: 17899.5 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

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

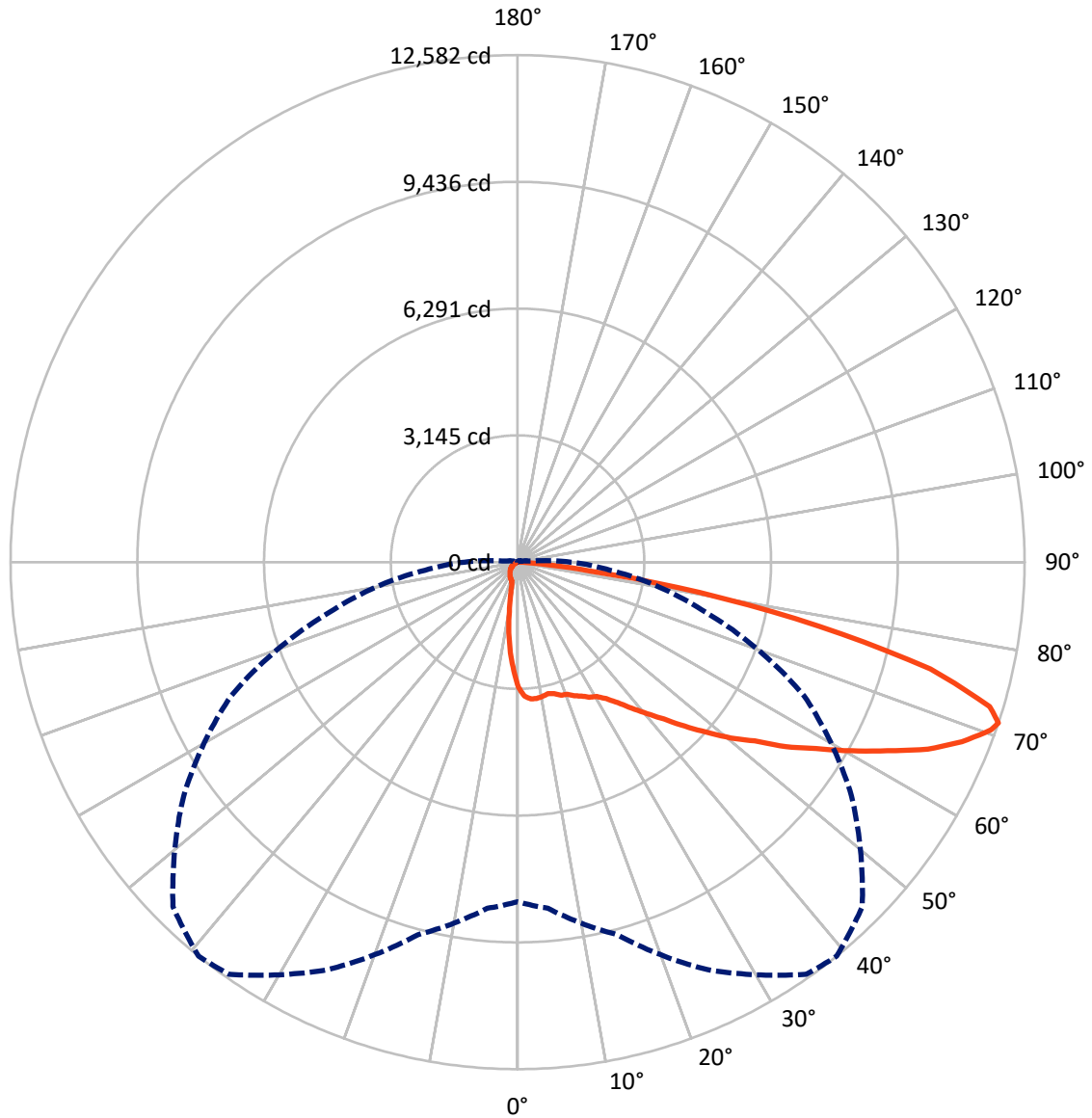
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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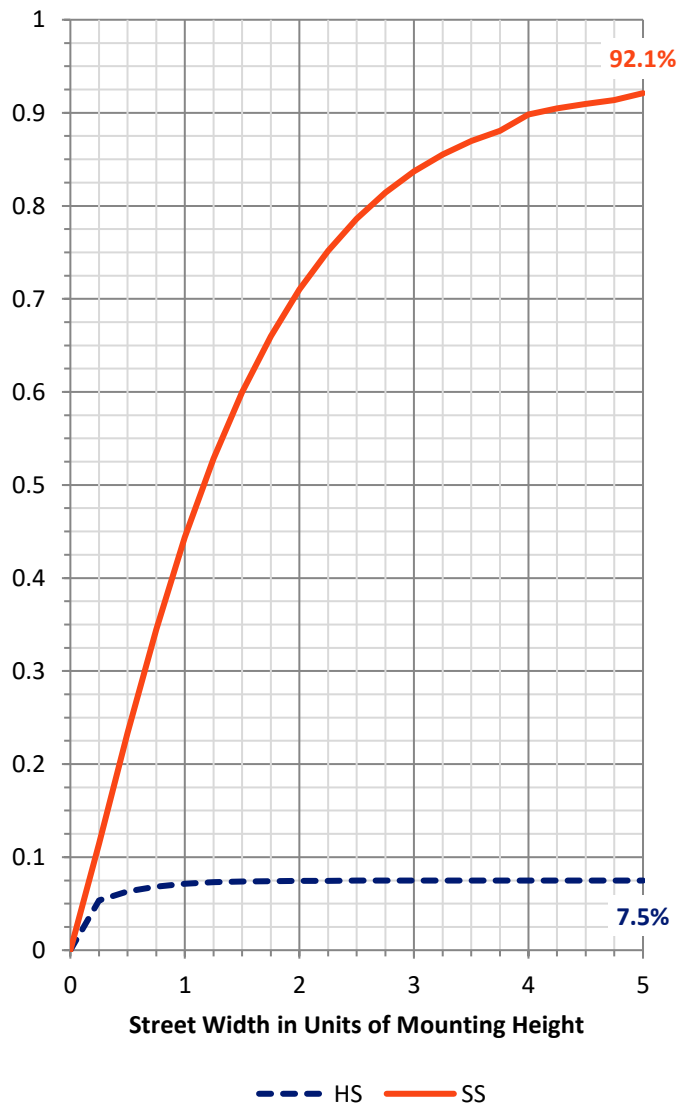
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.5	0.0	1347.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	16552.0	0.0	16552.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	17899.5	0.0	17899.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	1.5
10°-20°	641.1	3.6
20°-30°	1029.2	5.8
30°-40°	1575.5	8.8
40°-50°	2528.9	14.1
50°-60°	3714.6	20.8
60°-70°	4678.4	26.1
70°-80°	3122.3	17.4
80°-90°	348.9	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°	17899.5	100.0
0°-180°	17899.5	100.0

Coefficient of Utilization



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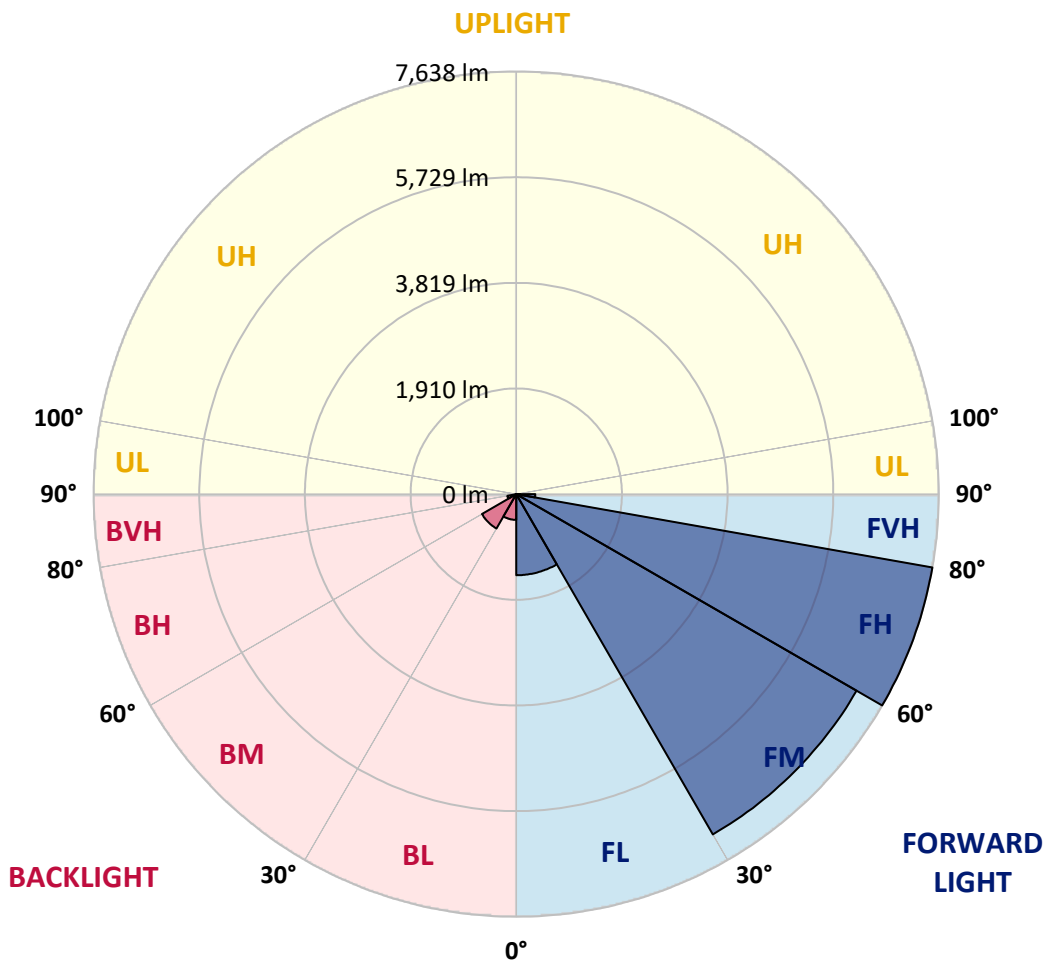
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1465.6	8.2			
FM (30°-60°)	7102.8	39.7			
FH (60°-80°)	7638.5	42.7			G4/12000
FVH (80°-90°)	345.1	1.9			G3/500
BL (0°-30°)	465.2	2.6	B1/500		
BM (30°-60°)	716.3	4.0	B1/1000		
BH (60°-80°)	162.2	0.9	B1/500		G1/500
BVH (80°-90°)	3.8	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5
2.5°	3357.3	3390.2	3357.3	3343.3	3329.2	3331.5	3294.0	3301.0	3256.4	3197.7	3150.7
5°	3463.0	3507.6	3472.4	3456.0	3453.6	3409.0	3390.2	3345.6	3291.6	3200.0	3143.7
7.5°	3453.6	3444.2	3460.7	3446.6	3416.0	3416.0	3394.9	3331.5	3277.5	3174.2	3078.0
10°	3383.2	3411.3	3397.3	3380.8	3387.9	3390.2	3350.3	3305.7	3289.3	3186.0	3028.7
12.5°	3376.1	3329.2	3380.8	3383.2	3352.7	3350.3	3345.6	3333.9	3282.2	3188.3	3040.4
15°	3352.7	3333.9	3385.5	3387.9	3394.9	3387.9	3394.9	3385.5	3333.9	3279.9	3092.0
17.5°	3371.4	3350.3	3423.1	3458.3	3441.9	3474.7	3463.0	3420.7	3376.1	3312.7	3141.4
20°	3376.1	3406.7	3486.5	3500.6	3552.2	3498.2	3495.9	3451.3	3423.1	3355.0	3171.9
22.5°	3463.0	3477.1	3575.7	3606.2	3608.6	3601.5	3542.8	3491.2	3479.4	3394.9	3178.9
25°	3594.5	3643.8	3688.4	3707.2	3714.2	3681.3	3620.3	3554.6	3526.4	3472.4	3251.7
27.5°	3826.9	3796.4	3836.3	3864.5	3784.6	3796.4	3718.9	3662.6	3622.7	3575.7	3336.2
30°	4033.5	4005.3	4007.7	4003.0	3934.9	3871.5	3850.4	3751.8	3702.5	3721.3	3467.7
32.5°	4219.0	4157.9	4209.6	4186.1	4059.3	4040.6	4024.1	3899.7	3909.1	3996.0	3664.9
35°	4390.4	4369.3	4411.5	4369.3	4284.7	4280.0	4263.6	4155.6	4207.3	4331.7	4003.0
37.5°	4547.7	4554.7	4606.4	4585.2	4592.3	4597.0	4587.6	4472.6	4620.5	4899.9	4397.4
40°	4693.2	4683.9	4810.6	4876.4	4890.5	4942.1	4942.1	4913.9	5141.7	5456.3	4944.5
42.5°	4848.2	4871.7	5036.0	5146.4	5280.2	5324.8	5385.8	5399.9	5752.1	6111.3	5503.2
45°	5101.8	5061.9	5270.8	5531.4	5648.8	5806.1	5900.0	5979.8	6404.8	6897.8	6062.0
47.5°	5423.4	5343.6	5526.7	5904.7	6177.1	6306.2	6475.2	6580.9	6996.4	7505.9	6590.3
50°	5780.3	5698.1	5787.3	6308.5	6625.5	6860.3	7076.3	7210.1	7712.5	8186.8	6975.3
52.5°	6184.1	6109.0	6123.1	6728.8	7196.0	7367.4	7651.5	7851.0	8351.1	8597.6	7111.5
55°	6613.7	6595.0	6550.4	7139.7	7696.1	8081.1	8252.5	8492.0	9006.1	8820.7	7259.4
57.5°	7045.7	6987.0	7050.4	7684.3	8499.0	8729.1	8966.2	9109.5	9370.1	9015.5	7203.0
60°	7451.9	7456.6	7545.8	8276.0	9182.2	9508.6	9722.2	9635.4	9743.4	9100.1	7073.9
62.5°	7794.7	7785.3	8010.7	8940.4	10086.1	10306.8	10466.5	10079.1	9917.1	9182.2	6848.5
65°	8102.2	8207.9	8562.4	9731.6	10936.0	11189.6	11093.3	10499.3	10086.1	8940.4	6214.6
67.5°	8334.7	8492.0	9107.1	10475.9	11715.5	11893.9	11760.1	10818.6	9886.6	7991.9	5061.9
70°	8470.9	8630.5	9496.8	11095.7	12337.7	12466.8	12152.2	10572.1	8722.1	5787.3	3157.8
71°	8428.6	8623.5	9572.0	11161.4	12485.6	12581.8	12093.5	10116.7	7844.0	4845.9	2303.2
72.5°	8045.9	8229.0	9259.7	11114.5	12307.2	12248.5	11635.7	9022.6	6174.7	3089.7	1190.3
75°	5911.8	6109.0	7947.3	9614.2	10985.3	10581.5	9417.0	6332.0	3221.2	946.2	347.5
77.5°	2944.1	2977.0	4932.7	6980.0	8057.6	7656.2	6310.9	3531.1	1204.4	279.4	173.7
80°	1357.0	1366.4	1850.1	3615.6	4871.7	4585.2	3535.8	1742.1	544.7	147.9	136.2
82.5°	925.0	939.1	1115.2	1497.9	2115.4	1784.3	1432.2	1115.2	312.3	89.2	133.8
85°	169.0	155.0	624.5	793.6	817.0	554.1	495.4	964.9	117.4	51.7	117.4
87.5°	0.0	2.3	86.9	324.0	291.1	129.1	169.0	234.8	11.7	16.4	21.1
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°	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5
2.5°	3110.8	3085.0	2998.1	2901.9	2815.0	2746.9	2660.1	2620.1	2556.8	2521.5	2519.2
5°	3066.2	2995.8	2845.5	2683.5	2502.8	2352.5	2185.8	2091.9	1983.9	1951.0	1944.0
7.5°	2991.1	2890.1	2669.4	2441.7	2164.7	1899.4	1695.1	1476.8	1342.9	1286.6	1265.5
10°	2944.1	2822.1	2521.5	2181.1	1793.7	1420.4	1134.0	901.6	779.5	720.8	706.7
12.5°	2944.1	2812.7	2401.8	1932.2	1418.1	972.0	702.0	568.2	528.3	514.2	514.2
15°	2937.1	2793.9	2286.8	1676.3	1049.5	652.7	523.6	495.4	490.7	488.3	486.0
17.5°	2972.3	2761.0	2169.4	1401.6	741.9	514.2	481.3	476.6	471.9	471.9	467.2
20°	2998.1	2742.2	2028.5	1110.5	554.1	476.6	462.5	455.5	453.1	450.8	455.5
22.5°	2977.0	2714.1	1854.8	831.1	483.6	453.1	443.7	436.7	432.0	432.0	434.3
25°	3016.9	2688.2	1681.0	626.9	453.1	432.0	422.6	417.9	415.6	413.2	408.5
27.5°	3070.9	2700.0	1474.4	504.8	427.3	410.9	401.5	396.8	394.4	389.7	394.4
30°	3136.7	2697.6	1246.7	441.4	403.8	387.4	378.0	375.6	371.0	368.6	371.0
32.5°	3249.4	2758.7	1011.9	408.5	378.0	363.9	354.5	352.2	349.8	347.5	345.1
35°	3491.2	2833.8	791.2	382.7	354.5	338.1	331.0	326.3	324.0	321.6	319.3
37.5°	3789.3	3000.5	603.4	359.2	331.0	314.6	307.6	305.2	295.8	293.5	291.1
40°	4162.6	3178.9	464.9	333.4	309.9	293.5	286.4	279.4	267.6	263.0	258.3
42.5°	4627.5	3352.7	382.7	309.9	286.4	274.7	263.0	251.2	241.8	232.4	227.7
45°	5092.4	3554.6	335.7	288.8	267.6	253.6	244.2	227.7	211.3	197.2	194.9
47.5°	5479.8	3627.3	307.6	265.3	248.9	237.1	223.0	201.9	178.4	164.3	162.0
50°	5768.5	3585.1	279.4	241.8	227.7	216.0	197.2	171.4	147.9	133.8	129.1
52.5°	5824.9	3399.6	253.6	223.0	206.6	192.5	171.4	143.2	117.4	103.3	101.0
55°	5785.0	3092.0	232.4	206.6	187.8	166.7	143.2	115.0	91.6	77.5	75.1
57.5°	5702.8	2728.1	209.0	185.5	164.3	143.2	117.4	93.9	68.1	54.0	54.0
60°	5423.4	2232.8	185.5	162.0	140.9	122.1	96.3	68.1	47.0	35.2	32.9
62.5°	5033.7	1716.2	162.0	138.5	122.1	101.0	75.1	49.3	28.2	18.8	18.8
65°	4322.3	1202.1	136.2	115.0	101.0	82.2	56.3	30.5	16.4	7.0	7.0
67.5°	3284.6	744.3	112.7	96.3	86.9	65.7	39.9	18.8	7.0	2.3	0.0
70°	1885.3	387.4	89.2	77.5	68.1	49.3	28.2	9.4	4.7	0.0	0.0
71°	1317.1	286.4	79.8	68.1	61.0	44.6	23.5	7.0	2.3	0.0	0.0
72.5°	659.7	190.2	68.1	56.3	49.3	35.2	18.8	7.0	2.3	0.0	0.0
75°	234.8	122.1	47.0	37.6	35.2	25.8	11.7	4.7	2.3	0.0	0.0
77.5°	162.0	98.6	32.9	23.5	23.5	16.4	7.0	2.3	2.3	0.0	0.0
80°	147.9	54.0	21.1	14.1	11.7	9.4	4.7	2.3	0.0	0.0	0.0
82.5°	147.9	39.9	11.7	9.4	7.0	4.7	2.3	0.0	0.0	0.0	0.0
85°	103.3	21.1	7.0	7.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	7.0	4.7	2.3	2.3	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)