

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: P482425

Luminaire Tested: **IFLD-S-SA6D-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482425
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

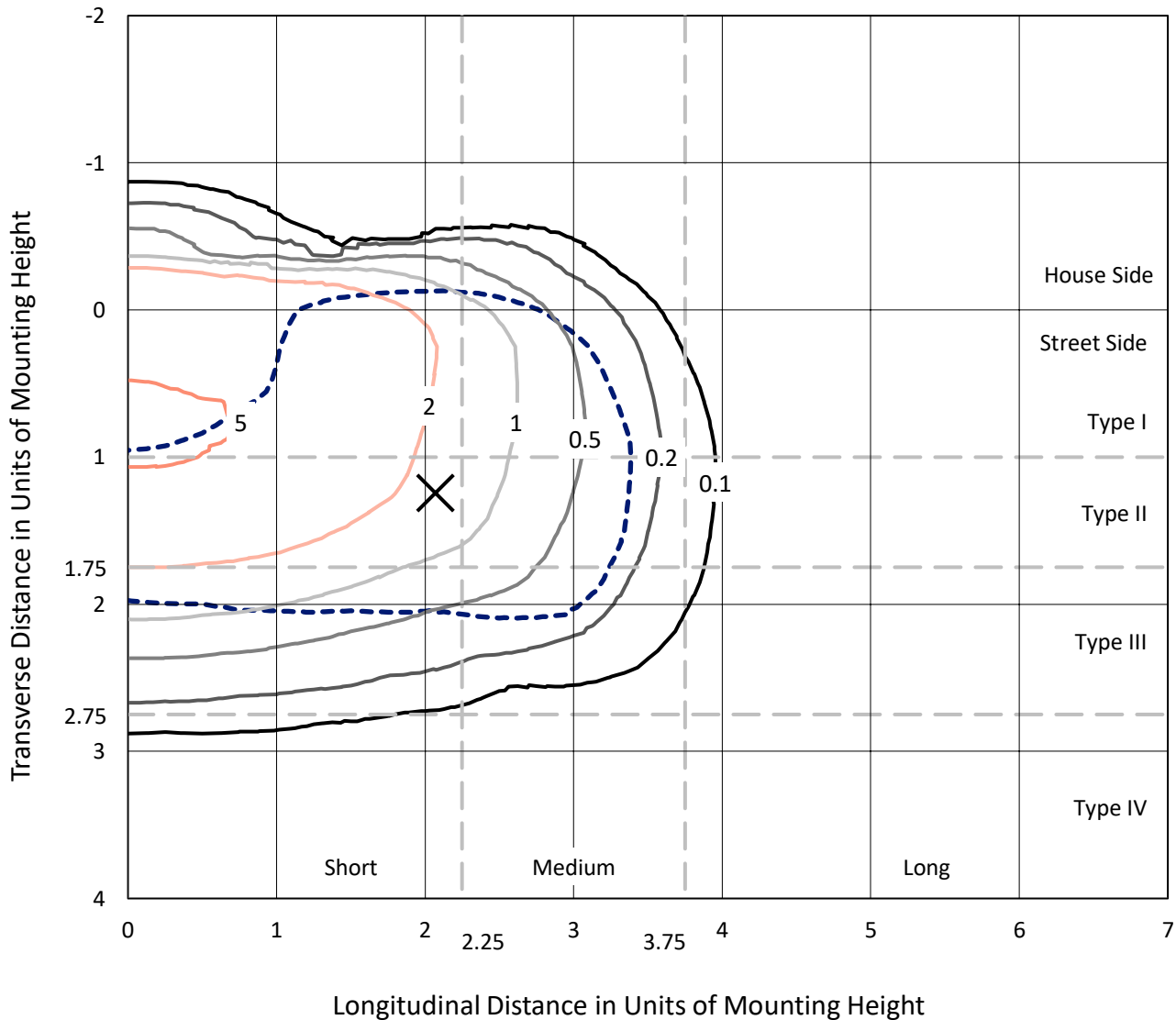
Lumens per Lamp: N/A
Luminaire Lumens: 33461.9 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (A_{in}): 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

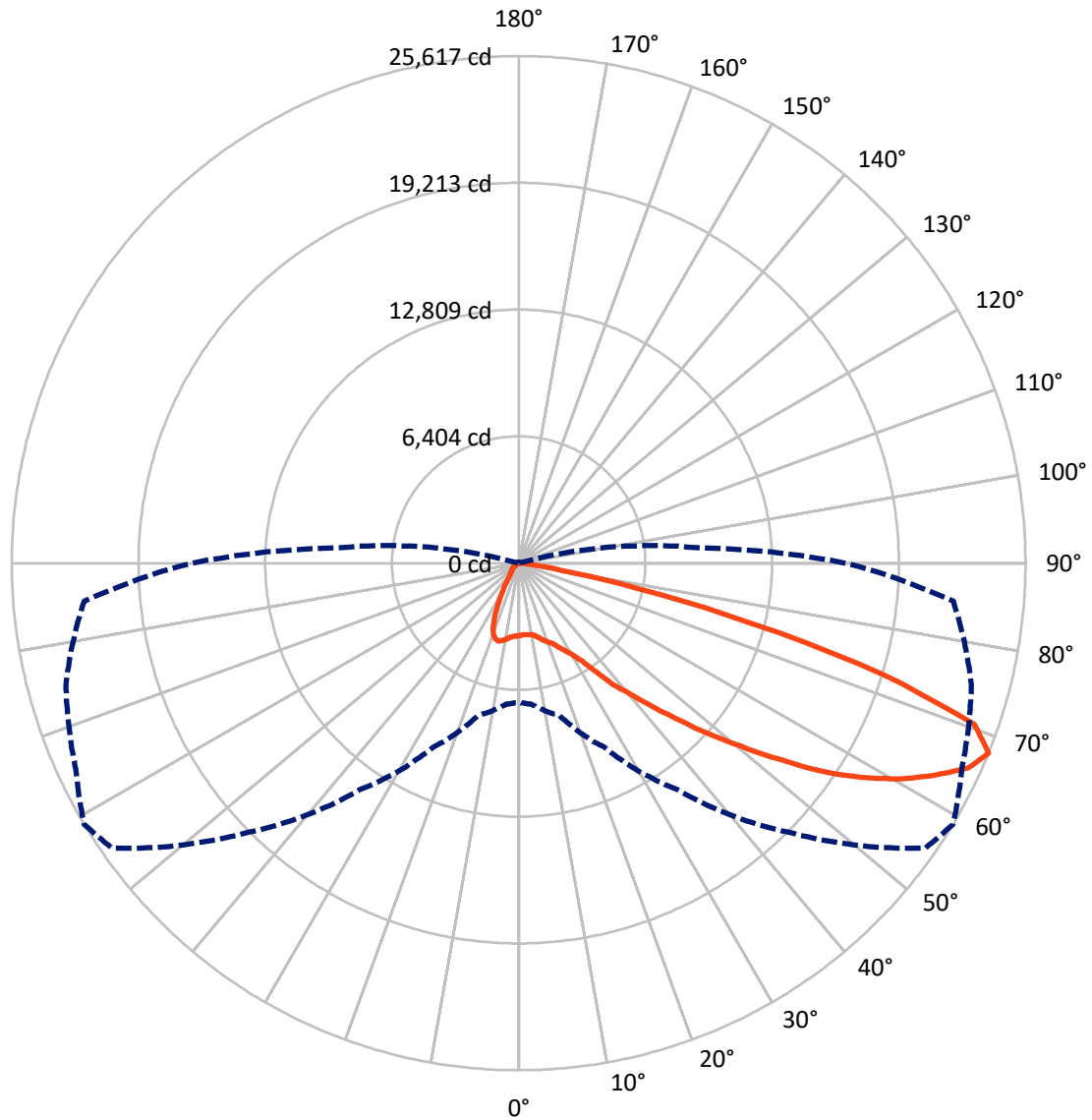
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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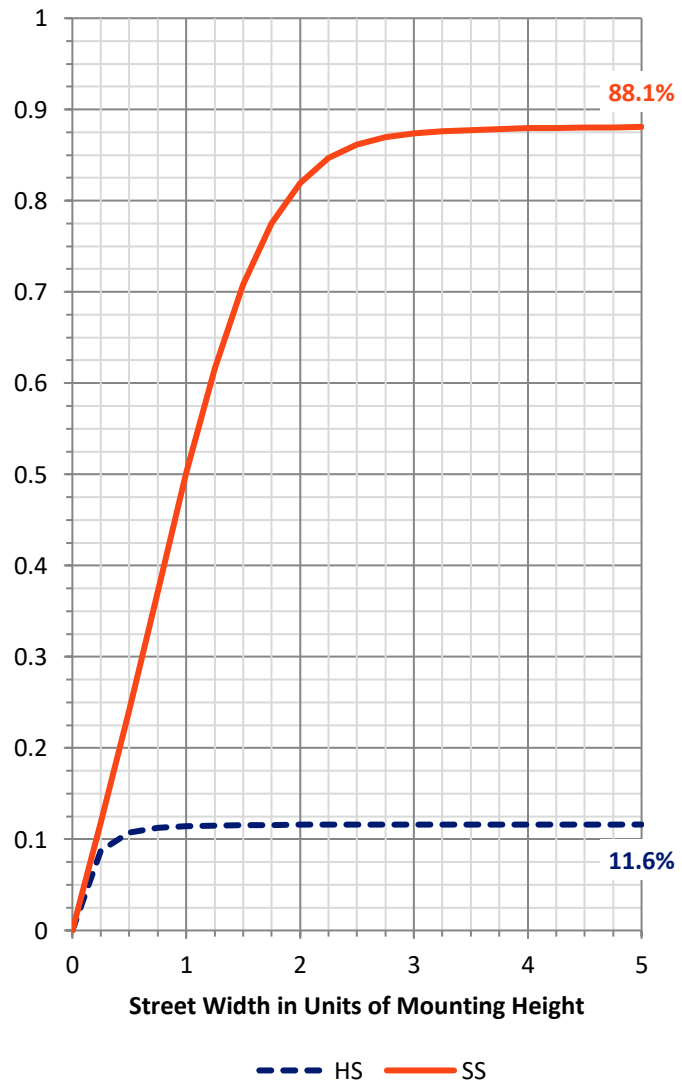
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3930.7	0.0	3930.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	29531.2	0.0	29531.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	33461.9	0.0	33461.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.6	1.0
10°-20°	1007.0	3.0
20°-30°	1760.1	5.3
30°-40°	3098.8	9.3
40°-50°	5477.7	16.4
50°-60°	8673.1	25.9
60°-70°	9620.9	28.8
70°-80°	3338.2	10.0
80°-90°	137.5	0.4
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°	33461.9	100.0
0°-180°	33461.9	100.0

Coefficient of Utilization

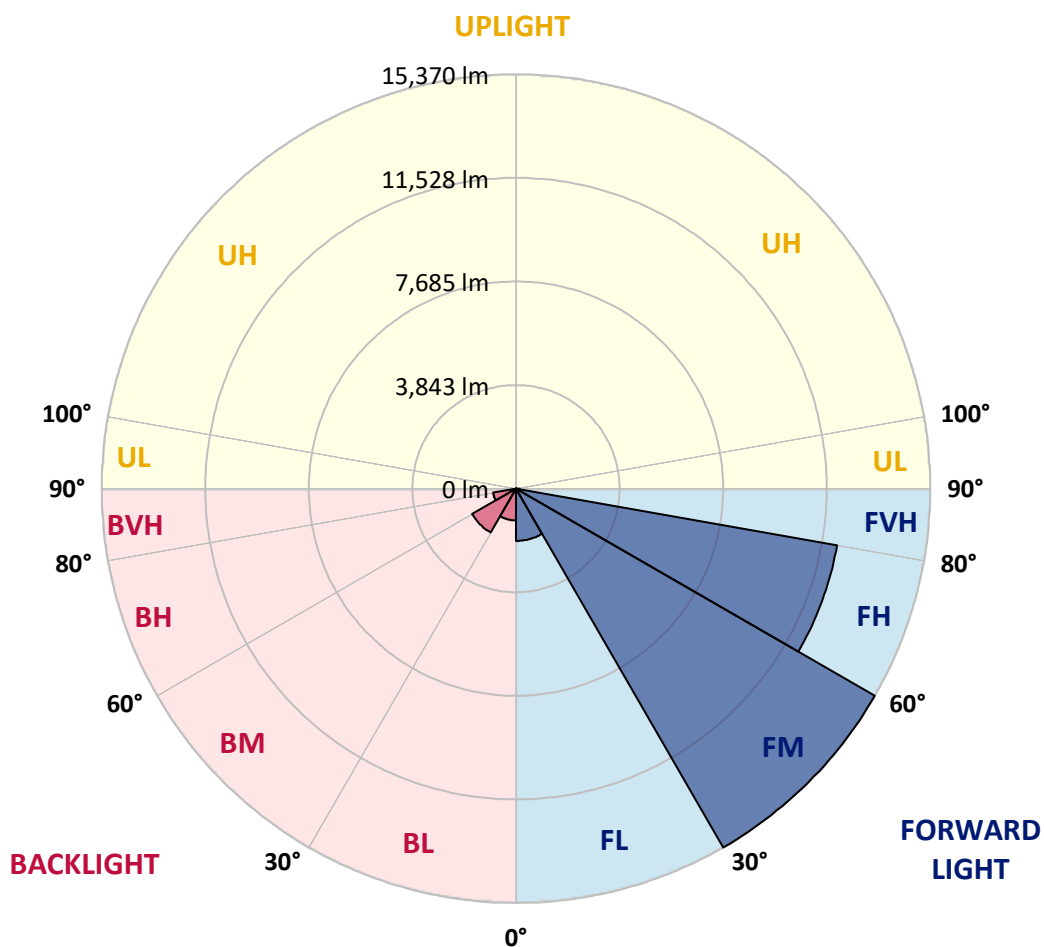


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.7	5.8			
FM (30°-60°)	15370.3	45.9			
FH (60°-80°)	12094.7	36.1			G5
FVH (80°-90°)	128.6	0.4			G2/225
BL (0°-30°)	1178.0	3.5	B3/2500		
BM (30°-60°)	1879.3	5.6	B2/2500		
BH (60°-80°)	864.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2
2.5°	3563.9	3513.0	3559.2	3563.9	3568.5	3610.1	3656.3	3623.9	3619.3	3656.3	3688.7
5°	3420.6	3397.5	3452.9	3480.7	3526.9	3563.9	3637.8	3642.4	3647.1	3688.7	3744.1
7.5°	3360.5	3305.0	3369.7	3402.1	3434.4	3522.3	3610.1	3656.3	3721.0	3771.9	3827.3
10°	3240.3	3281.9	3300.4	3355.8	3448.3	3550.0	3656.3	3679.4	3822.7	3864.3	3998.4
12.5°	3281.9	3309.6	3346.6	3360.5	3462.2	3614.7	3758.0	3767.2	3915.2	4095.4	4164.8
15°	3388.2	3369.7	3383.6	3402.1	3522.3	3647.1	3878.2	3919.8	4058.5	4261.8	4432.9
17.5°	3614.7	3582.3	3559.2	3554.6	3582.3	3697.9	3970.6	4095.4	4224.9	4502.2	4590.0
20°	4183.3	4155.5	4063.1	3822.7	3739.5	3785.7	4081.6	4257.2	4437.5	4747.2	4890.5
22.5°	5047.6	5075.4	4858.1	4520.7	4174.0	3993.7	4257.2	4409.8	4696.3	5089.2	5218.7
25°	6069.2	6013.7	5750.2	5357.3	4811.9	4386.6	4539.2	4710.2	5061.5	5385.1	5435.9
27.5°	6868.9	6804.1	6600.8	6124.7	5653.2	4964.4	4909.0	5015.3	5431.3	5722.5	5667.0
30°	7659.3	7682.4	7543.7	6979.8	6397.4	5671.7	5320.4	5366.6	5685.5	6059.9	5935.1
32.5°	8667.0	8611.5	8532.9	8038.3	7349.6	6573.0	5972.1	5898.2	6036.8	6531.4	6383.5
35°	9605.3	9573.0	9466.6	8967.4	8366.5	7520.6	6933.6	6767.2	6734.8	7284.9	7026.0
37.5°	10423.5	10368.0	10206.2	9887.3	9304.9	8593.0	7950.5	7802.6	7798.0	8177.0	7677.8
40°	11112.2	11153.8	11135.3	10784.0	10465.1	9896.5	8912.0	8676.2	8657.7	8861.1	8569.9
42.5°	12004.3	12101.4	12050.5	11981.2	11597.6	11375.7	10261.7	9901.1	9739.4	10155.4	9891.9
45°	13354.1	13391.0	13423.4	13252.4	12868.7	12914.9	11657.6	11227.8	11186.2	11805.6	11213.9
47.5°	14616.0	14518.9	14745.4	14754.6	14736.2	14523.5	13164.5	12845.6	12901.1	13372.6	12762.4
50°	14930.3	15179.9	15803.9	15919.5	16219.9	16414.1	14837.8	14518.9	14611.3	15147.5	14449.6
52.5°	15175.3	15554.3	16178.3	17024.2	17833.1	18295.4	16709.9	16451.1	16446.4	16774.6	15813.2
55°	15605.2	15836.3	16377.1	17541.9	19081.2	19839.3	18965.6	18549.6	18175.2	18406.3	17227.6
57.5°	15563.6	15651.4	16492.7	17930.2	20070.4	21447.9	20819.2	20421.7	19941.0	19806.9	18854.7
60°	14833.2	15041.2	15984.2	17666.7	20680.5	22700.5	22548.0	22141.2	21313.8	20999.5	20102.7
62.5°	13386.4	13663.8	14403.3	16742.3	19793.0	22765.2	23740.6	23588.0	22663.5	22099.6	21729.8
65°	10848.7	10978.2	11828.7	14394.1	17786.9	21771.4	25150.4	24960.9	24110.3	23269.1	22566.5
67.5°	7026.0	7150.8	7969.0	10275.6	13968.8	19206.0	25094.9	25617.2	24697.4	23685.1	22044.1
70°	3318.9	3286.5	4049.2	5708.6	8948.9	14666.8	23398.5	24429.3	23648.1	21471.0	18309.3
72.5°	1012.3	1100.1	1682.5	2528.4	4594.6	9147.7	18341.6	19307.7	19062.7	17153.7	12221.6
75°	448.4	485.4	661.0	1035.4	1862.8	3753.4	11329.5	12189.2	12082.9	10118.4	5579.2
77.5°	286.6	314.3	416.0	591.7	845.9	1192.6	5218.7	6055.3	5870.4	3554.6	1460.7
80°	203.4	217.3	295.8	406.8	531.6	490.0	1798.1	2135.5	2047.7	966.1	392.9
82.5°	110.9	120.2	217.3	300.5	355.9	249.6	503.8	628.6	656.4	429.9	189.5
85°	41.6	50.8	134.0	212.6	184.9	115.6	147.9	180.3	235.7	235.7	87.8
87.5°	0.0	4.6	55.5	92.4	46.2	32.4	41.6	50.8	64.7	110.9	32.4
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°	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2
2.5°	3711.8	3679.4	3693.3	3716.4	3665.5	3693.3	3637.8	3679.4	3693.3	3637.8	3665.5
5°	3758.0	3790.4	3771.9	3734.9	3702.5	3711.8	3697.9	3665.5	3693.3	3702.5	3684.0
7.5°	3892.0	3855.1	3864.3	3822.7	3758.0	3753.4	3665.5	3642.4	3651.7	3660.9	3628.6
10°	4016.8	4040.0	3993.7	3961.4	3855.1	3785.7	3665.5	3536.1	3522.3	3466.8	3513.0
12.5°	4238.7	4183.3	4164.8	4058.5	3952.1	3721.0	3462.2	3263.4	3097.0	3036.9	2976.8
15°	4423.6	4414.4	4382.0	4220.2	3975.2	3554.6	3064.6	2602.4	2283.5	2084.7	2057.0
17.5°	4677.9	4636.2	4576.2	4321.9	3804.2	3120.1	2283.5	1701.0	1382.1	1257.3	1211.1
20°	4872.0	4839.6	4756.4	4298.8	3494.5	2325.1	1414.4	1081.6	1003.1	979.9	984.6
22.5°	5154.0	5052.3	4895.1	4183.3	2930.6	1548.5	1016.9	966.1	952.2	933.7	938.3
25°	5398.9	5306.5	4978.3	3984.5	2089.3	1026.2	943.0	915.2	892.1	869.0	864.4
27.5°	5616.2	5500.6	5066.1	3577.7	1308.1	882.9	873.6	841.3	795.0	758.1	744.2
30°	5828.8	5694.8	5089.2	2815.0	882.9	799.7	776.6	725.7	665.6	614.8	605.5
32.5°	6184.7	6023.0	5056.9	2010.7	762.7	711.8	661.0	600.9	513.1	471.5	462.2
35°	6739.4	6494.4	5015.3	1183.3	684.1	628.6	550.1	471.5	406.8	365.2	355.9
37.5°	7377.3	6952.1	4895.1	790.4	628.6	554.7	453.0	374.4	318.9	286.6	277.3
40°	8324.9	7622.3	4432.9	647.1	559.3	471.5	365.2	295.8	254.2	231.1	221.9
42.5°	9369.6	8389.6	3721.0	582.4	494.6	402.1	291.2	240.4	208.0	184.9	184.9
45°	10622.2	9189.3	2870.5	531.6	439.1	332.8	240.4	194.1	166.4	147.9	138.7
47.5°	12018.2	9915.0	1936.8	480.7	369.8	272.7	198.8	147.9	120.2	106.3	106.3
50°	13266.2	10557.5	1234.2	420.6	323.6	226.5	161.8	120.2	97.1	78.6	74.0
52.5°	14398.7	11047.5	850.5	369.8	277.3	184.9	134.0	97.1	74.0	60.1	60.1
55°	15558.9	11297.1	628.6	318.9	240.4	157.2	110.9	87.8	64.7	50.8	46.2
57.5°	16511.1	11403.4	480.7	277.3	203.4	124.8	97.1	74.0	55.5	41.6	37.0
60°	17324.7	11352.6	374.4	231.1	161.8	106.3	83.2	60.1	46.2	32.4	27.7
62.5°	17800.8	11047.5	295.8	198.8	129.4	92.4	69.3	50.8	32.4	23.1	18.5
65°	17810.0	10400.4	231.1	147.9	97.1	78.6	60.1	41.6	23.1	9.2	4.6
67.5°	16534.3	8999.8	184.9	115.6	78.6	60.1	46.2	32.4	9.2	0.0	0.0
70°	12933.4	6808.8	152.5	92.4	64.7	50.8	32.4	18.5	4.6	0.0	0.0
72.5°	8241.7	4076.9	124.8	74.0	55.5	37.0	23.1	13.9	0.0	0.0	0.0
75°	3448.3	1257.3	97.1	64.7	41.6	27.7	18.5	4.6	0.0	0.0	0.0
77.5°	887.5	397.5	78.6	55.5	41.6	23.1	13.9	4.6	0.0	0.0	0.0
80°	263.5	147.9	64.7	46.2	32.4	18.5	9.2	4.6	0.0	0.0	0.0
82.5°	120.2	87.8	55.5	41.6	27.7	18.5	9.2	0.0	0.0	0.0	0.0
85°	46.2	27.7	27.7	23.1	23.1	13.9	4.6	0.0	0.0	0.0	0.0
87.5°	18.5	9.2	9.2	9.2	4.6	4.6	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)