

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: P482477

Luminaire Tested: **IFLD-L-SA8B-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482477
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

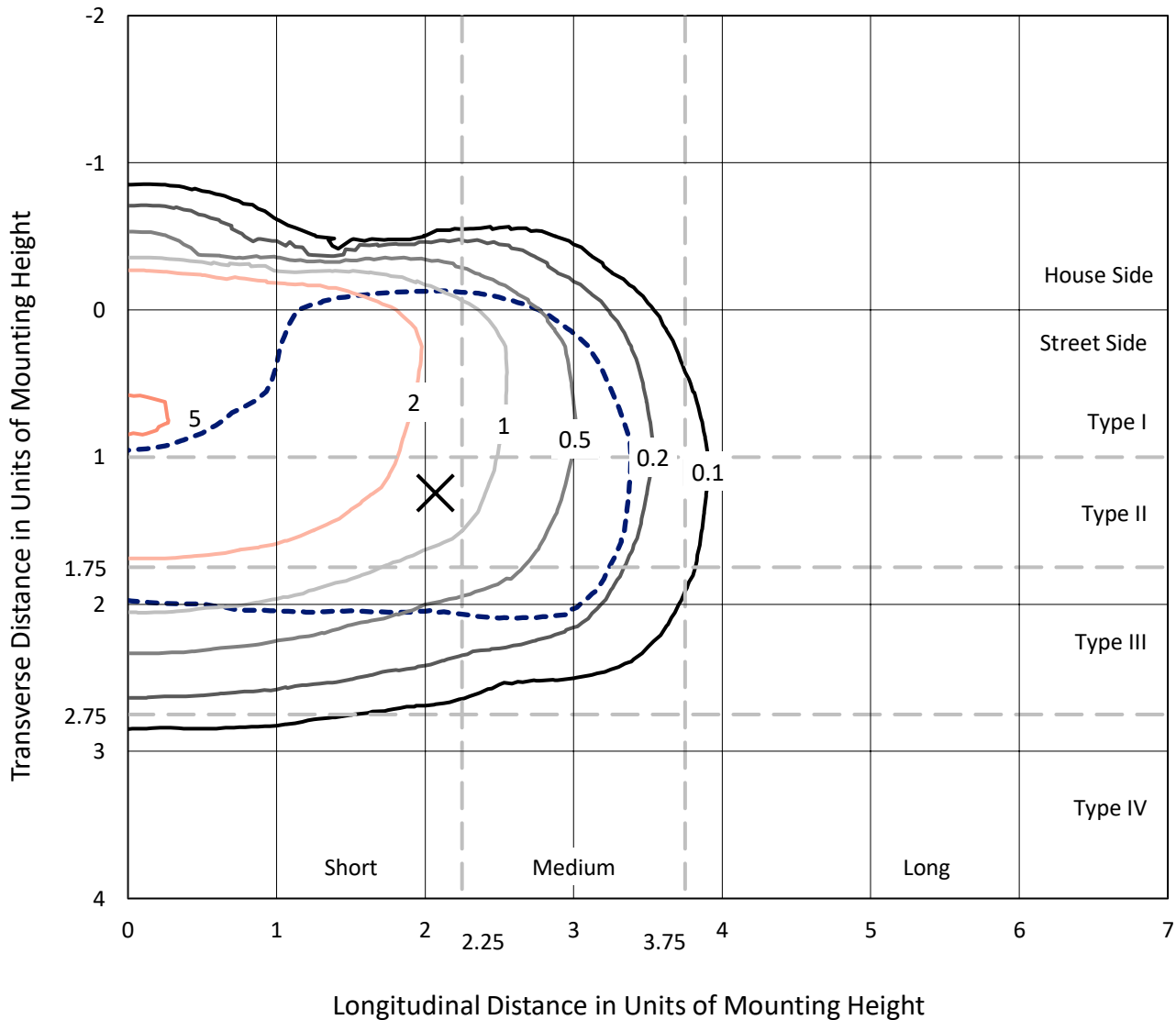
Lumens per Lamp: N/A
Luminaire Lumens: 30199.4 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

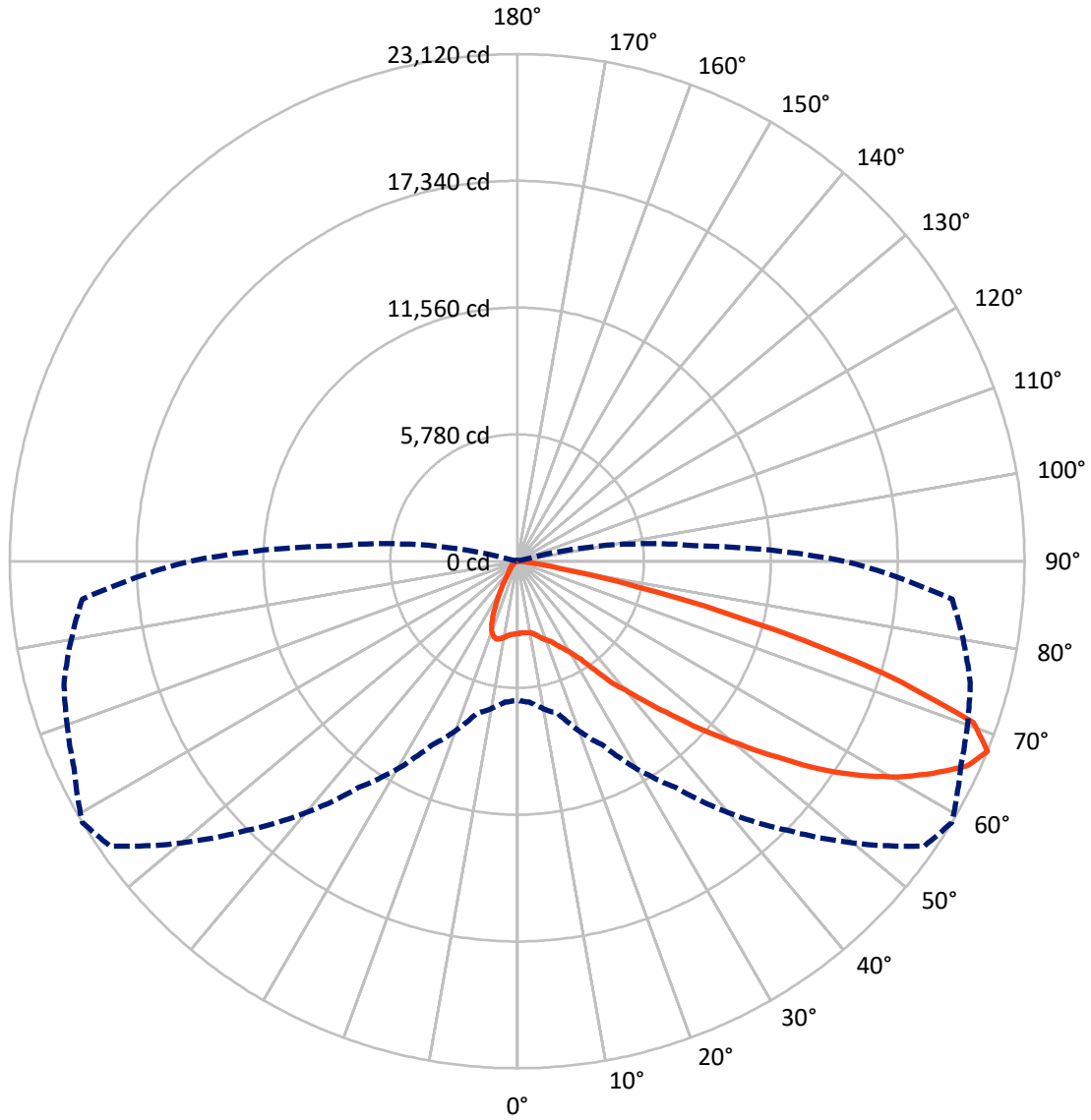
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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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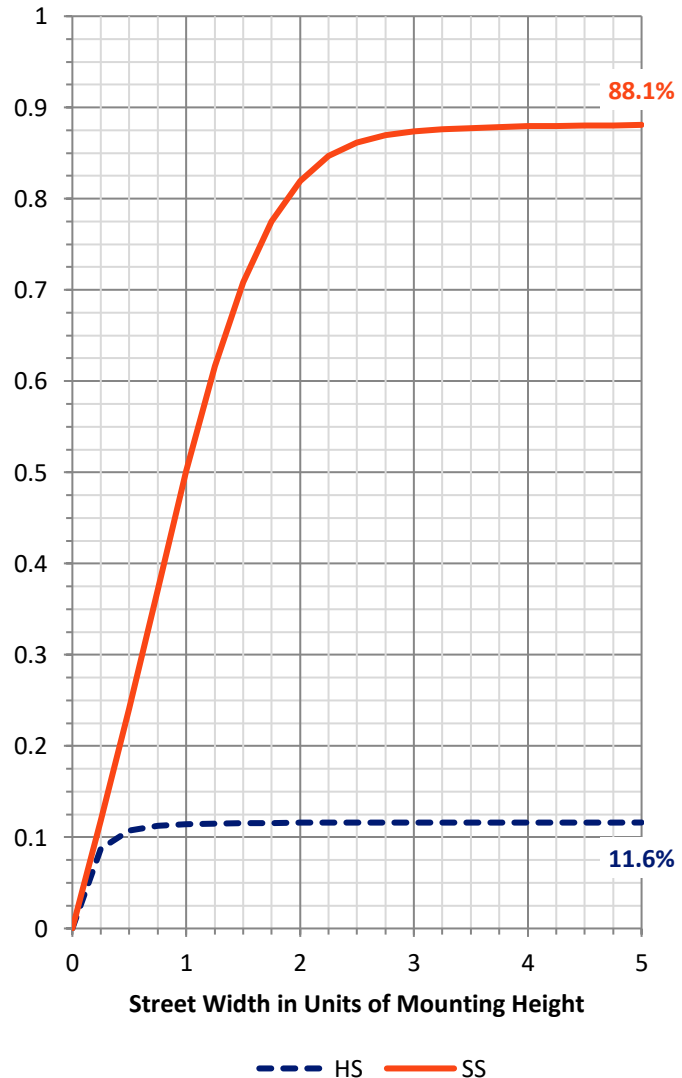
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3547.4	0.0	3547.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	26652.0	0.0	26652.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	30199.4	0.0	30199.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	1.0
10°-20°	908.9	3.0
20°-30°	1588.5	5.3
30°-40°	2796.7	9.3
40°-50°	4943.6	16.4
50°-60°	7827.5	25.9
60°-70°	8682.9	28.8
70°-80°	3012.8	10.0
80°-90°	124.1	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°	30199.4	100.0
0°-180°	30199.4	100.0

Coefficient of Utilization

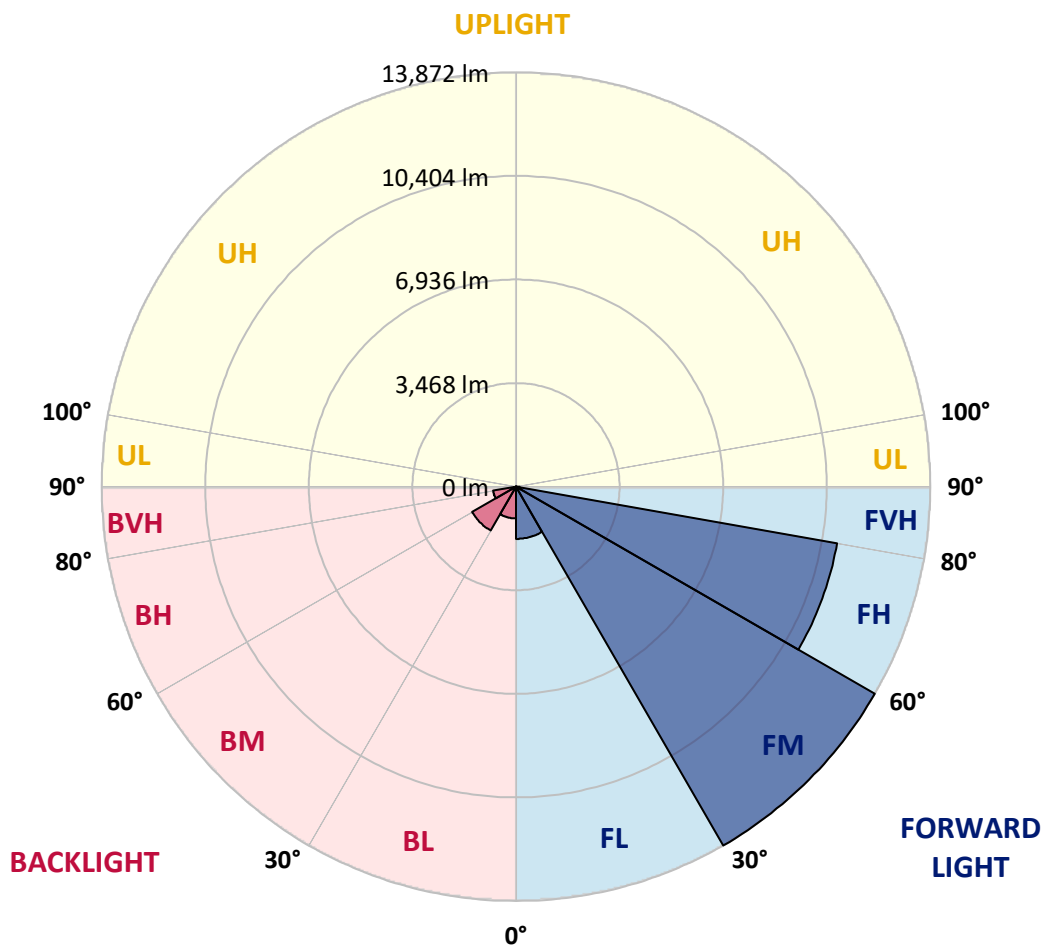


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.8	5.8			
FM (30°-60°)	13871.7	45.9			
FH (60°-80°)	10915.5	36.1			G4/12000
FVH (80°-90°)	116.0	0.4			G2/225
BL (0°-30°)	1063.2	3.5	B3/2500		
BM (30°-60°)	1696.1	5.6	B2/2500		
BH (60°-80°)	780.1	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3
2.5°	3216.4	3170.5	3212.2	3216.4	3220.6	3258.1	3299.8	3270.6	3266.4	3299.8	3329.0
5°	3087.1	3066.2	3116.3	3141.3	3183.0	3216.4	3283.1	3287.3	3291.5	3329.0	3379.1
7.5°	3032.8	2982.8	3041.2	3070.4	3099.6	3178.8	3258.1	3299.8	3358.2	3404.1	3454.2
10°	2924.4	2961.9	2978.6	3028.7	3112.1	3203.9	3299.8	3320.7	3450.0	3487.5	3608.5
12.5°	2961.9	2986.9	3020.3	3032.8	3124.6	3262.3	3391.6	3399.9	3533.4	3696.1	3758.7
15°	3057.9	3041.2	3053.7	3070.4	3178.8	3291.5	3500.1	3537.6	3662.8	3846.3	4000.7
17.5°	3262.3	3233.1	3212.2	3208.0	3233.1	3337.4	3583.5	3696.1	3812.9	4063.2	4142.5
20°	3775.4	3750.4	3666.9	3450.0	3374.9	3416.6	3683.6	3842.1	4004.8	4284.3	4413.7
22.5°	4555.5	4580.5	4384.5	4079.9	3767.0	3604.4	3842.1	3979.8	4238.5	4593.0	4709.9
25°	5477.4	5427.4	5189.6	4835.0	4342.7	3958.9	4096.6	4251.0	4568.0	4860.0	4905.9
27.5°	6199.2	6140.7	5957.2	5527.5	5102.0	4480.4	4430.3	4526.3	4901.8	5164.6	5114.5
30°	6912.5	6933.4	6808.2	6299.3	5773.6	5118.7	4801.6	4843.3	5131.2	5469.1	5356.5
32.5°	7821.9	7771.9	7701.0	7254.6	6633.0	5932.2	5389.8	5323.1	5448.2	5894.6	5761.1
35°	8668.8	8639.6	8543.6	8093.1	7550.8	6787.4	6257.6	6107.4	6078.2	6574.6	6341.0
37.5°	9407.2	9357.1	9211.1	8923.3	8397.6	7755.2	7175.3	7041.8	7037.7	7379.7	6929.2
40°	10028.8	10066.3	10049.6	9732.6	9444.7	8931.6	8043.0	7830.3	7813.6	7997.2	7734.3
42.5°	10833.9	10921.5	10875.6	10813.1	10466.8	10266.6	9261.2	8935.8	8789.8	9165.2	8927.4
45°	12052.1	12085.4	12114.6	11960.3	11614.0	11655.7	10521.0	10133.1	10095.5	10654.5	10120.6
47.5°	13190.9	13103.3	13307.7	13316.1	13299.4	13107.5	11881.0	11593.2	11643.2	12068.7	11518.1
50°	13474.6	13699.9	14263.1	14367.3	14638.5	14813.7	13391.2	13103.3	13186.8	13670.7	13040.7
52.5°	13695.7	14037.8	14601.0	15364.4	16094.4	16511.6	15080.7	14847.1	14842.9	15139.1	14271.4
55°	14083.7	14292.3	14780.3	15831.6	17220.8	17905.0	17116.5	16741.0	16403.1	16611.7	15547.9
57.5°	14046.1	14125.4	14884.6	16182.0	18113.5	19356.7	18789.4	18430.6	17996.7	17875.8	17016.4
60°	13387.0	13574.7	14425.8	15944.3	18664.2	20487.2	20349.6	19982.5	19235.7	18952.1	18142.7
62.5°	12081.3	12331.6	12999.0	15109.9	17863.2	20545.6	21425.9	21288.2	20453.9	19944.9	19611.2
65°	9791.0	9907.8	10675.4	12990.7	16052.7	19648.7	22698.2	22527.2	21759.6	21000.4	20366.3
67.5°	6341.0	6453.6	7192.0	9273.7	12606.9	17333.4	22648.2	23119.6	22289.4	21375.8	19894.9
70°	2995.3	2966.1	3654.4	5152.1	8076.4	13236.8	21117.2	22047.5	21342.4	19377.6	16524.1
72.5°	913.6	992.9	1518.5	2281.9	4146.7	8255.8	16553.3	17425.2	17204.1	15481.2	11030.0
75°	404.7	438.0	596.6	934.5	1681.2	3387.4	10224.8	11000.8	10904.8	9131.9	5035.2
77.5°	258.6	283.7	375.5	534.0	763.4	1076.3	4709.9	5464.9	5298.1	3208.0	1318.3
80°	183.6	196.1	267.0	367.1	479.7	442.2	1622.8	1927.3	1848.1	871.9	354.6
82.5°	100.1	108.5	196.1	271.2	321.2	225.3	454.7	567.4	592.4	388.0	171.0
85°	37.5	45.9	121.0	191.9	166.9	104.3	133.5	162.7	212.8	212.8	79.3
87.5°	0.0	4.2	50.1	83.4	41.7	29.2	37.5	45.9	58.4	100.1	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°	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3
2.5°	3349.9	3320.7	3333.2	3354.0	3308.2	3333.2	3283.1	3320.7	3333.2	3283.1	3308.2
5°	3391.6	3420.8	3404.1	3370.7	3341.5	3349.9	3337.4	3308.2	3333.2	3341.5	3324.8
7.5°	3512.6	3479.2	3487.5	3450.0	3391.6	3387.4	3308.2	3287.3	3295.6	3304.0	3274.8
10°	3625.2	3646.1	3604.4	3575.2	3479.2	3416.6	3308.2	3191.4	3178.8	3128.8	3170.5
12.5°	3825.5	3775.4	3758.7	3662.8	3566.8	3358.2	3124.6	2945.2	2795.0	2740.8	2686.6
15°	3992.3	3984.0	3954.8	3808.8	3587.7	3208.0	2765.8	2348.7	2060.8	1881.4	1856.4
17.5°	4221.8	4184.2	4130.0	3900.5	3433.3	2815.9	2060.8	1535.2	1247.3	1134.7	1093.0
20°	4397.0	4367.8	4292.7	3879.7	3153.8	2098.4	1276.5	976.2	905.3	884.4	888.6
22.5°	4651.4	4559.7	4417.8	3775.4	2644.9	1397.5	917.8	871.9	859.4	842.7	846.9
25°	4872.6	4789.1	4492.9	3596.0	1885.6	926.1	851.0	826.0	805.1	784.3	780.1
27.5°	5068.6	4964.3	4572.2	3228.9	1180.6	796.8	788.5	759.3	717.5	684.2	671.6
30°	5260.5	5139.5	4593.0	2540.6	796.8	721.7	700.8	655.0	600.7	554.8	546.5
32.5°	5581.7	5435.7	4563.8	1814.7	688.3	642.4	596.6	542.3	463.1	425.5	417.2
35°	6082.3	5861.2	4526.3	1068.0	617.4	567.4	496.4	425.5	367.1	329.6	321.2
37.5°	6658.0	6274.2	4417.8	713.4	567.4	500.6	408.8	337.9	287.8	258.6	250.3
40°	7513.2	6879.1	4000.7	584.0	504.8	425.5	329.6	267.0	229.4	208.6	200.2
42.5°	8456.0	7571.6	3358.2	525.6	446.4	362.9	262.8	216.9	187.7	166.9	166.9
45°	9586.6	8293.3	2590.6	479.7	396.3	300.4	216.9	175.2	150.2	133.5	125.2
47.5°	10846.4	8948.3	1747.9	433.9	333.7	246.1	179.4	133.5	108.5	95.9	95.9
50°	11972.8	9528.2	1113.8	379.6	292.0	204.4	146.0	108.5	87.6	70.9	66.7
52.5°	12994.9	9970.4	767.6	333.7	250.3	166.9	121.0	87.6	66.7	54.2	54.2
55°	14042.0	10195.6	567.4	287.8	216.9	141.8	100.1	79.3	58.4	45.9	41.7
57.5°	14901.3	10291.6	433.9	250.3	183.6	112.6	87.6	66.7	50.1	37.5	33.4
60°	15635.5	10245.7	337.9	208.6	146.0	95.9	75.1	54.2	41.7	29.2	25.0
62.5°	16065.2	9970.4	267.0	179.4	116.8	83.4	62.6	45.9	29.2	20.9	16.7
65°	16073.6	9386.3	208.6	133.5	87.6	70.9	54.2	37.5	20.9	8.3	4.2
67.5°	14922.2	8122.3	166.9	104.3	70.9	54.2	41.7	29.2	8.3	0.0	0.0
70°	11672.4	6144.9	137.7	83.4	58.4	45.9	29.2	16.7	4.2	0.0	0.0
72.5°	7438.1	3679.4	112.6	66.7	50.1	33.4	20.9	12.5	0.0	0.0	0.0
75°	3112.1	1134.7	87.6	58.4	37.5	25.0	16.7	4.2	0.0	0.0	0.0
77.5°	801.0	358.8	70.9	50.1	37.5	20.9	12.5	4.2	0.0	0.0	0.0
80°	237.8	133.5	58.4	41.7	29.2	16.7	8.3	4.2	0.0	0.0	0.0
82.5°	108.5	79.3	50.1	37.5	25.0	16.7	8.3	0.0	0.0	0.0	0.0
85°	41.7	25.0	25.0	20.9	20.9	12.5	4.2	0.0	0.0	0.0	0.0
87.5°	16.7	8.3	8.3	8.3	4.2	4.2	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)