

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: P482897

Luminaire Tested: **IFLD-M-SA4C-750-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482897
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

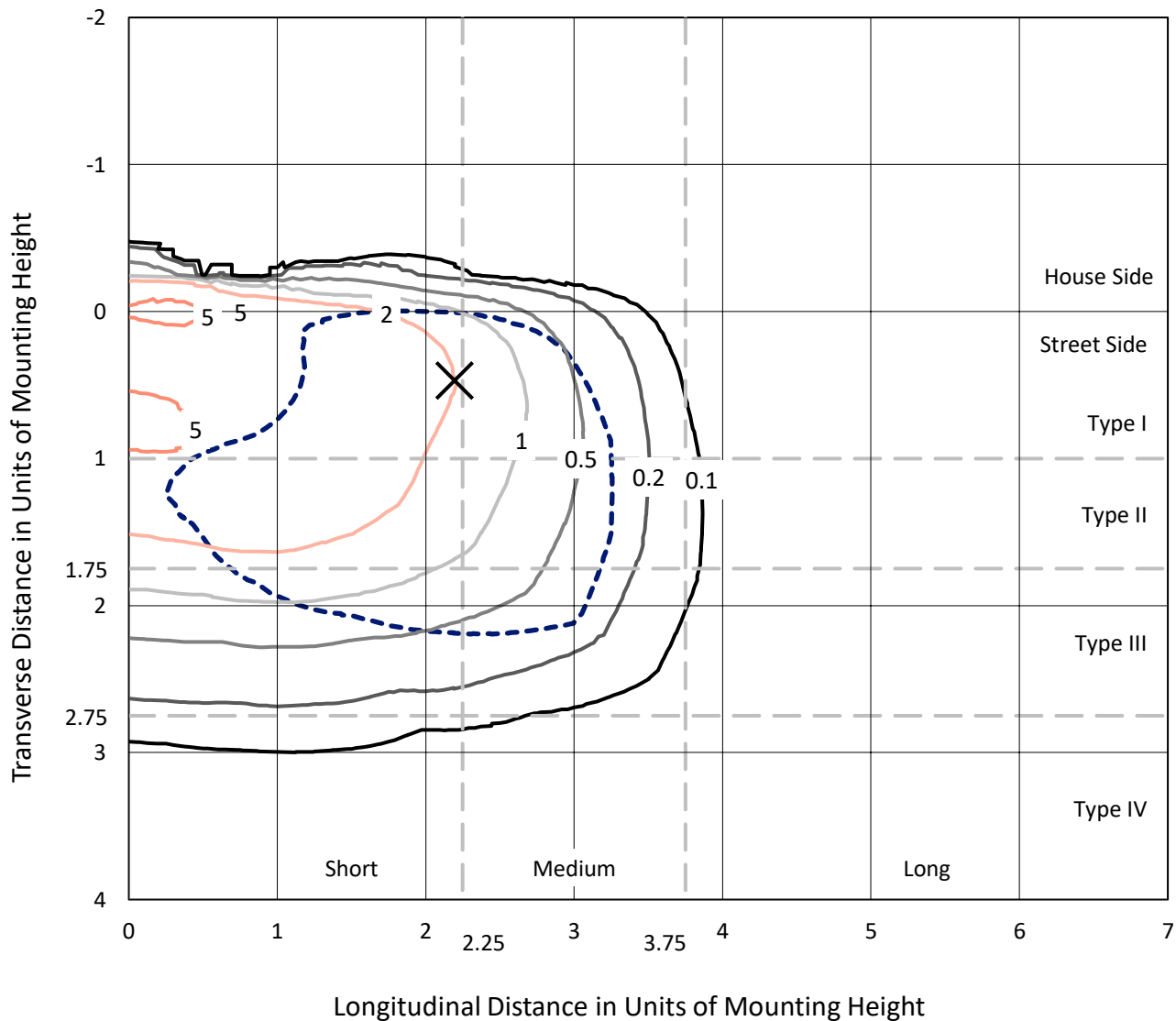
Lumens per Lamp: N/A
Luminaire Lumens: 20847.1 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

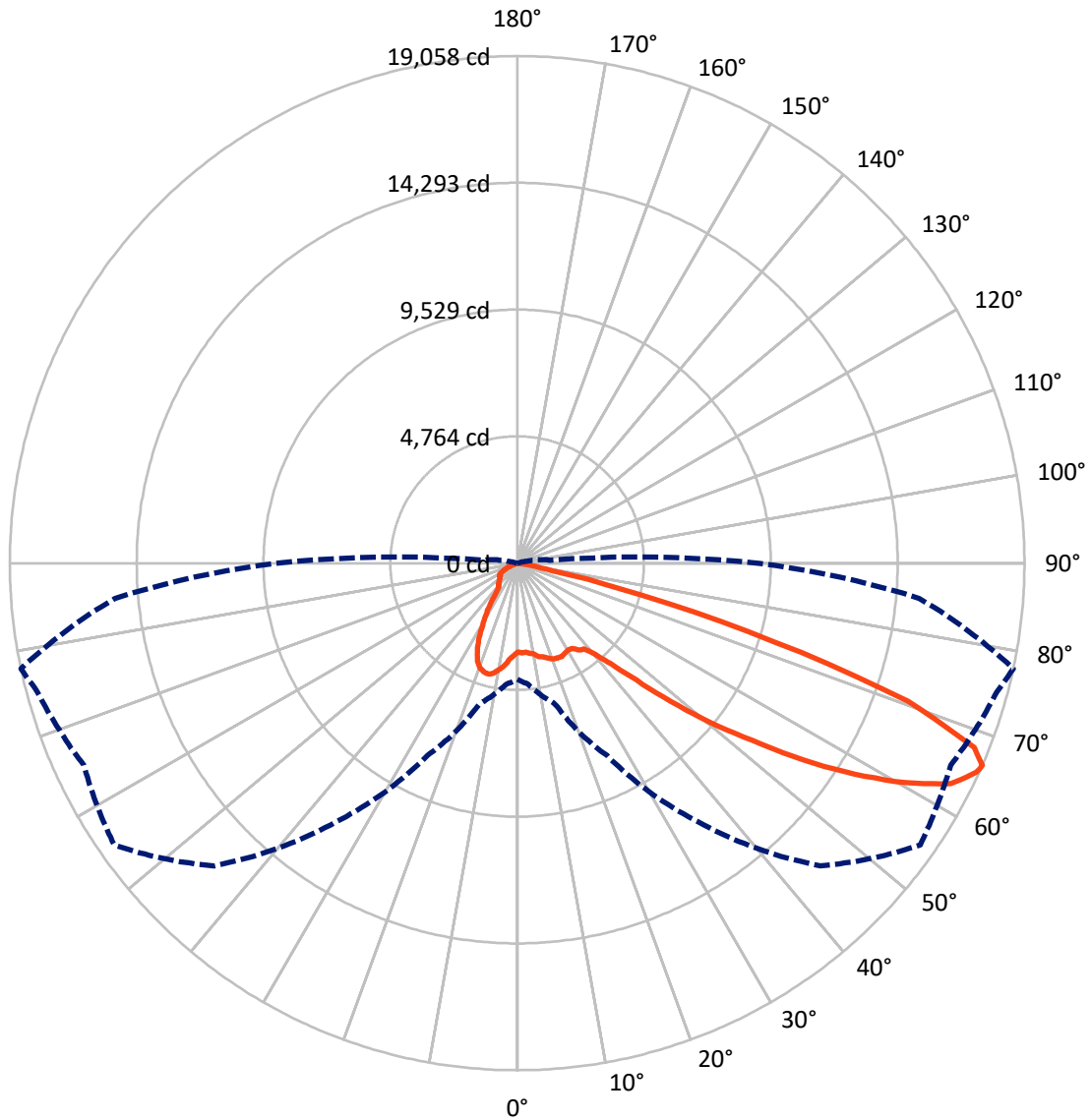
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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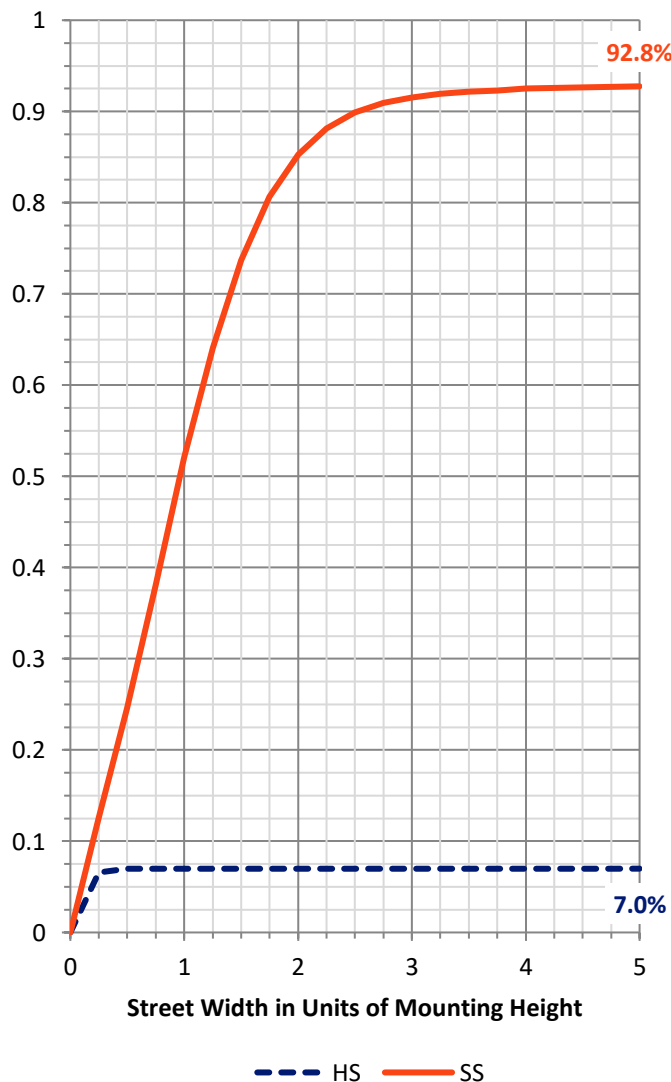
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1465.7	0.0	1465.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	19381.5	0.0	19381.5
	% Fixture	93.0	0.0	93.0
Total	Lumens	20847.1	0.0	20847.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.5	1.5
10°-20°	689.6	3.3
20°-30°	985.6	4.7
30°-40°	1687.1	8.1
40°-50°	3045.0	14.6
50°-60°	5207.3	25.0
60°-70°	6409.3	30.7
70°-80°	2423.1	11.6
80°-90°	94.7	0.5
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°	20847.1	100.0
0°-180°	20847.1	100.0

Coefficient of Utilization

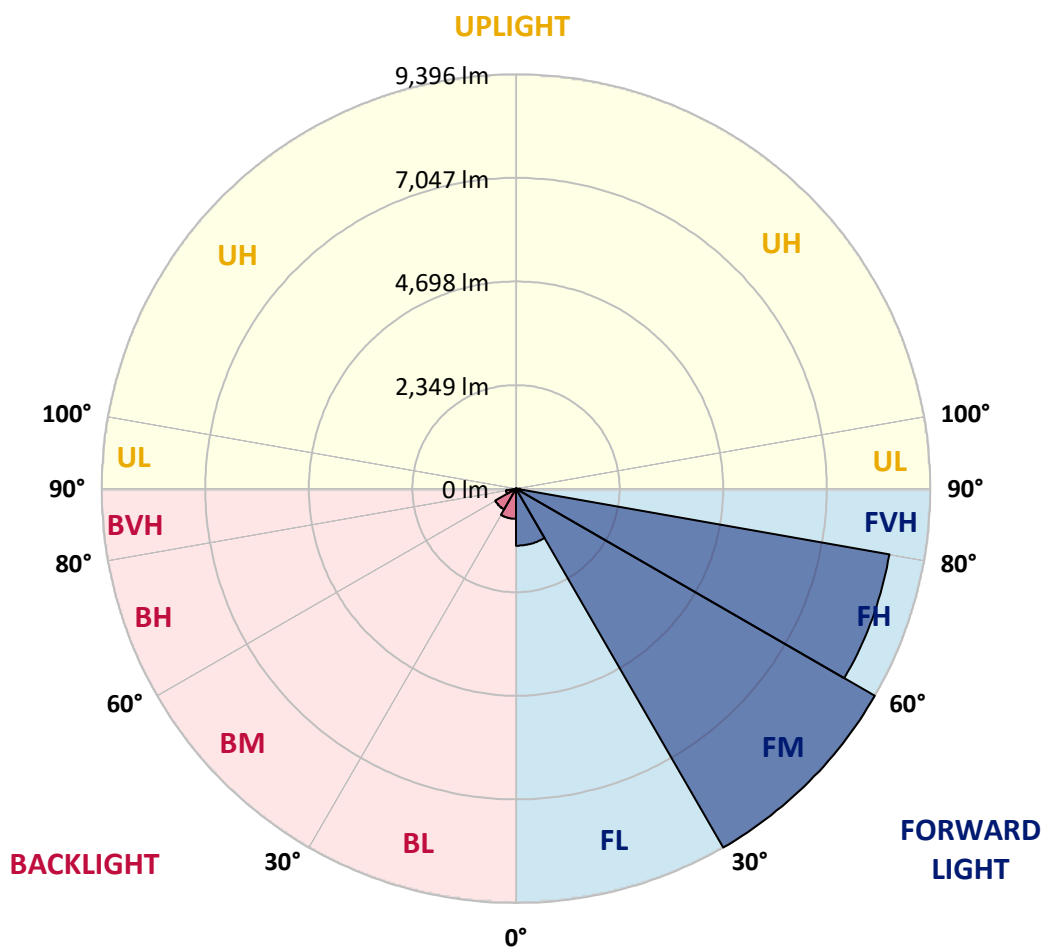


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.2	6.2			
FM (30°-60°)	9396.2	45.1			
FH (60°-80°)	8600.2	41.3			G4/12000
FVH (80°-90°)	90.9	0.4			G1/100
BL (0°-30°)	686.4	3.3	B2/1000		
BM (30°-60°)	543.2	2.6	B1/1000		
BH (60°-80°)	232.2	1.1	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: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0
2.5°	3071.3	3042.9	3071.3	3112.2	3134.3	3153.2	3219.3	3276.0	3335.9	3376.8	3364.2
5°	2847.6	2901.2	2907.5	2920.1	2954.7	3068.1	3105.9	3203.6	3351.6	3364.2	3420.9
7.5°	2671.2	2655.5	2696.4	2778.3	2866.5	2932.7	3042.9	3213.0	3367.4	3420.9	3531.2
10°	2416.1	2447.6	2491.7	2573.6	2680.7	2844.5	3039.8	3228.8	3449.3	3468.2	3672.9
12.5°	2277.5	2246.0	2315.3	2400.3	2583.0	2734.2	2973.6	3200.4	3499.7	3603.6	3839.9
15°	2164.1	2179.8	2246.0	2302.7	2453.9	2646.0	2926.4	3269.7	3584.7	3657.2	4016.3
17.5°	2116.8	2107.4	2157.8	2214.5	2400.3	2617.7	2907.5	3272.9	3660.3	3754.8	4136.0
20°	2138.9	2157.8	2142.0	2195.6	2312.1	2532.6	2935.8	3332.7	3717.0	3846.2	4265.1
22.5°	2485.4	2460.2	2334.2	2233.4	2239.7	2498.0	2913.8	3370.5	3767.4	3871.4	4353.3
25°	3389.4	3254.0	2942.1	2554.7	2299.5	2403.5	2888.6	3357.9	3758.0	3887.1	4406.9
27.5°	4299.8	4183.2	3877.7	3276.0	2542.1	2365.7	2800.4	3367.4	3710.7	3830.4	4318.7
30°	5260.5	5323.5	4869.9	4154.9	3178.4	2573.6	2743.7	3317.0	3679.2	3780.0	4337.6
32.5°	6246.5	6221.3	5947.2	5172.3	4088.7	3033.5	2835.0	3367.4	3720.2	3817.8	4447.8
35°	7018.3	6930.1	6652.9	5953.5	4841.6	3726.5	3150.0	3606.8	3899.7	4016.3	4605.3
37.5°	7399.4	7437.2	7276.6	6668.6	5666.9	4369.1	3543.8	3606.8	3956.4	4091.9	4860.5
40°	7695.5	7808.9	7749.1	7553.8	6485.9	5093.6	3978.5	3830.4	4243.1	4498.2	5339.3
42.5°	8051.5	7997.9	8350.7	8171.2	7556.9	6007.1	4740.8	4362.8	4920.3	5166.0	6057.5
45°	8240.5	8445.2	8713.0	8942.9	8549.2	7147.4	5736.2	5304.6	5956.7	6268.6	7125.4
47.5°	8725.6	8807.5	9242.2	9532.0	9355.6	8451.5	7248.2	6681.2	7260.8	7752.2	8347.6
50°	9009.1	8898.8	9506.8	9947.8	10048.6	9532.0	8602.7	8161.7	8810.6	9437.5	9491.0
52.5°	8760.2	9075.2	9683.2	10473.8	10754.2	10495.9	10193.5	10001.3	10458.1	11037.7	10779.4
55°	7887.7	8101.9	9582.4	11050.3	11954.3	11834.6	12115.0	11989.0	12448.9	13063.2	12285.1
57.5°	7185.2	7453.0	8753.9	11349.5	13072.6	13425.4	13778.2	13699.5	14253.9	14962.6	13560.9
60°	6747.4	6901.7	8155.4	11273.9	13734.1	15069.7	15866.7	15312.3	16216.3	16758.1	14559.4
62.5°	5988.2	6085.8	7282.9	10272.2	13932.6	16232.1	17583.4	16830.6	17614.9	18276.4	15277.6
65°	4800.6	5065.2	6054.3	8772.8	12622.2	16446.3	18654.4	17769.3	18528.4	18963.2	15495.0
66°	4369.1	4561.2	5468.4	7979.0	11875.6	16090.3	18474.9	17964.6	18660.8	19057.7	15161.1
67.5°	3625.7	3792.6	4514.0	6848.2	10347.8	15306.0	18600.9	17832.3	18761.6	18519.0	14713.8
70°	2400.3	2507.4	3087.0	4630.5	7207.3	12521.4	17252.7	16799.1	16493.5	15583.2	11503.9
72.5°	1121.4	1275.8	1927.8	2806.7	4227.3	8760.2	14068.0	13460.1	11566.9	10111.6	7257.7
75°	507.2	576.5	1058.4	1609.7	1896.3	4539.2	9075.2	8196.4	5758.2	4781.7	3178.4
77.5°	274.1	311.9	516.6	765.5	689.9	1590.8	4491.9	3735.9	1814.4	1329.3	923.0
80°	211.1	248.9	431.6	437.9	255.2	412.7	1669.5	1156.1	453.6	343.4	220.5
82.5°	110.3	157.5	340.2	283.5	129.2	167.0	516.6	321.3	141.8	113.4	94.5
85°	44.1	69.3	192.2	189.0	75.6	56.7	144.9	97.7	56.7	47.3	44.1
87.5°	3.2	3.2	104.0	72.5	47.3	15.8	22.1	22.1	28.4	25.2	31.5
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°	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0	3339.0
2.5°	3420.9	3458.7	3465.0	3569.0	3591.0	3569.0	3625.7	3616.2	3641.4	3622.5	3587.9
5°	3499.7	3553.2	3657.2	3735.9	3735.9	3672.9	3622.5	3556.4	3458.7	3433.5	3414.6
7.5°	3635.1	3805.2	3899.7	3849.3	3748.5	3512.3	3184.7	2945.3	2743.7	2668.1	2633.4
10°	3874.5	3969.0	4079.3	3874.5	3455.6	2954.7	2403.5	2041.2	1757.7	1694.7	1647.5
12.5°	4028.9	4180.1	4243.1	3735.9	2913.8	2167.2	1568.7	1159.2	960.8	809.6	784.4
15°	4230.5	4403.7	4274.6	3361.1	2296.4	1420.7	812.7	507.2	412.7	387.5	387.5
17.5°	4369.1	4558.1	4145.4	2894.9	1628.6	756.0	403.2	349.7	343.4	346.5	340.2
20°	4611.6	4725.0	3950.1	2353.1	973.4	387.5	324.5	311.9	305.6	315.0	308.7
22.5°	4703.0	4806.9	3632.0	1704.2	437.9	258.3	242.6	233.1	239.4	236.3	233.1
25°	4696.7	4750.2	3109.1	976.5	129.2	100.8	91.4	91.4	85.1	88.2	85.1
27.5°	4743.9	4611.6	2523.2	289.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4769.1	4388.0	1795.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4781.7	4271.4	1156.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4879.4	4038.3	494.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4945.5	3739.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5219.6	3644.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5575.5	3468.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6070.1	3206.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6725.3	3052.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7213.6	2809.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7834.1	2664.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8571.2	2671.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9242.2	2627.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9585.5	2246.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9513.1	1817.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9261.1	1427.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9087.8	1263.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8561.8	1011.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6813.5	693.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4334.4	425.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1997.1	195.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	626.9	119.7	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	163.8	75.6	25.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	85.1	53.6	22.1	9.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.6	22.1	9.5	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	47.3	12.6	6.3	6.3	3.2	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)