

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: P482859

Luminaire Tested: **IFLD-M-SA4D-740-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482859
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

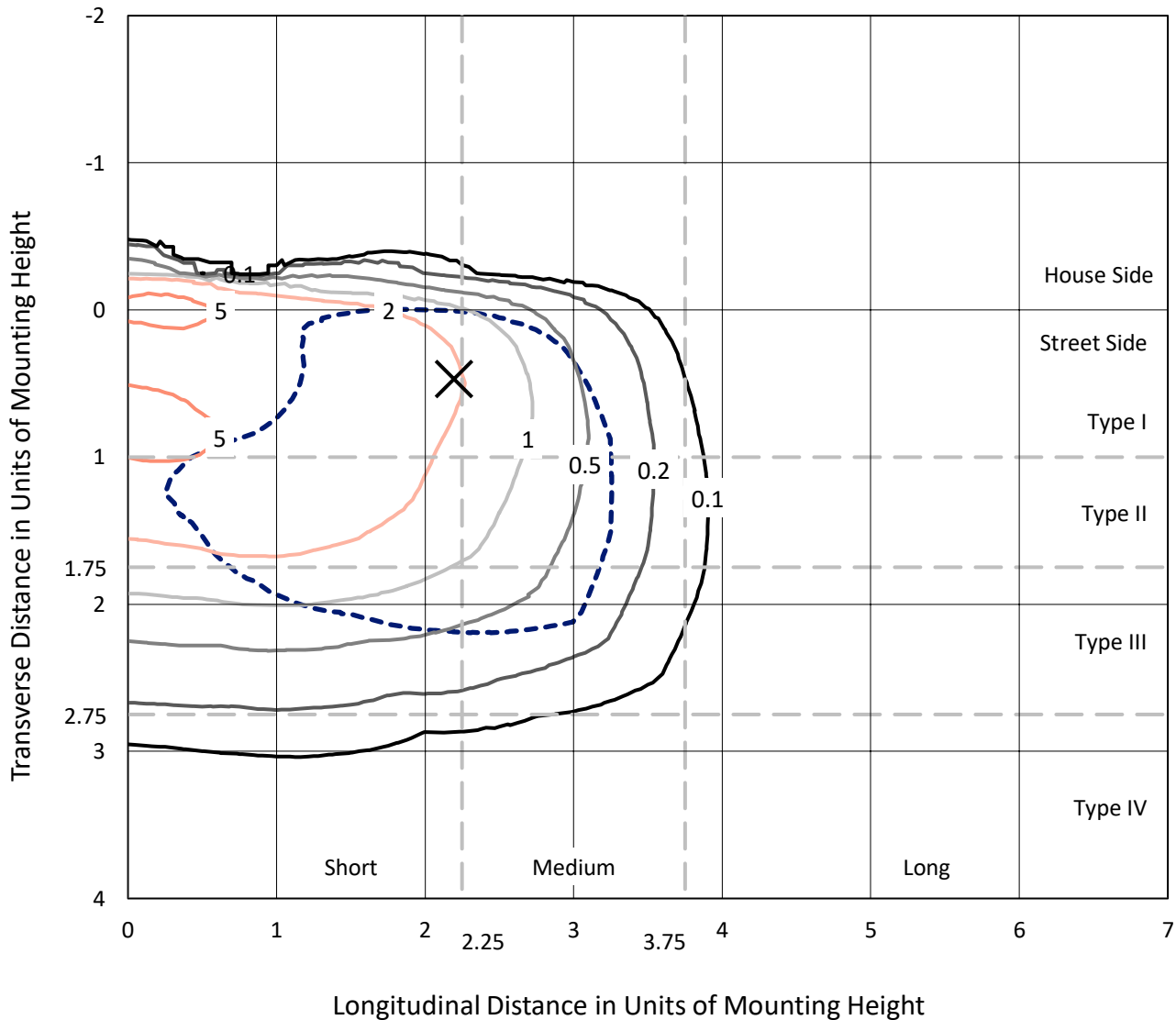
Lumens per Lamp: N/A
Luminaire Lumens: 22424.9 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

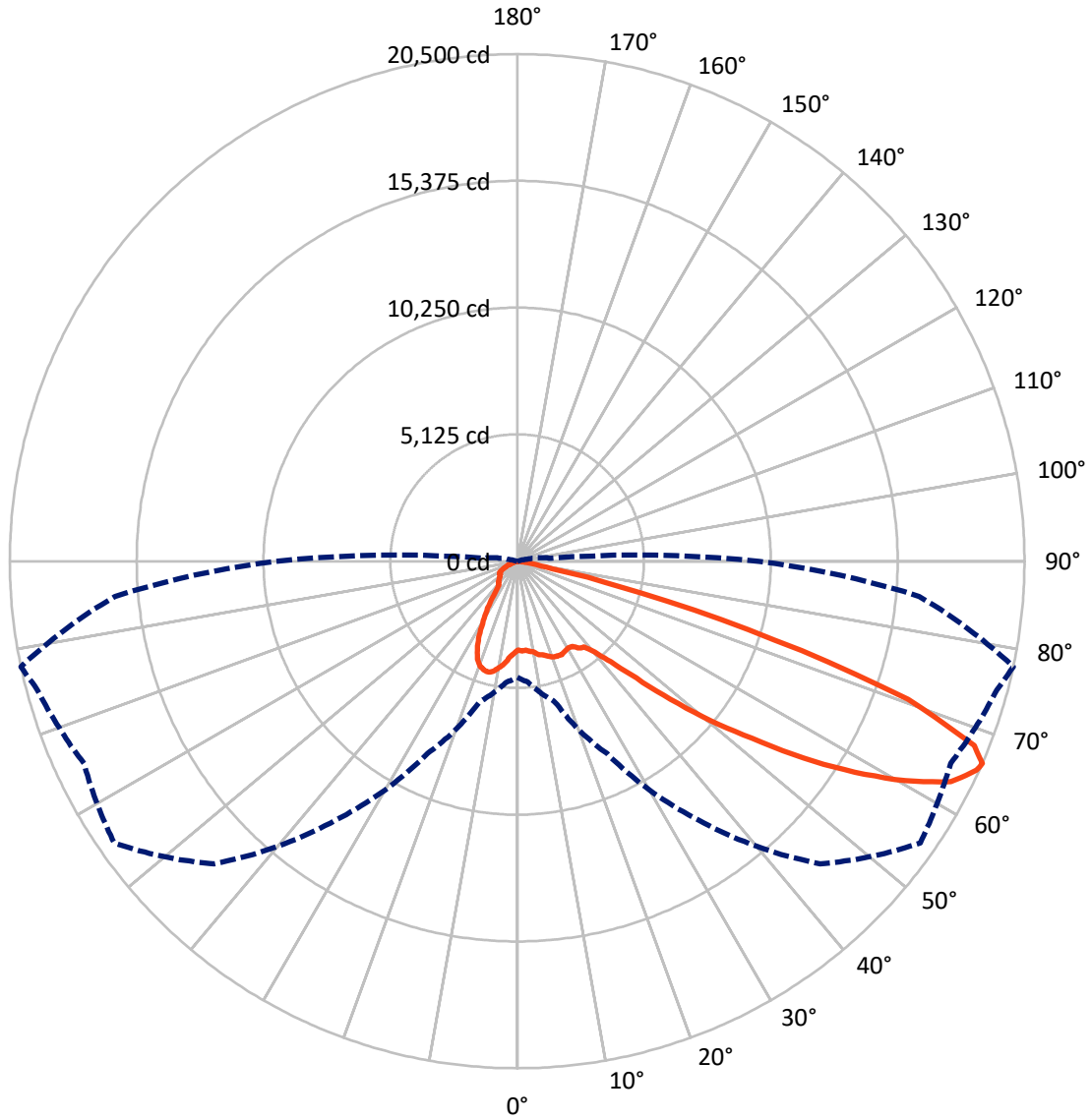
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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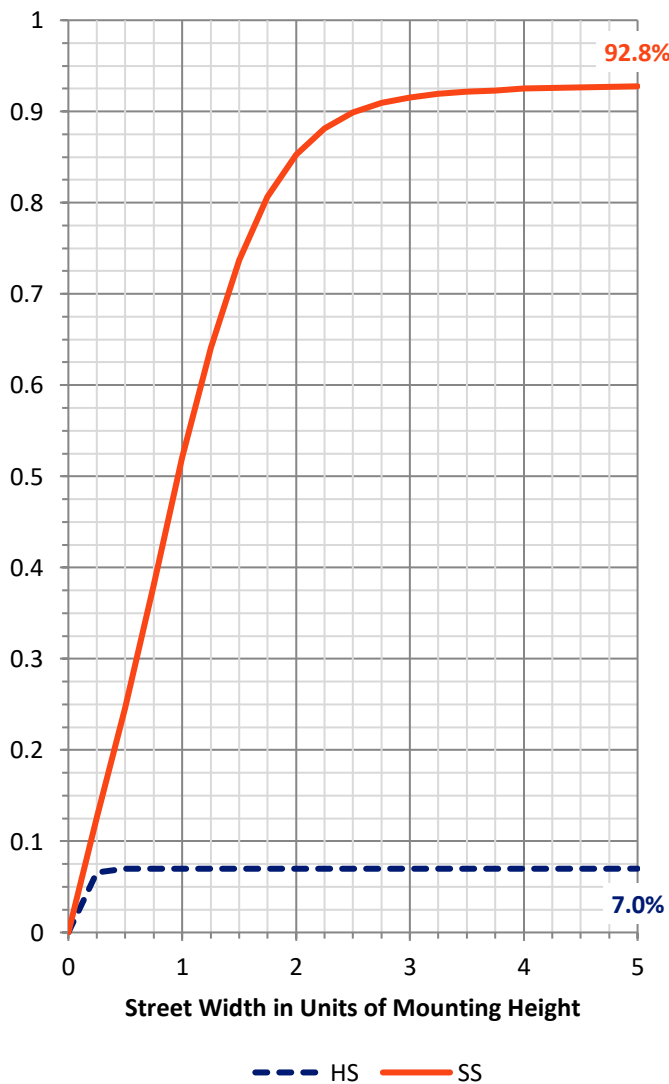
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1576.6	0.0	1576.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	20848.3	0.0	20848.3
	% Fixture	93.0	0.0	93.0
Total	Lumens	22424.9	0.0	22424.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.6	1.5
10°-20°	741.7	3.3
20°-30°	1060.2	4.7
30°-40°	1814.8	8.1
40°-50°	3275.5	14.6
50°-60°	5601.5	25.0
60°-70°	6894.4	30.7
70°-80°	2606.5	11.6
80°-90°	101.8	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°	22424.9	100.0
0°-180°	22424.9	100.0

Coefficient of Utilization

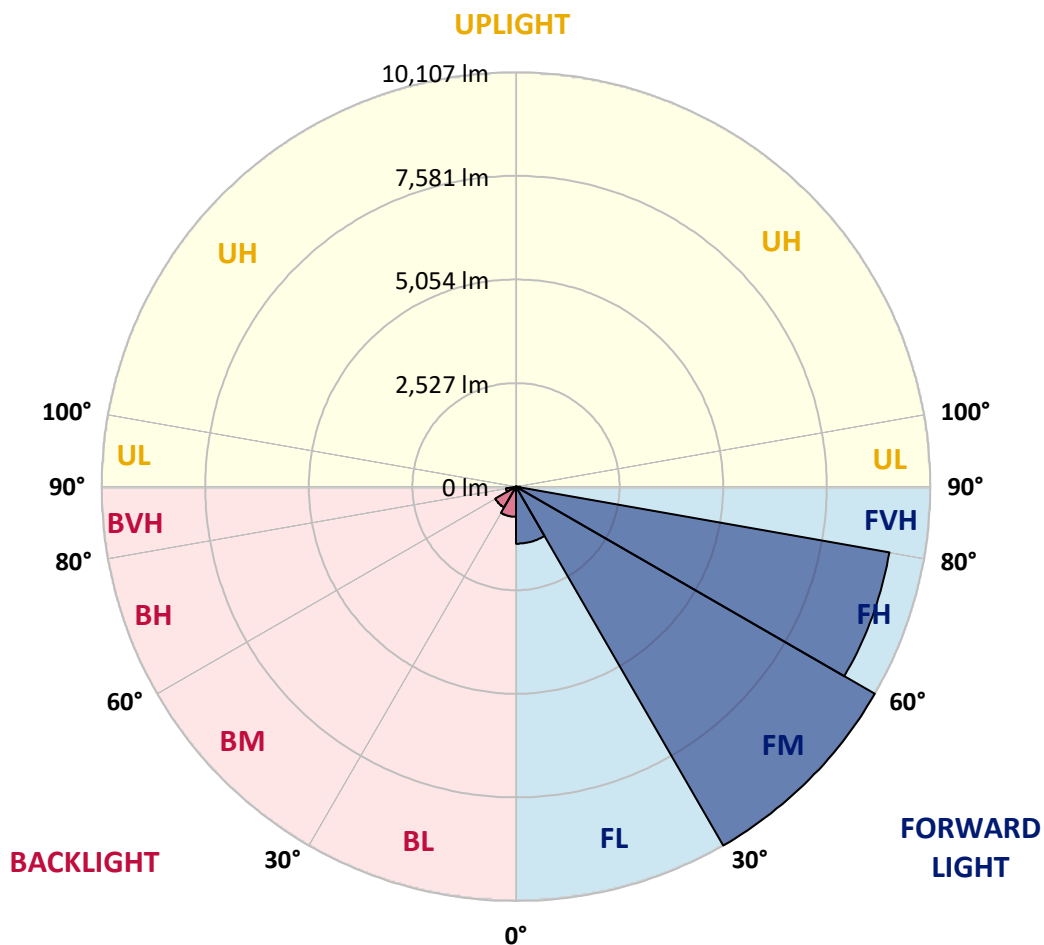


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.2	6.2			
FM (30°-60°)	10107.4	45.1			
FH (60°-80°)	9251.1	41.3			G4/12000
FVH (80°-90°)	97.7	0.4			G1/100
BL (0°-30°)	738.4	3.3	B2/1000		
BM (30°-60°)	584.3	2.6	B1/1000		
BH (60°-80°)	249.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7
2.5°	3303.7	3273.2	3303.7	3347.8	3371.5	3391.8	3463.0	3524.0	3588.4	3632.4	3618.9
5°	3063.1	3120.8	3127.5	3141.1	3178.4	3300.3	3341.0	3446.0	3605.3	3618.9	3679.8
7.5°	2873.4	2856.5	2900.5	2988.6	3083.5	3154.6	3273.2	3456.2	3622.2	3679.8	3798.4
10°	2598.9	2632.8	2680.3	2768.4	2883.6	3059.8	3269.8	3473.1	3710.3	3730.7	3950.9
12.5°	2449.8	2416.0	2490.5	2582.0	2778.5	2941.2	3198.7	3442.7	3764.6	3876.4	4130.5
15°	2327.9	2344.8	2416.0	2476.9	2639.6	2846.3	3147.9	3517.2	3856.0	3934.0	4320.3
17.5°	2277.0	2266.9	2321.1	2382.1	2582.0	2815.8	3127.5	3520.6	3937.4	4039.0	4449.0
20°	2300.7	2321.1	2304.1	2361.7	2487.1	2724.3	3158.0	3585.0	3998.4	4137.3	4587.9
22.5°	2673.5	2646.4	2510.8	2402.4	2409.2	2687.0	3134.3	3625.6	4052.6	4164.4	4682.8
25°	3646.0	3500.3	3164.8	2748.0	2473.6	2585.4	3107.2	3612.1	4042.4	4181.3	4740.4
27.5°	4625.2	4499.8	4171.2	3524.0	2734.5	2544.7	3012.3	3622.2	3991.6	4120.3	4645.5
30°	5658.7	5726.5	5238.5	4469.4	3418.9	2768.4	2951.3	3568.0	3957.7	4066.1	4665.9
32.5°	6719.3	6692.2	6397.4	5563.8	4398.2	3263.1	3049.6	3622.2	4001.7	4106.8	4784.5
35°	7549.4	7454.6	7156.4	6404.1	5208.0	4008.5	3388.4	3879.8	4194.9	4320.3	4953.9
37.5°	7959.4	8000.1	7827.3	7173.3	6095.8	4699.8	3812.0	3879.8	4255.9	4401.6	5228.4
40°	8278.0	8399.9	8335.6	8125.5	6976.8	5479.1	4279.6	4120.3	4564.2	4838.7	5743.4
42.5°	8660.8	8603.2	8982.8	8789.6	8128.9	6461.8	5099.6	4693.0	5292.7	5557.0	6516.0
45°	8864.2	9084.4	9372.4	9619.8	9196.2	7688.4	6170.3	5706.1	6407.5	6743.0	7664.6
47.5°	9386.0	9474.1	9941.7	10253.4	10063.7	9091.2	7796.8	7186.9	7810.4	8338.9	8979.4
50°	9690.9	9572.3	10226.3	10700.7	10809.1	10253.4	9253.8	8779.4	9477.5	10151.8	10209.4
52.5°	9423.2	9762.1	10416.1	11266.6	11568.1	11290.3	10965.0	10758.3	11249.6	11873.1	11595.2
55°	8484.6	8715.1	10307.6	11886.6	12859.1	12730.4	13031.9	12896.4	13391.1	14051.9	13214.9
57.5°	7729.0	8017.0	9416.5	12208.5	14062.0	14441.5	14821.0	14736.3	15332.7	16095.1	14587.2
60°	7258.0	7424.1	8772.7	12127.2	14773.6	16210.3	17067.6	16471.2	17443.7	18026.5	15661.4
62.5°	6441.4	6546.5	7834.1	11049.7	14987.1	17460.6	18914.3	18104.4	18948.1	19659.7	16433.9
65°	5164.0	5448.6	6512.6	9436.8	13577.5	17691.0	20066.3	19114.2	19930.8	20398.4	16667.7
66°	4699.8	4906.5	5882.3	8582.9	12774.4	17308.1	19873.2	19324.3	20073.1	20500.1	16308.6
67.5°	3900.1	4079.7	4855.6	7366.5	11131.0	16464.4	20008.7	19181.9	20181.5	19920.6	15827.4
70°	2582.0	2697.2	3320.7	4981.0	7752.7	13469.0	18558.5	18070.5	17741.9	16762.6	12374.6
72.5°	1206.3	1372.3	2073.7	3019.1	4547.3	9423.2	15132.8	14478.8	12442.3	10876.9	7807.0
75°	545.5	620.1	1138.5	1731.5	2039.8	4882.7	9762.1	8816.7	6194.1	5143.6	3418.9
77.5°	294.8	335.5	555.7	823.4	742.1	1711.2	4831.9	4018.7	1951.7	1429.9	992.8
80°	227.0	267.7	464.2	471.0	274.5	443.9	1795.9	1243.6	487.9	369.3	237.2
82.5°	118.6	169.4	366.0	305.0	138.9	179.6	555.7	345.6	152.5	122.0	101.7
85°	47.4	74.5	206.7	203.3	81.3	61.0	155.9	105.0	61.0	50.8	47.4
87.5°	3.4	3.4	111.8	77.9	50.8	16.9	23.7	23.7	30.5	27.1	33.9
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°	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7	3591.7
2.5°	3679.8	3720.5	3727.3	3839.1	3862.8	3839.1	3900.1	3889.9	3917.0	3896.7	3859.4
5°	3764.6	3822.2	3934.0	4018.7	4018.7	3950.9	3896.7	3825.5	3720.5	3693.4	3673.1
7.5°	3910.3	4093.2	4194.9	4140.7	4032.2	3778.1	3425.7	3168.2	2951.3	2870.0	2832.7
10°	4167.8	4269.4	4388.0	4167.8	3717.1	3178.4	2585.4	2195.7	1890.7	1823.0	1772.2
12.5°	4333.8	4496.5	4564.2	4018.7	3134.3	2331.2	1687.4	1246.9	1033.5	870.8	843.7
15°	4550.7	4737.0	4598.1	3615.5	2470.2	1528.2	874.2	545.5	443.9	416.8	416.8
17.5°	4699.8	4903.1	4459.2	3114.0	1751.8	813.2	433.7	376.1	369.3	372.7	366.0
20°	4960.7	5082.7	4249.1	2531.2	1047.0	416.8	349.0	335.5	328.7	338.8	332.1
22.5°	5058.9	5170.8	3906.9	1833.1	471.0	277.9	260.9	250.7	257.5	254.1	250.7
25°	5052.2	5109.8	3344.4	1050.4	138.9	108.4	98.3	98.3	91.5	94.9	91.5
27.5°	5103.0	4960.7	2714.1	311.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5130.1	4720.1	1931.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5143.6	4594.7	1243.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5248.7	4344.0	532.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5319.8	4022.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5614.6	3920.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5997.5	3730.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6529.5	3449.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7234.3	3283.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7759.5	3022.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8427.0	2866.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9219.9	2873.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9941.7	2826.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10311.0	2416.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10233.1	1955.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9962.0	1535.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9775.6	1358.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9209.8	1087.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7329.2	745.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4662.5	457.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2148.3	210.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	674.3	128.8	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	176.2	81.3	27.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	91.5	57.6	23.7	10.2	6.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	57.6	23.7	10.2	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	50.8	13.6	6.8	6.8	3.4	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)