

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: P482901

Luminaire Tested: **IFLD-L-SA7B-750-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482901  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-750-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

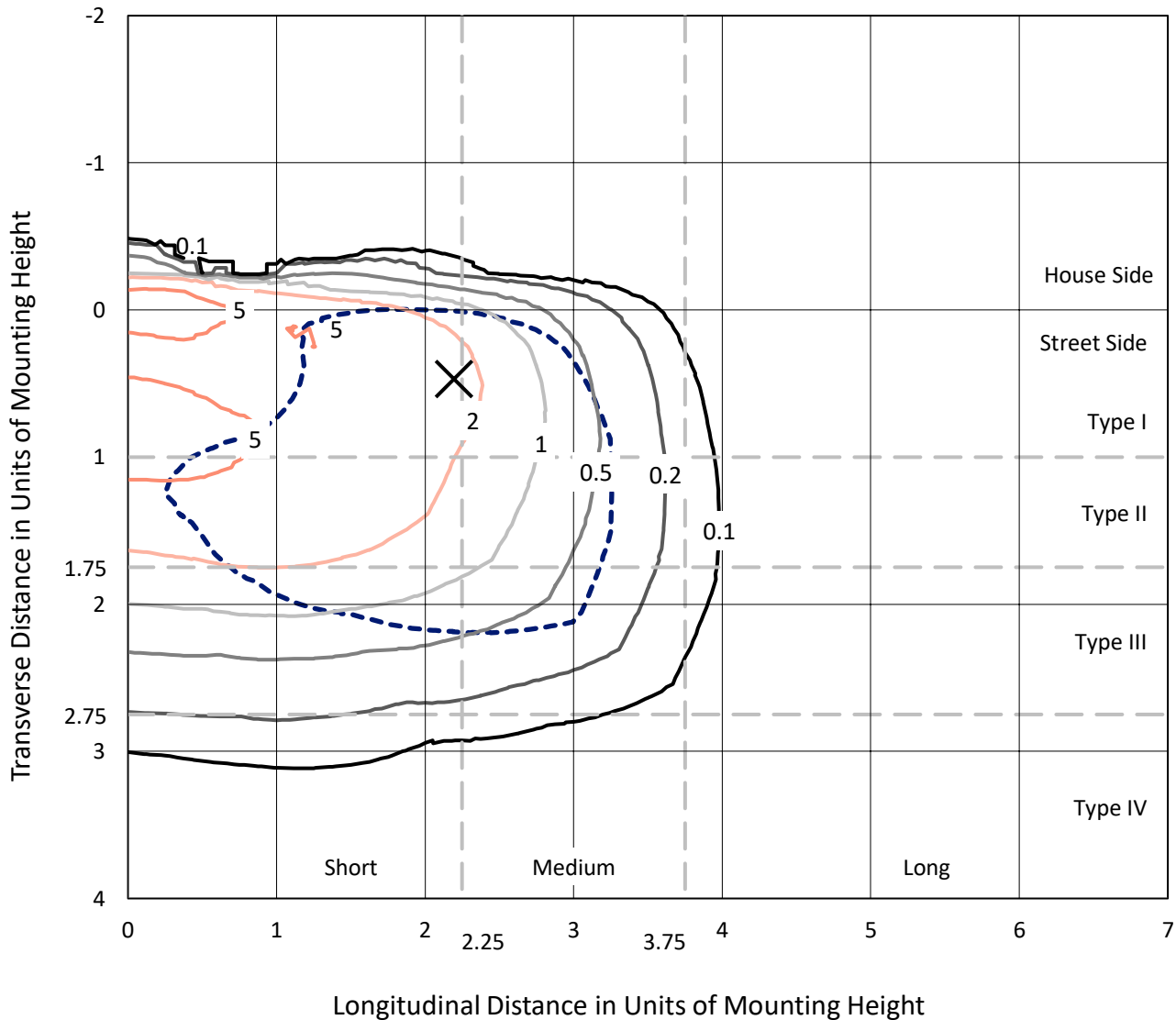
Lumens per Lamp: N/A  
Luminaire Lumens: 26112 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 281  
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

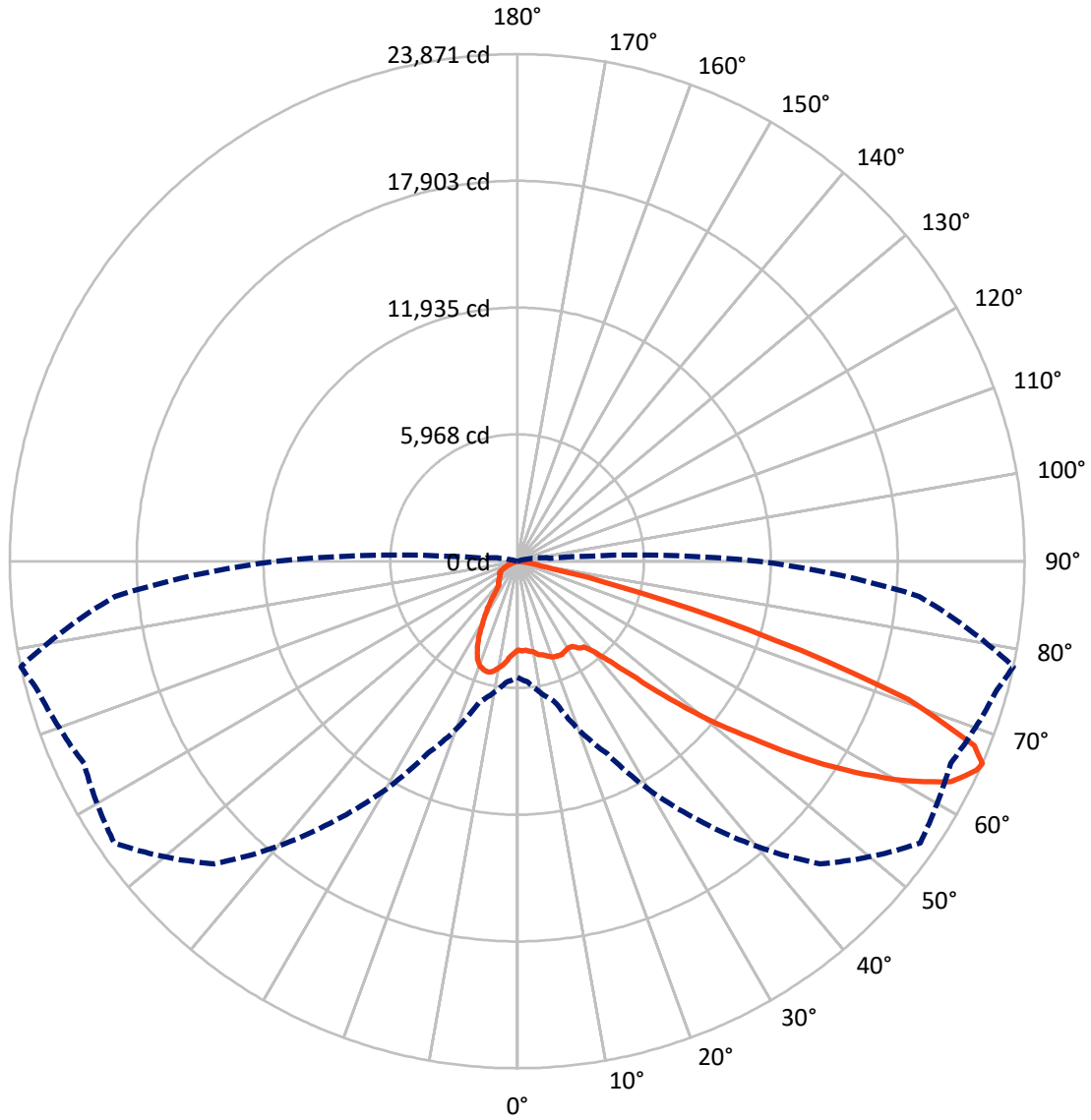
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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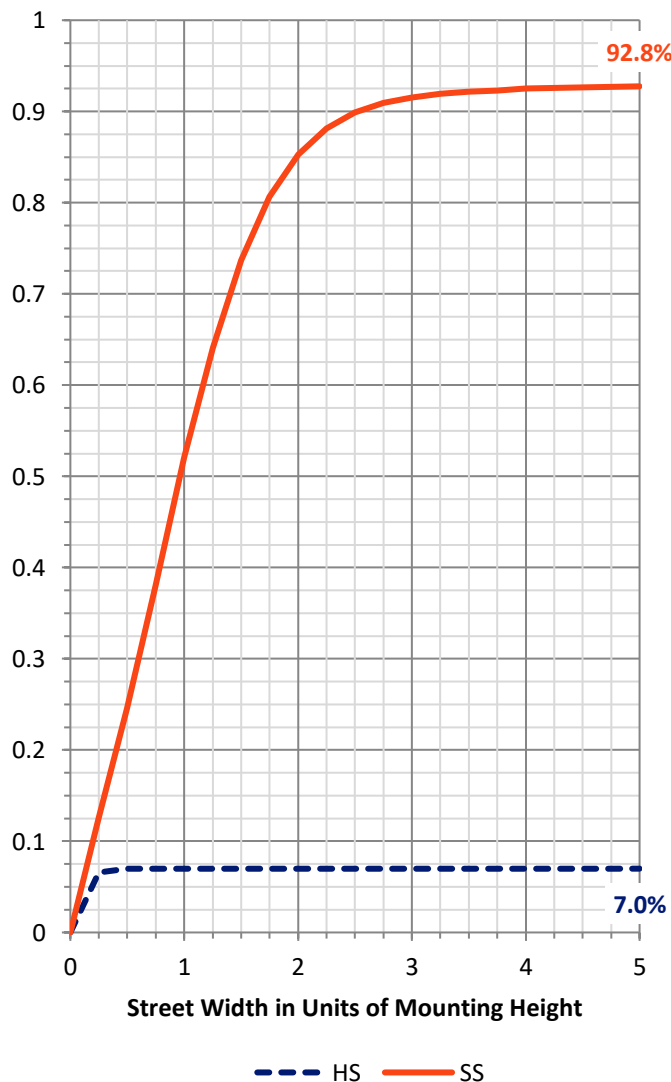
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1835.8	0.0	1835.8
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	24276.2	0.0	24276.2
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	26112.0	0.0	26112.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.6	1.5
10°-20°	863.7	3.3
20°-30°	1234.5	4.7
30°-40°	2113.2	8.1
40°-50°	3814.0	14.6
50°-60°	6522.4	25.0
60°-70°	8028.0	30.7
70°-80°	3035.0	11.6
80°-90°	118.6	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°	26112.0	100.0
0°-180°	26112.0	100.0

**Coefficient of Utilization**

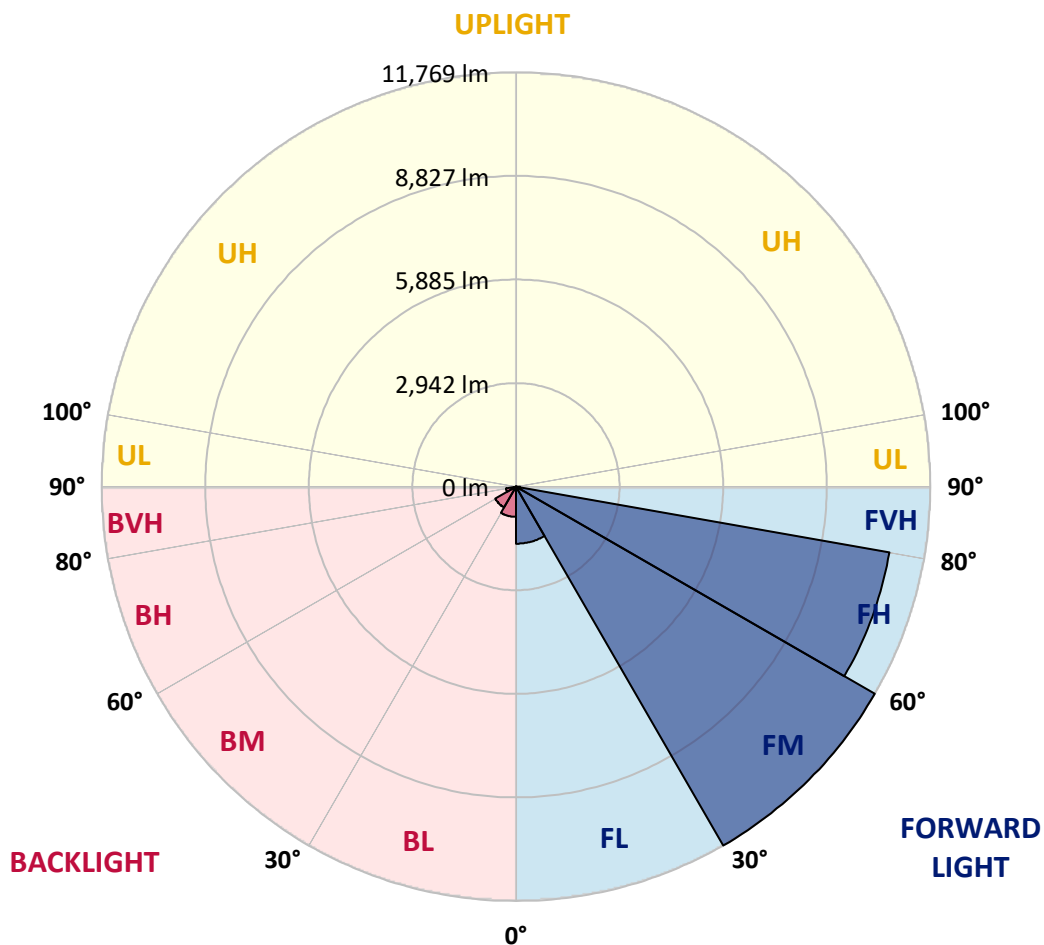


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1621.0	6.2			
FM (30°-60°)	11769.2	45.1			
FH (60°-80°)	10772.2	41.3			G4/12000
FVH (80°-90°)	113.8	0.4			G2/225
BL (0°-30°)	859.8	3.3	B2/1000		
BM (30°-60°)	680.4	2.6	B1/1000		
BH (60°-80°)	290.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.8	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°	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3
2.5°	3846.9	3811.4	3846.9	3898.2	3925.8	3949.5	4032.4	4103.4	4178.3	4229.6	4213.9
5°	3566.8	3633.9	3641.8	3657.5	3700.9	3843.0	3890.3	4012.6	4198.1	4213.9	4284.9
7.5°	3345.8	3326.1	3377.4	3480.0	3590.5	3673.3	3811.4	4024.5	4217.8	4284.9	4423.0
10°	3026.2	3065.7	3120.9	3223.5	3357.7	3562.8	3807.5	4044.2	4320.4	4344.1	4600.5
12.5°	2852.6	2813.2	2900.0	3006.5	3235.4	3424.7	3724.6	4008.7	4383.5	4513.7	4809.6
15°	2710.6	2730.3	2813.2	2884.2	3073.6	3314.3	3665.4	4095.5	4490.0	4580.8	5030.6
17.5°	2651.4	2639.6	2702.7	2773.7	3006.5	3278.8	3641.8	4099.4	4584.7	4703.1	5180.5
20°	2679.0	2702.7	2683.0	2750.1	2896.0	3172.2	3677.3	4174.4	4655.8	4817.5	5342.3
22.5°	3113.0	3081.5	2923.7	2797.4	2805.3	3128.8	3649.6	4221.8	4718.9	4849.1	5452.8
25°	4245.4	4075.8	3685.2	3199.9	2880.3	3010.5	3618.1	4206.0	4707.1	4868.8	5519.8
27.5°	5385.7	5239.7	4857.0	4103.4	3184.1	2963.1	3507.6	4217.8	4647.9	4797.8	5409.4
30°	6589.1	6668.0	6099.8	5204.2	3981.1	3223.5	3436.6	4154.7	4608.4	4734.7	5433.0
32.5°	7824.0	7792.5	7449.2	6478.6	5121.3	3799.6	3551.0	4217.8	4659.7	4782.0	5571.1
35°	8790.7	8680.2	8333.0	7457.1	6064.3	4667.6	3945.6	4517.7	4884.6	5030.6	5768.4
37.5°	9268.1	9315.5	9114.2	8352.8	7098.1	5472.5	4438.8	4517.7	4955.6	5125.3	6088.0
40°	9639.0	9781.0	9706.1	9461.5	8123.9	6380.0	4983.2	4797.8	5314.7	5634.3	6687.7
42.5°	10084.9	10017.8	10459.7	10234.8	9465.4	7524.2	5938.1	5464.6	6163.0	6470.7	7587.3
45°	10321.6	10578.1	10913.4	11201.4	10708.3	8952.5	7184.9	6644.3	7461.1	7851.7	8924.9
47.5°	10929.2	11031.8	11576.3	11939.3	11718.3	10585.9	9078.7	8368.5	9094.5	9710.0	10455.7
50°	11284.3	11146.2	11907.7	12460.1	12586.3	11939.3	10775.3	10223.0	11035.7	11820.9	11888.0
52.5°	10972.6	11367.2	12128.7	13119.0	13470.1	13146.6	12767.8	12527.2	13099.3	13825.2	13501.7
55°	9879.7	10148.0	12002.4	13841.0	14973.4	14823.5	15174.6	15016.8	15592.9	16362.2	15387.7
57.5°	8999.8	9335.2	10964.7	14215.9	16374.1	16816.0	17257.9	17159.2	17853.7	18741.4	16985.6
60°	8451.4	8644.7	10215.1	14121.2	17202.6	18875.6	19873.8	19179.4	20311.8	20990.4	18236.4
62.5°	7500.5	7622.8	9122.1	12866.5	17451.2	20331.5	22024.1	21081.1	22063.6	22892.1	19136.0
65°	6013.0	6344.5	7583.4	10988.4	15809.9	20599.8	23365.6	22256.9	23207.8	23752.3	19408.2
66°	5472.5	5713.2	6849.5	9994.1	14874.8	20153.9	23140.7	22501.5	23373.5	23870.6	18990.0
67.5°	4541.3	4750.5	5654.0	8577.7	12961.2	19171.5	23298.5	22335.8	23499.8	23196.0	18429.7
70°	3006.5	3140.7	3866.7	5800.0	9027.4	15683.6	21609.8	21041.7	20659.0	19518.7	14409.2
72.5°	1404.6	1598.0	2414.7	3515.5	5294.9	10972.6	17620.9	16859.4	14488.1	12665.3	9090.6
75°	635.2	722.0	1325.7	2016.2	2375.2	5685.6	11367.2	10266.4	7212.5	5989.4	3981.1
77.5°	343.3	390.6	647.1	958.8	864.1	1992.5	5626.4	4679.4	2272.6	1665.0	1156.0
80°	264.4	311.7	540.5	548.4	319.6	516.9	2091.1	1448.0	568.2	430.1	276.2
82.5°	138.1	197.3	426.1	355.1	161.8	209.1	647.1	402.4	177.6	142.0	118.4
85°	55.2	86.8	240.7	236.7	94.7	71.0	181.5	122.3	71.0	59.2	55.2
87.5°	3.9	3.9	130.2	90.7	59.2	19.7	27.6	27.6	35.5	31.6	39.5
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°	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3
2.5°	4284.9	4332.2	4340.1	4470.3	4497.9	4470.3	4541.3	4529.5	4561.1	4537.4	4494.0
5°	4383.5	4450.6	4580.8	4679.4	4679.4	4600.5	4537.4	4454.5	4332.2	4300.7	4277.0
7.5°	4553.2	4766.2	4884.6	4821.5	4695.2	4399.3	3989.0	3689.1	3436.6	3341.9	3298.5
10°	4853.0	4971.4	5109.5	4853.0	4328.3	3700.9	3010.5	2556.7	2201.6	2122.7	2063.5
12.5°	5046.4	5235.8	5314.7	4679.4	3649.6	2714.5	1964.9	1452.0	1203.4	1014.0	982.4
15°	5298.9	5515.9	5354.1	4209.9	2876.3	1779.4	1018.0	635.2	516.9	485.3	485.3
17.5°	5472.5	5709.2	5192.4	3626.0	2039.9	946.9	505.0	438.0	430.1	434.0	426.1
20°	5776.3	5918.3	4947.7	2947.3	1219.2	485.3	406.4	390.6	382.7	394.6	386.7
22.5°	5890.7	6020.9	4549.2	2134.5	548.4	323.5	303.8	292.0	299.9	295.9	292.0
25°	5882.8	5949.9	3894.3	1223.1	161.8	126.3	114.4	114.4	106.5	110.5	106.5
27.5°	5942.0	5776.3	3160.4	363.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5973.6	5496.2	2249.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5989.4	5350.2	1448.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6111.7	5058.2	619.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6194.5	4683.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6537.8	4565.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6983.6	4344.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7603.1	4016.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8423.8	3823.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9035.3	3519.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9812.6	3337.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10735.9	3345.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11576.3	3290.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12006.3	2813.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11915.6	2276.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11600.0	1787.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11382.9	1582.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10724.0	1266.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8534.2	868.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5429.1	532.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2501.5	244.6	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	785.2	149.9	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	205.2	94.7	31.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	106.5	67.1	27.6	11.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	67.1	27.6	11.8	7.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	59.2	15.8	7.9	7.9	3.9	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)