

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: P482750

Luminaire Tested: **IFLD-L-SA8B-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482750  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

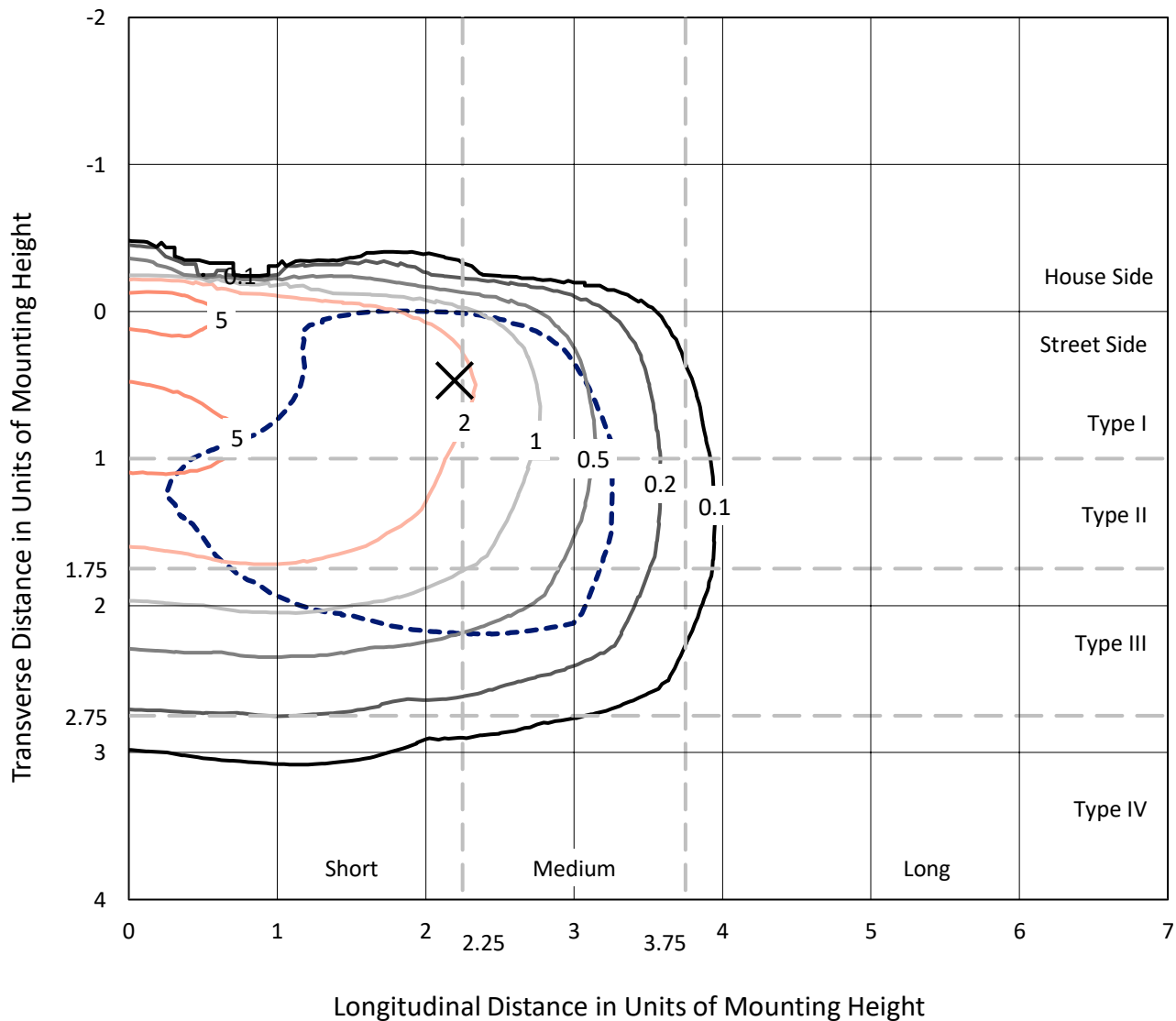
Lumens per Lamp: N/A  
Luminaire Lumens: 24397.9 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

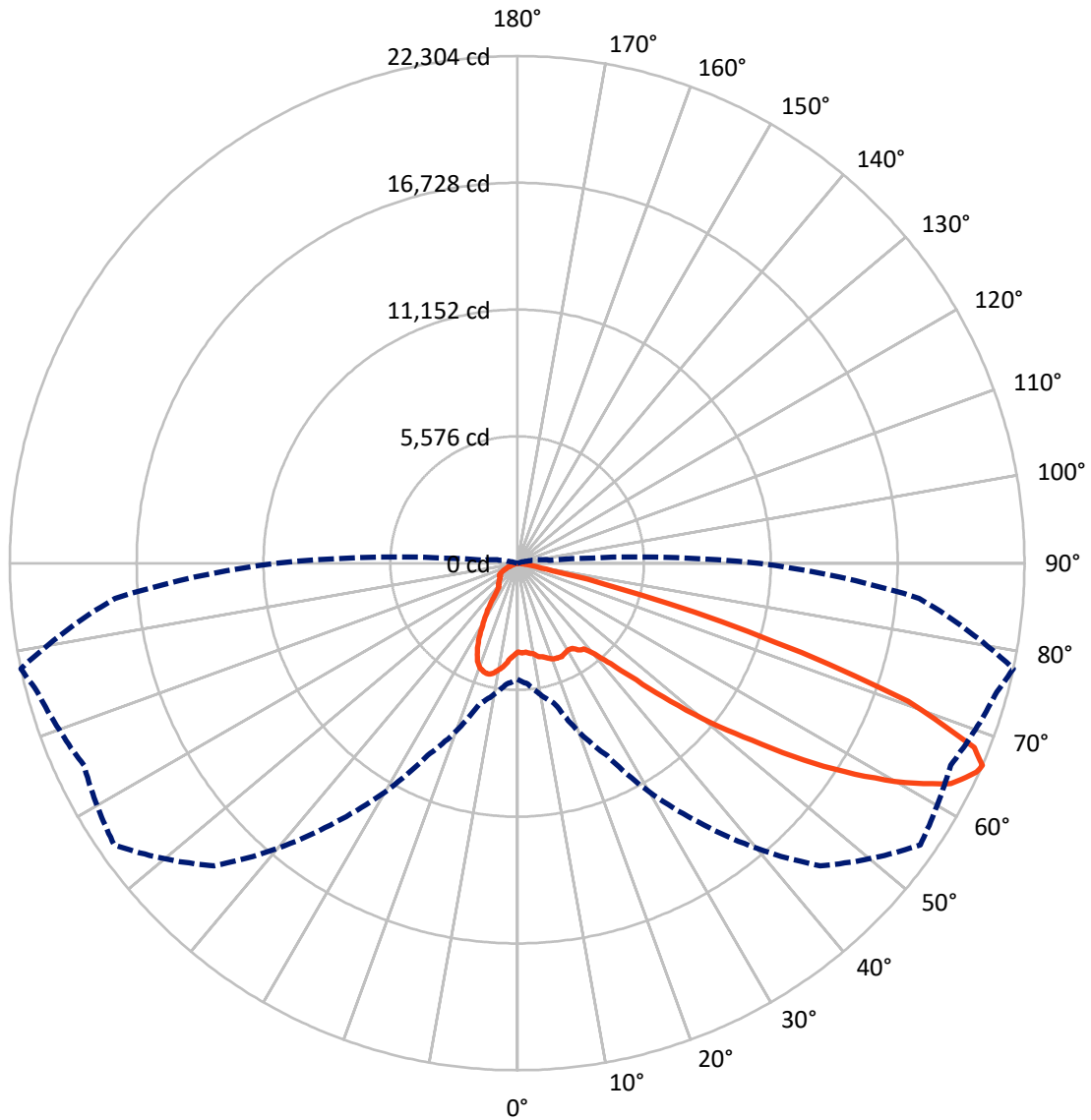
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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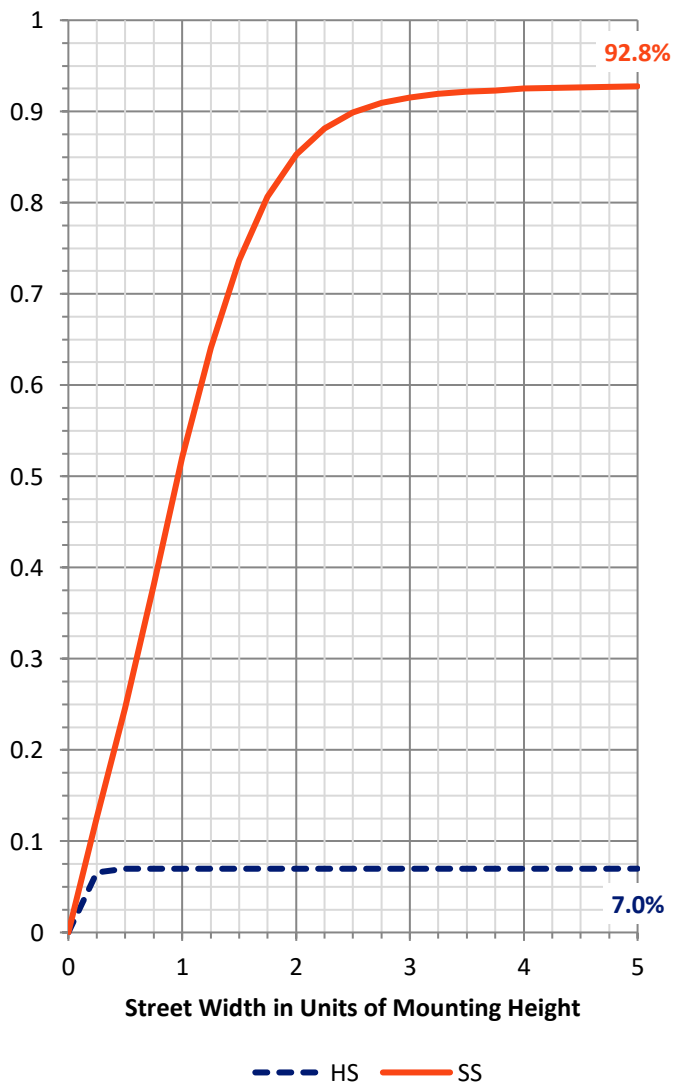
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1715.3	0.0	1715.3
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	22682.6	0.0	22682.6
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	24397.9	0.0	24397.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.5	1.5
10°-20°	807.0	3.3
20°-30°	1153.5	4.7
30°-40°	1974.4	8.1
40°-50°	3563.6	14.6
50°-60°	6094.3	25.0
60°-70°	7501.0	30.7
70°-80°	2835.8	11.6
80°-90°	110.8	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°	24397.9	100.0
0°-180°	24397.9	100.0

**Coefficient of Utilization**

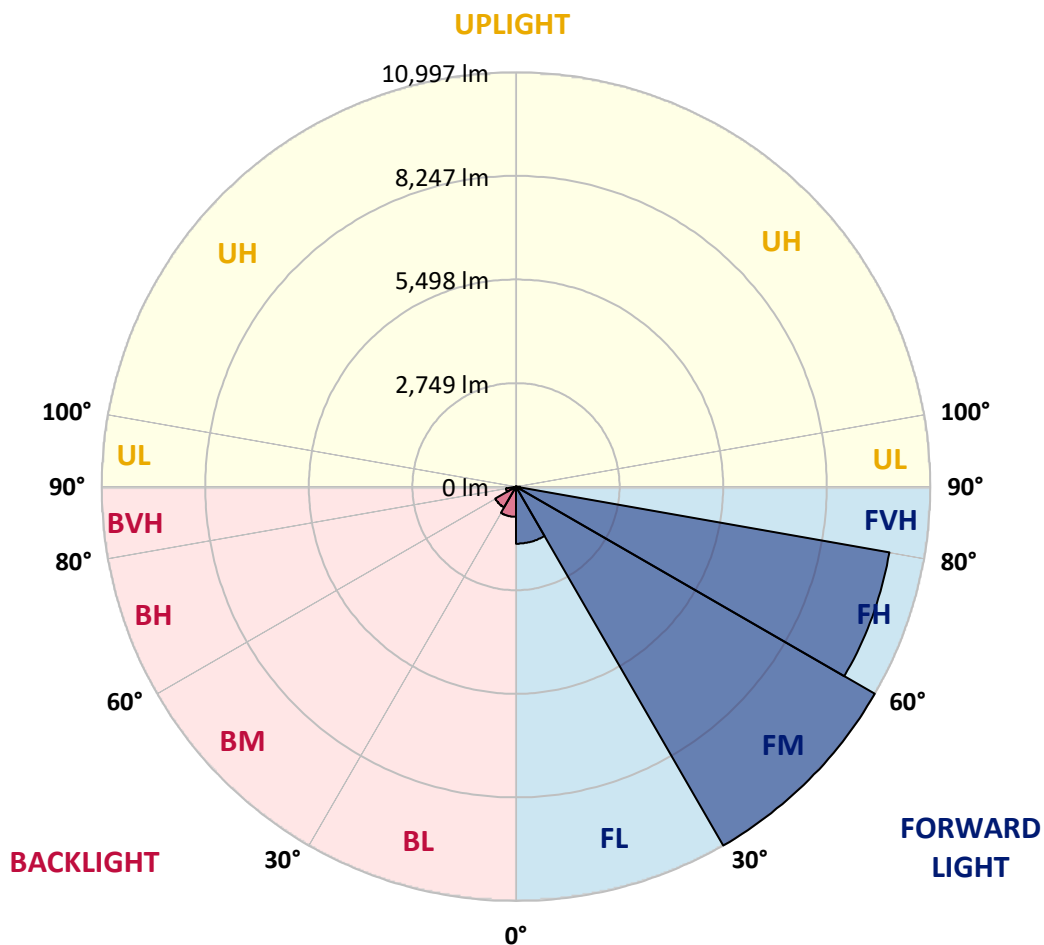


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.6	6.2			
FM (30°-60°)	10996.6	45.1			
FH (60°-80°)	10065.0	41.3			G4/12000
FVH (80°-90°)	106.3	0.4			G2/225
BL (0°-30°)	803.3	3.3	B2/1000		
BM (30°-60°)	635.7	2.6	B1/1000		
BH (60°-80°)	271.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	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°	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7
2.5°	3594.4	3561.2	3594.4	3642.3	3668.1	3690.2	3767.7	3834.0	3904.1	3952.0	3937.2
5°	3332.6	3395.3	3402.7	3417.4	3458.0	3590.7	3634.9	3749.2	3922.5	3937.2	4003.6
7.5°	3126.2	3107.8	3155.7	3251.5	3354.8	3432.2	3561.2	3760.3	3940.9	4003.6	4132.6
10°	2827.6	2864.5	2916.1	3011.9	3137.3	3329.0	3557.5	3778.7	4036.8	4058.9	4298.5
12.5°	2665.4	2628.5	2709.6	2809.2	3023.0	3199.9	3480.1	3745.5	4095.8	4217.4	4493.9
15°	2532.7	2551.1	2628.5	2694.9	2871.8	3096.7	3424.8	3826.6	4195.3	4280.1	4700.4
17.5°	2477.4	2466.3	2525.3	2591.6	2809.2	3063.5	3402.7	3830.3	4283.8	4394.4	4840.4
20°	2503.2	2525.3	2506.9	2569.5	2705.9	2964.0	3435.9	3900.4	4350.1	4501.3	4991.6
22.5°	2908.7	2879.2	2731.7	2613.8	2621.1	2923.4	3410.1	3944.6	4409.1	4530.8	5094.8
25°	3966.7	3808.2	3443.2	2989.8	2691.2	2812.8	3380.6	3929.9	4398.1	4549.2	5157.5
27.5°	5032.1	4895.7	4538.1	3834.0	2975.1	2768.6	3277.3	3940.9	4342.8	4482.9	5054.3
30°	6156.5	6230.3	5699.4	4862.6	3719.7	3011.9	3211.0	3881.9	4305.9	4423.9	5076.4
32.5°	7310.4	7280.9	6960.2	6053.3	4785.1	3550.2	3317.9	3940.9	4353.8	4468.1	5205.4
35°	8213.6	8110.4	7786.0	6967.6	5666.2	4361.2	3686.6	4221.1	4564.0	4700.4	5389.7
37.5°	8659.7	8704.0	8515.9	7804.4	6632.1	5113.3	4147.4	4221.1	4630.3	4788.8	5688.4
40°	9006.3	9139.0	9068.9	8840.4	7590.6	5961.2	4656.1	4482.9	4965.8	5264.4	6248.7
42.5°	9422.8	9360.2	9773.1	9562.9	8844.0	7030.3	5548.3	5105.9	5758.4	6046.0	7089.2
45°	9644.0	9883.7	10197.0	10466.1	10005.3	8364.8	6713.2	6208.2	6971.3	7336.2	8339.0
47.5°	10211.8	10307.6	10816.4	11155.5	10949.1	9891.0	8482.8	7819.2	8497.5	9072.6	9769.4
50°	10543.5	10414.5	11126.0	11642.1	11760.1	11155.5	10068.0	9551.9	10311.3	11044.9	11107.6
52.5°	10252.3	10621.0	11332.5	12257.8	12585.9	12283.6	11929.7	11704.8	12239.4	12917.7	12615.4
55°	9231.1	9481.8	11214.5	12932.4	13990.5	13850.4	14178.5	14031.0	14569.3	15288.1	14377.6
57.5°	8409.0	8722.4	10244.9	13282.7	15299.2	15712.1	16125.0	16032.8	16681.7	17511.1	15870.6
60°	7896.6	8077.2	9544.5	13194.2	16073.4	17636.5	18569.2	17920.3	18978.4	19612.5	17039.3
62.5°	7008.1	7122.4	8523.3	12021.9	16305.6	18996.8	20578.4	19697.3	20615.2	21389.4	17879.8
65°	5618.3	5928.0	7085.6	10267.1	14772.0	19247.5	21831.8	20795.9	21684.3	22193.1	18134.2
66°	5113.3	5338.1	6399.9	9338.0	13898.3	18830.9	21621.6	21024.4	21839.2	22303.7	17743.4
67.5°	4243.2	4438.6	5282.8	8014.6	12110.3	17913.0	21769.1	20869.6	21957.1	21673.3	17219.9
70°	2809.2	2934.5	3612.8	5419.2	8434.8	14654.1	20191.3	19660.4	19302.8	18237.4	13463.3
72.5°	1312.4	1493.1	2256.2	3284.7	4947.4	10252.3	16464.2	15752.7	13537.0	11833.8	8493.8
75°	593.5	674.6	1238.7	1883.8	2219.3	5312.3	10621.0	9592.4	6739.0	5596.2	3719.7
77.5°	320.7	365.0	604.6	895.8	807.4	1861.7	5257.0	4372.3	2123.5	1555.7	1080.2
80°	247.0	291.2	505.1	512.4	298.6	482.9	1953.9	1353.0	530.9	401.8	258.1
82.5°	129.0	184.3	398.1	331.8	151.1	195.4	604.6	376.0	165.9	132.7	110.6
85°	51.6	81.1	224.9	221.2	88.5	66.4	169.6	114.3	66.4	55.3	51.6
87.5°	3.7	3.7	121.7	84.8	55.3	18.4	25.8	25.8	33.2	29.5	36.9
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°	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7	3907.7
2.5°	4003.6	4047.8	4055.2	4176.9	4202.7	4176.9	4243.2	4232.2	4261.7	4239.5	4199.0
5°	4095.8	4158.4	4280.1	4372.3	4372.3	4298.5	4239.5	4162.1	4047.8	4018.3	3996.2
7.5°	4254.3	4453.4	4564.0	4505.0	4387.0	4110.5	3727.1	3446.9	3211.0	3122.5	3082.0
10°	4534.5	4645.1	4774.1	4534.5	4044.2	3458.0	2812.8	2388.9	2057.1	1983.4	1928.1
12.5°	4715.1	4892.1	4965.8	4372.3	3410.1	2536.4	1835.9	1356.7	1124.4	947.4	918.0
15°	4951.0	5153.8	5002.7	3933.6	2687.5	1662.6	951.1	593.5	482.9	453.4	453.4
17.5°	5113.3	5334.4	4851.5	3387.9	1905.9	884.8	471.9	409.2	401.8	405.5	398.1
20°	5397.1	5529.8	4622.9	2753.9	1139.1	453.4	379.7	365.0	357.6	368.7	361.3
22.5°	5504.0	5625.7	4250.6	1994.4	512.4	302.3	283.9	272.8	280.2	276.5	272.8
25°	5496.7	5559.3	3638.6	1142.8	151.1	118.0	106.9	106.9	99.5	103.2	99.5
27.5°	5552.0	5397.1	2952.9	339.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5581.4	5135.4	2101.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5596.2	4999.0	1353.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5710.5	4726.2	578.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5787.9	4375.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6108.6	4265.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6525.2	4058.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7104.0	3752.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7870.8	3572.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8442.2	3288.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9168.5	3118.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10031.1	3126.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10816.4	3074.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11218.2	2628.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11133.4	2127.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10838.5	1670.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10635.7	1478.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10020.1	1183.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7974.0	811.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5072.7	497.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2337.3	228.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	733.6	140.1	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	191.7	88.5	29.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	99.5	62.7	25.8	11.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	62.7	25.8	11.1	7.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	55.3	14.7	7.4	7.4	3.7	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)