

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: P481969

Luminaire Tested: **IFLD-L-SA8A-727-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481969  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

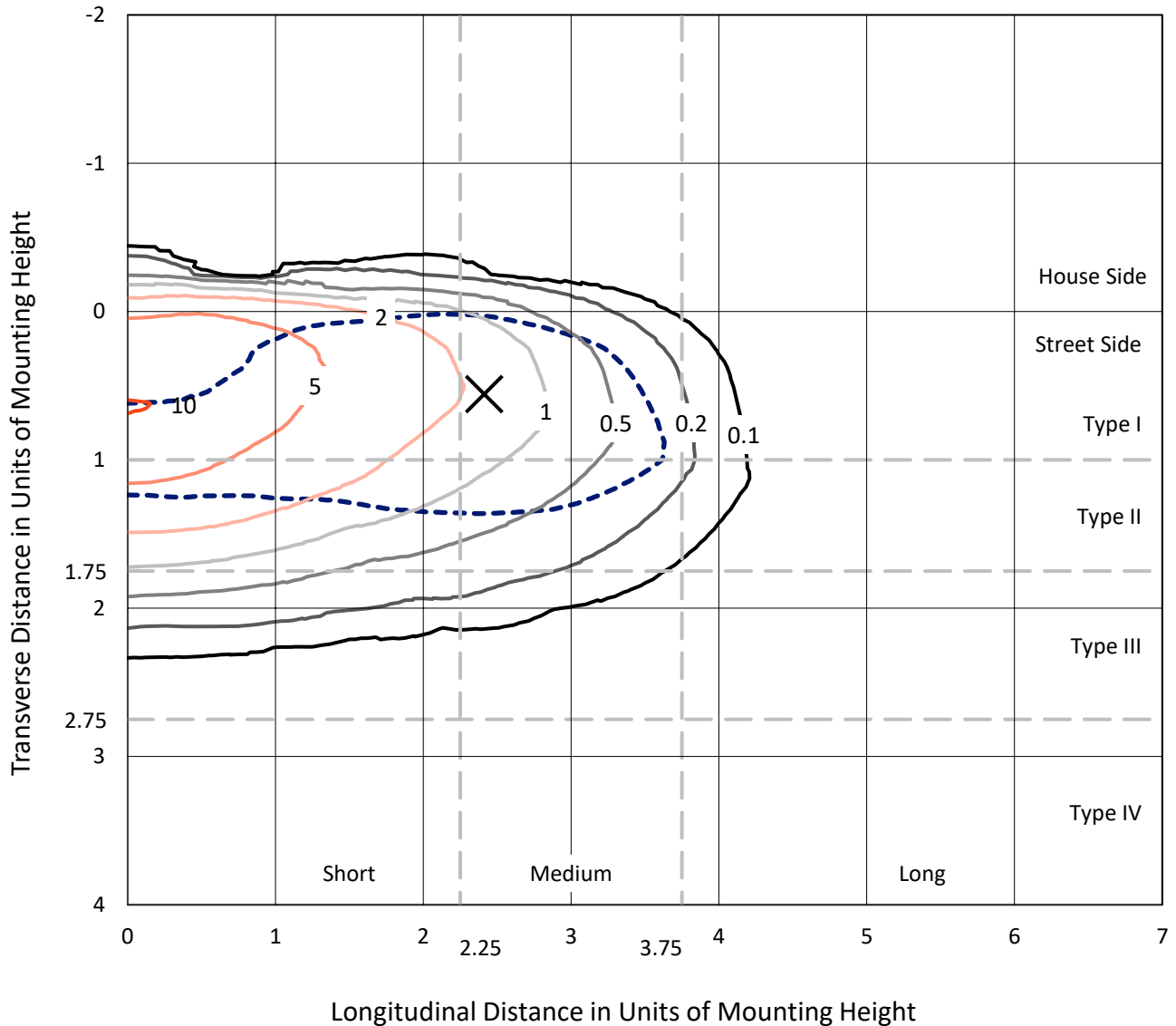
Lumens per Lamp: N/A  
Luminaire Lumens: 22523.7 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 247.8  
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

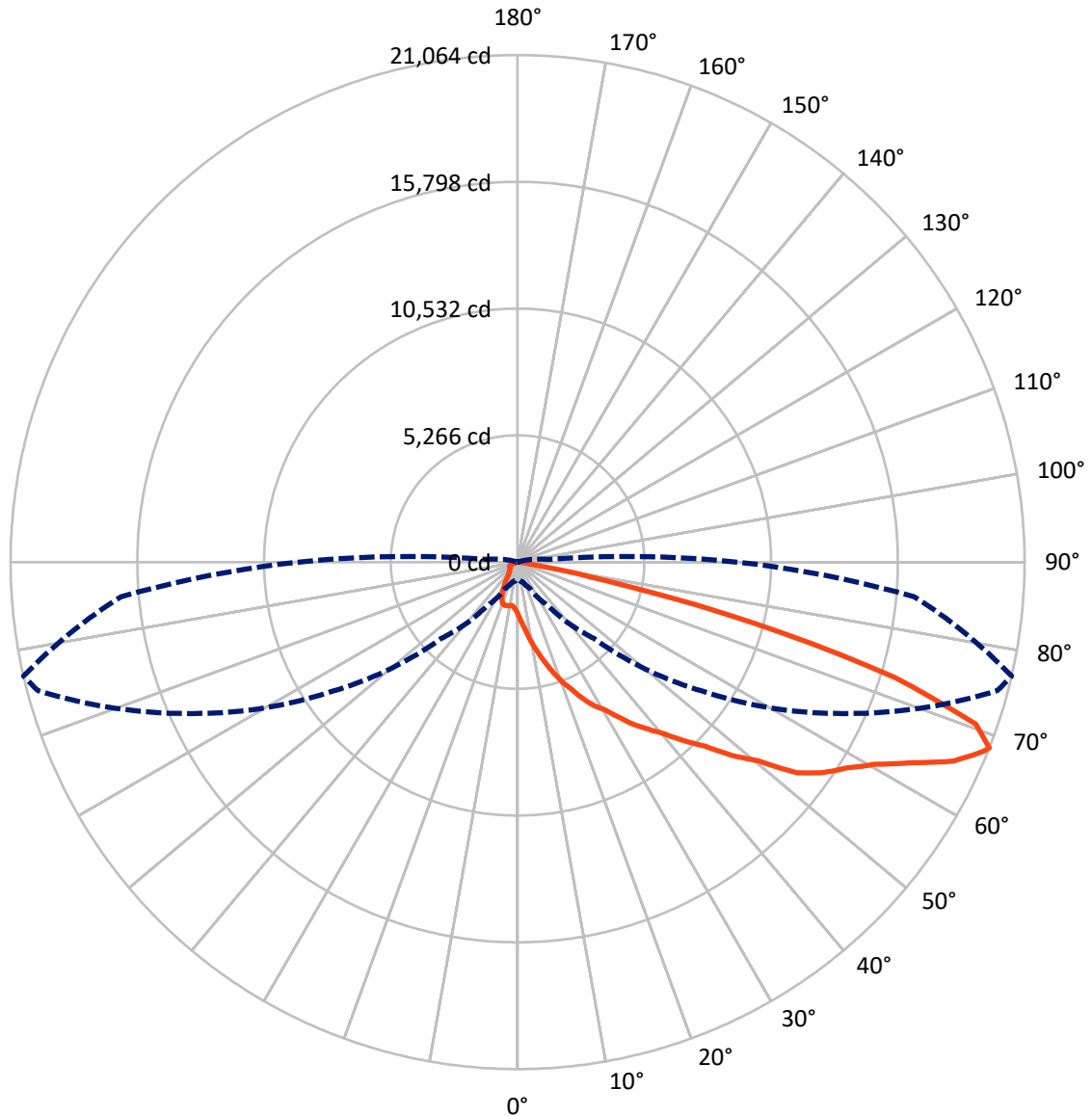
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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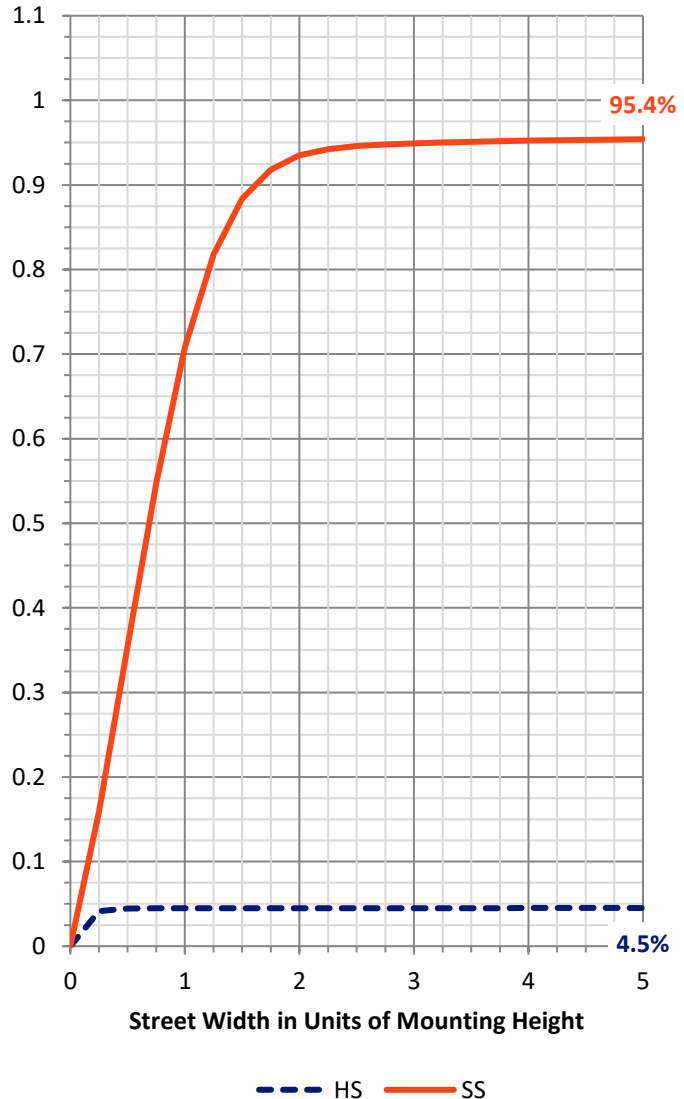
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1021.4	0.0	1021.4
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	21502.2	0.0	21502.2
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	22523.7	0.0	22523.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.0	1.1
10°-20°	929.2	4.1
20°-30°	1800.9	8.0
30°-40°	3139.6	13.9
40°-50°	4598.2	20.4
50°-60°	5402.1	24.0
60°-70°	4561.6	20.3
70°-80°	1768.2	7.9
80°-90°	71.9	0.3
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°	22523.7	100.0
0°-180°	22523.7	100.0

**Coefficient of Utilization**



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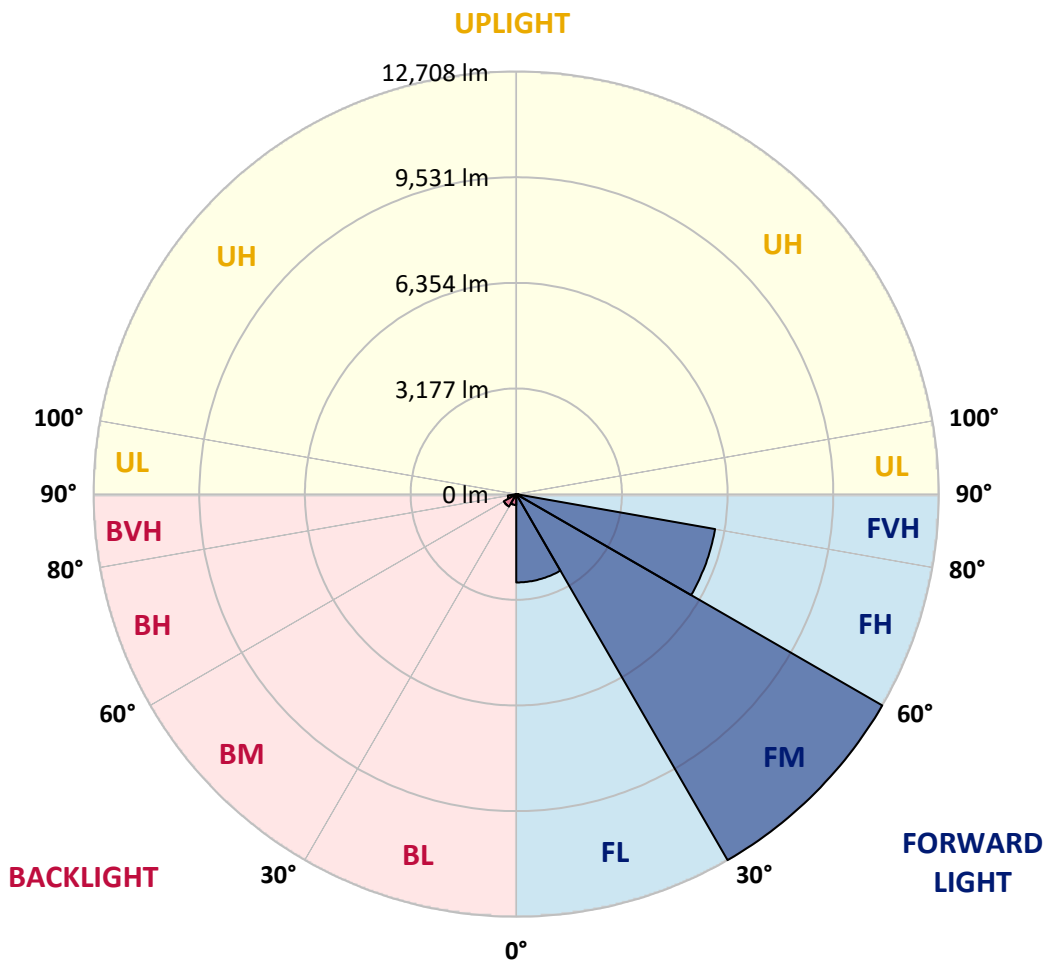
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2655.7	11.8			
FM (30°-60°)	12708.2	56.4			
FH (60°-80°)	6071.9	27.0			G3/7500
FVH (80°-90°)	66.3	0.3			G1/100
BL (0°-30°)	326.3	1.4	B1/500		
BM (30°-60°)	431.6	1.9	B1/1000		
BH (60°-80°)	257.9	1.1	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	3276.9	3214.8	3149.7	3131.1	3010.0	2873.5	2746.3	2622.1	2414.2	2417.3	2274.6
5°	4223.4	4145.8	4093.0	4080.6	3891.3	3655.5	3463.1	3112.4	2768.0	2690.4	2429.7
7.5°	5002.2	4977.4	4899.8	4834.7	4695.0	4406.4	4179.9	3677.2	3152.8	3065.9	2619.0
10°	5473.9	5511.2	5545.3	5461.5	5352.9	5145.0	4834.7	4291.6	3590.3	3481.7	2864.2
12.5°	5976.6	5914.6	5936.3	6004.6	5861.8	5815.3	5430.5	4924.7	4102.3	3894.4	3174.5
15°	6107.0	6131.8	6184.5	6383.1	6479.3	6345.9	6013.9	5436.7	4633.0	4344.4	3463.1
17.5°	6193.8	6181.4	6246.6	6544.5	6690.3	6817.6	6609.7	6007.7	5095.3	4837.8	3823.1
20°	6302.5	6234.2	6376.9	6566.2	6904.5	7171.3	7162.0	6581.7	5579.4	5306.4	4179.9
22.5°	6705.9	6653.1	6767.9	6786.5	7022.4	7394.8	7484.7	7050.3	6075.9	5740.8	4564.7
25°	7450.6	7546.8	7410.3	7292.4	7363.7	7608.9	7674.0	7466.1	6575.5	6268.3	4949.5
27.5°	8539.8	8527.4	8257.4	8105.4	7934.7	7903.7	7950.2	7854.0	6969.6	6749.3	5266.0
30°	9709.7	9607.3	9359.0	8992.9	8617.4	8384.7	8319.5	8220.2	7432.0	7112.4	5579.4
32.5°	10640.6	10696.5	10420.3	9942.4	9318.7	9005.3	8691.9	8583.3	7940.9	7658.5	5939.4
35°	11497.1	11422.6	11202.3	10798.9	10240.3	9734.5	9244.2	9011.5	8552.2	8272.9	6336.6
37.5°	12130.1	12223.2	11804.3	11419.5	10864.1	10445.1	9964.1	9455.2	9182.2	8809.8	6820.7
40°	12729.0	12583.2	12300.8	11947.0	11431.9	11112.3	10795.8	10001.4	9852.4	9371.4	7366.8
42.5°	12623.5	12632.8	12477.7	12192.2	11819.8	11636.7	11528.1	10665.5	10460.6	10153.4	7900.6
45°	12192.2	12229.4	12282.2	12142.5	12173.6	11990.5	12282.2	11428.8	11227.1	10901.3	8515.0
47.5°	11717.4	11779.5	11767.1	12021.5	12310.1	12372.2	13101.4	12276.0	12189.1	12009.1	9365.2
50°	10929.2	10954.0	11193.0	11655.4	12049.4	12698.0	13715.8	13200.7	13334.1	12980.4	10376.9
52.5°	9582.5	9672.5	10286.9	10947.8	11742.2	12862.5	14131.6	14575.4	14913.6	14550.6	11348.1
55°	7878.8	8003.0	8608.1	9846.2	11009.9	12614.2	14510.2	15301.5	15987.3	15438.1	11937.7
57.5°	6339.7	6352.1	6895.2	8173.6	9970.4	12127.0	14702.6	15655.3	16576.9	16136.3	12657.7
60°	4831.6	4781.9	5269.1	6376.9	8220.2	10929.2	14221.6	15835.3	17312.4	17057.9	13523.4
62.5°	3109.3	3031.8	3562.4	4642.3	6420.4	8933.9	13259.7	15838.4	18460.5	18364.3	14972.6
65°	1539.2	1486.4	1942.6	2845.6	4443.7	6833.1	11888.1	15779.4	19863.1	19925.2	16384.5
67.5°	813.0	831.6	977.5	1443.0	2563.2	4828.5	9821.4	15087.4	20580.0	20927.5	16725.9
68°	747.9	754.1	868.9	1200.9	2224.9	4477.8	9331.1	14885.7	20635.8	21064.0	16536.6
70°	608.2	617.5	657.9	754.1	1204.0	2913.8	7199.3	13172.8	19794.9	20185.9	14969.5
72.5°	484.1	512.0	536.8	577.2	707.5	1529.8	4477.8	10265.2	16353.5	16396.9	11652.2
75°	369.3	391.0	440.6	474.8	552.4	840.9	2131.8	6259.0	10730.6	10203.1	6864.1
77.5°	285.5	304.1	325.8	372.4	462.4	567.9	651.7	2656.3	4558.5	3751.7	1939.5
80°	170.7	183.1	254.5	291.7	403.4	384.8	257.6	738.5	924.7	729.2	353.8
82.5°	99.3	108.6	145.8	223.4	282.4	207.9	152.1	229.6	226.5	198.6	117.9
85°	3.1	6.2	80.7	133.4	99.3	55.9	93.1	96.2	80.7	74.5	52.8
87.5°	0.0	3.1	21.7	18.6	21.7	12.4	18.6	24.8	31.0	27.9	21.7
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°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2178.4	2110.1	1958.1	1843.3	1719.1	1644.7	1570.2	1523.6	1498.8	1483.3	1495.7
5°	2234.3	2091.5	1846.4	1629.1	1486.4	1390.2	1294.0	1244.4	1197.8	1173.0	1188.5
7.5°	2358.4	2144.3	1737.8	1501.9	1334.3	1185.4	1064.4	968.2	912.3	862.7	872.0
10°	2510.4	2175.3	1740.9	1427.4	1185.4	949.6	778.9	657.9	589.6	546.2	543.0
12.5°	2665.6	2296.3	1753.3	1353.0	1002.3	713.7	512.0	422.0	381.7	360.0	360.0
15°	2901.4	2404.9	1722.2	1216.4	760.3	465.5	350.7	319.6	304.1	285.5	288.6
17.5°	3106.2	2578.7	1706.7	1011.6	521.3	335.1	291.7	257.6	242.0	223.4	223.4
20°	3382.4	2687.3	1622.9	782.0	360.0	279.3	235.8	204.8	180.0	164.5	167.6
22.5°	3633.8	2771.1	1474.0	533.7	276.2	220.3	173.8	142.7	121.0	102.4	105.5
25°	3906.8	2854.9	1256.8	328.9	195.5	136.5	93.1	68.3	46.5	34.1	34.1
27.5°	4102.3	2879.7	974.4	195.5	117.9	62.1	21.7	3.1	0.0	0.0	0.0
30°	4300.9	2889.0	673.4	105.5	46.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4527.5	2885.9	422.0	55.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	4701.2	2833.2	201.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4965.0	2755.6	62.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5266.0	2615.9	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5536.0	2473.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5843.2	2296.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6383.1	2221.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7087.5	2162.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7522.0	1989.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7748.5	1809.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8083.7	1722.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8580.2	1728.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9355.9	1815.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9784.2	1728.4	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9421.1	1384.0	59.0	15.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	9107.7	1272.3	59.0	15.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	7528.2	828.5	55.9	15.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5483.2	459.3	46.5	12.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	3190.0	229.6	34.1	12.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	831.6	114.8	27.9	15.5	9.3	3.1	0.0	0.0	0.0	0.0	0.0
80°	164.5	74.5	24.8	18.6	12.4	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	77.6	52.8	24.8	18.6	15.5	9.3	3.1	0.0	0.0	0.0	0.0
85°	40.3	24.8	24.8	18.6	18.6	12.4	6.2	0.0	0.0	0.0	0.0
87.5°	18.6	9.3	9.3	9.3	9.3	6.2	3.1	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)