

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: P481543

Luminaire Tested: **IFLD-L-SA8D-722-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481543  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-722-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

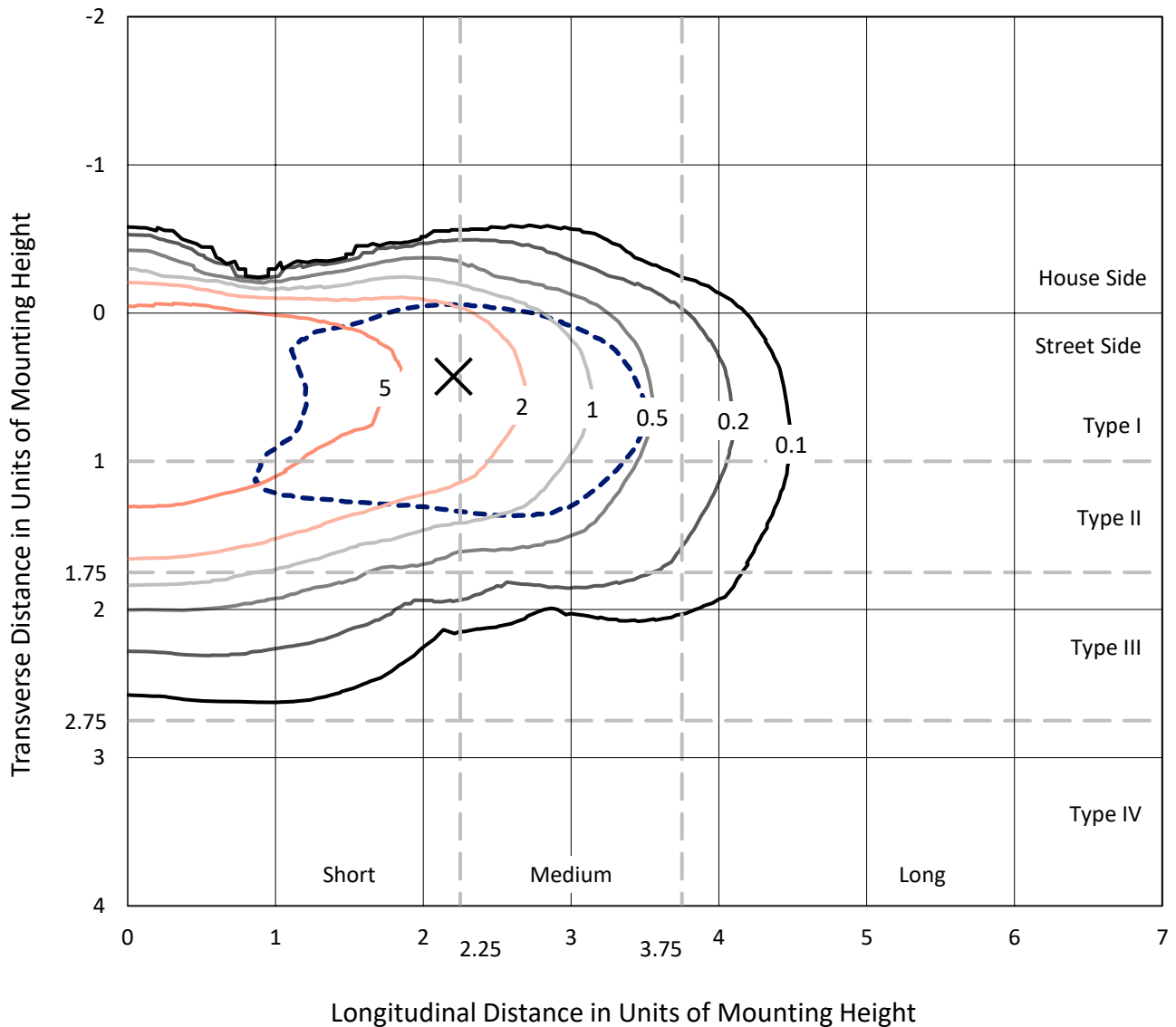
Lumens per Lamp: N/A  
Luminaire Lumens: 29571.5 lumens  
Efficiency: N/A  
Efficacy: 60.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3  
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

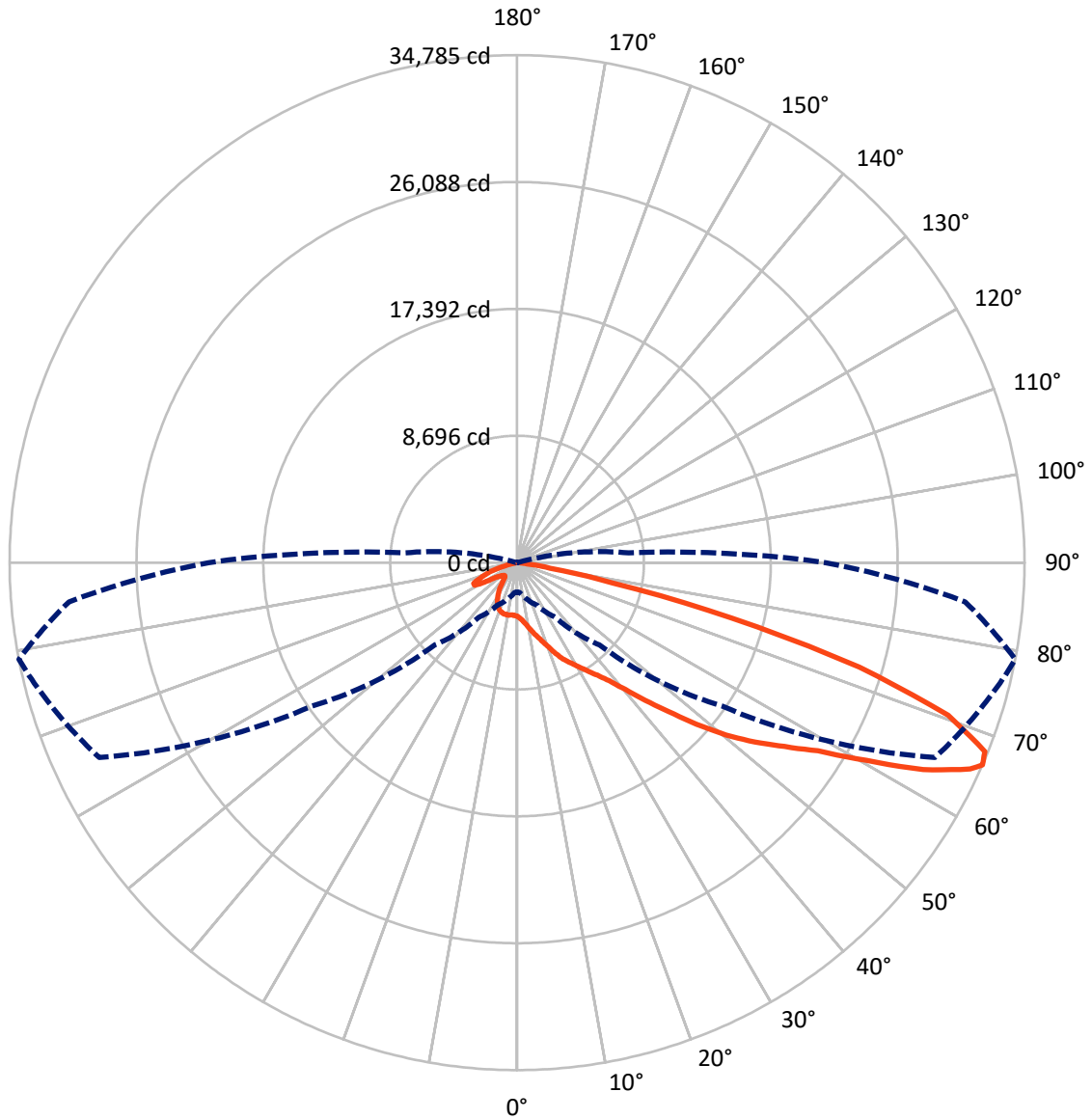
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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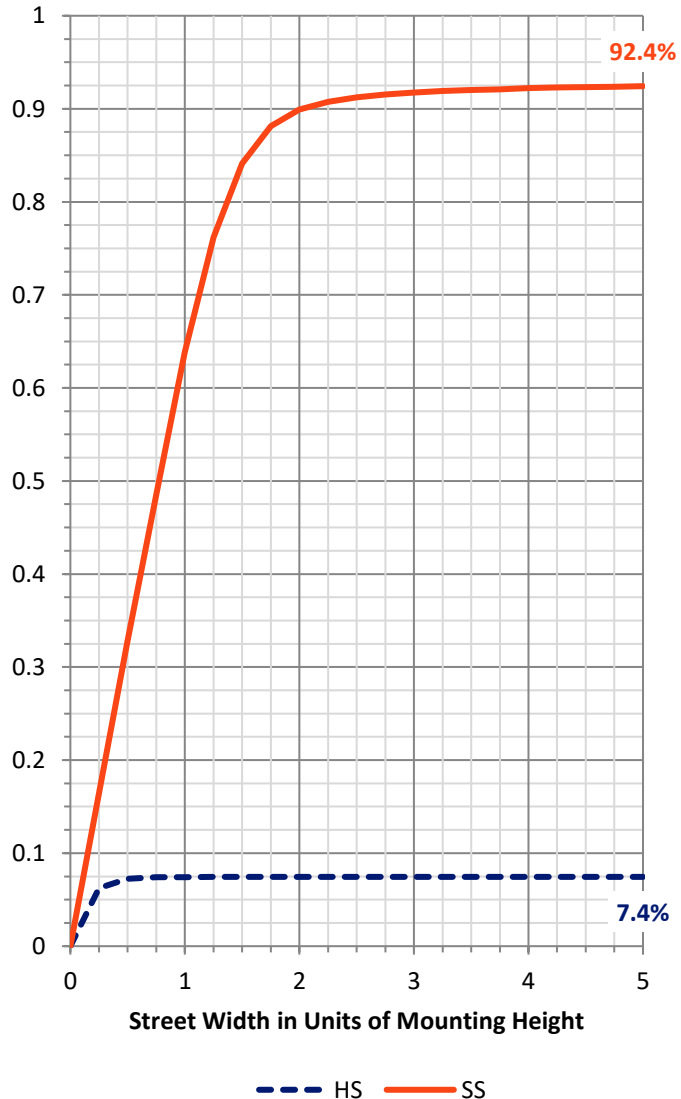
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2220.4	0.0	2220.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	27351.1	0.0	27351.1
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	29571.5	0.0	29571.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.9	1.2
10°-20°	957.6	3.2
20°-30°	1590.8	5.4
30°-40°	2732.3	9.2
40°-50°	4950.0	16.7
50°-60°	7824.5	26.5
60°-70°	7962.0	26.9
70°-80°	3036.3	10.3
80°-90°	170.2	0.6
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°	29571.5	100.0
0°-180°	29571.5	100.0

**Coefficient of Utilization**



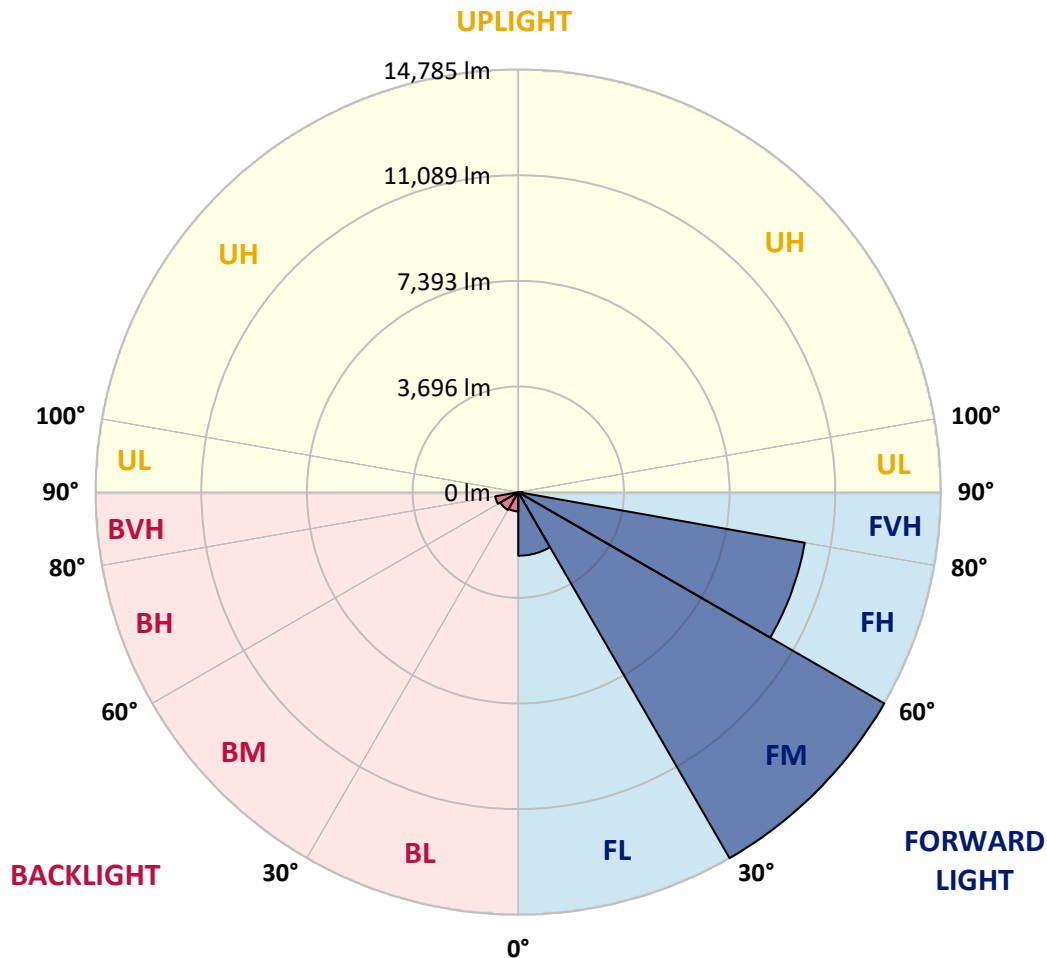
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2224.8	7.5			
FM (30°-60°)	14785.1	50.0			
FH (60°-80°)	10179.7	34.4			G4/12000
FVH (80°-90°)	161.5	0.5			G2/225
BL (0°-30°)	671.5	2.3	B2/1000		
BM (30°-60°)	721.7	2.4	B1/1000		
BH (60°-80°)	818.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	8.7	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1
2.5°	4166.9	4162.3	4144.1	4112.2	4071.1	4057.4	3998.2	3916.1	3870.5	3820.4	3797.6
5°	4454.1	4431.3	4486.0	4463.2	4472.3	4362.9	4290.0	4230.7	4057.4	3989.1	3879.6
7.5°	4517.9	4540.7	4536.1	4572.6	4609.1	4650.1	4600.0	4513.3	4340.1	4239.8	4121.3
10°	4517.9	4508.8	4545.3	4595.4	4700.3	4791.4	4928.2	4814.2	4682.0	4563.5	4349.2
12.5°	4435.8	4422.2	4458.6	4563.5	4750.4	4937.3	5087.8	5197.2	5010.3	4914.5	4636.4
15°	4185.1	4171.4	4321.9	4508.8	4755.0	5060.4	5375.0	5552.8	5425.1	5274.7	4964.7
17.5°	3875.1	3893.3	4052.9	4362.9	4755.0	5119.7	5520.9	5908.4	5890.1	5698.7	5375.0
20°	3770.2	3783.9	3943.5	4166.9	4613.6	5160.7	5748.8	6295.9	6405.3	6177.3	5753.4
22.5°	3970.8	3957.2	3970.8	4107.6	4517.9	5124.2	5899.3	6738.1	6934.1	6756.3	6250.3
25°	4654.7	4645.5	4531.6	4321.9	4463.2	5042.2	5976.8	7029.9	7481.2	7317.1	6651.5
27.5°	5657.6	5621.2	5443.4	5005.7	4718.5	5092.3	6104.4	7312.5	7959.9	7773.0	7011.6
30°	6733.5	6646.9	6414.4	5867.3	5379.5	5279.2	6177.3	7522.2	8493.3	8256.2	7326.2
32.5°	7476.6	7590.6	7517.7	6961.5	6213.8	5712.3	6295.9	7786.7	8985.7	8830.6	7864.2
35°	8625.5	8757.7	8452.3	7959.9	7207.7	6400.7	6546.6	8000.9	9742.4	9482.6	8365.6
37.5°	10075.2	10175.5	9956.7	9022.1	8228.9	7248.7	7061.8	8447.7	10394.4	10271.3	9008.4
40°	10804.7	11287.9	10977.9	10134.5	9282.0	8434.0	7914.3	8972.0	11529.5	11429.2	9897.4
42.5°	11812.2	12053.8	11894.2	11269.7	10380.7	9701.4	8967.4	9993.2	12906.3	12906.3	11101.0
45°	12879.0	12888.1	12879.0	12368.4	11579.7	11228.6	10389.8	11274.2	14388.0	14552.1	12541.6
47.5°	13754.3	14027.8	14005.0	13699.6	13088.7	12956.5	11812.2	12733.1	16248.0	16535.2	13945.8
50°	14205.6	14511.1	14602.3	14761.8	14734.5	15012.6	13366.8	14424.5	17852.8	18559.4	15751.1
52.5°	14082.5	14105.3	14666.1	15295.2	16298.2	17077.8	15240.5	16343.8	19731.0	20428.6	17146.1
55°	13075.0	12988.4	14141.8	14862.1	16936.4	18340.6	17834.5	18737.2	21194.5	22256.7	18586.8
57.5°	10863.9	10886.7	11953.5	13416.9	16462.3	18842.1	20606.4	21864.6	23246.0	24317.3	20610.9
60°	7499.4	7472.1	8666.5	10357.9	13676.8	17907.5	22202.0	25917.5	25990.5	27508.6	24244.4
62.5°	4217.0	4226.1	5133.4	6578.5	9569.2	14634.2	22124.5	30221.1	29911.1	31242.3	28374.8
65°	2388.9	2448.1	3072.7	3897.9	5730.6	9824.5	19029.0	31935.3	32933.7	34119.0	30882.2
66°	2019.6	2060.6	2594.0	3218.6	4572.6	7969.0	17127.9	31602.5	33882.0	34784.6	30832.0
67.5°	1563.7	1618.4	2065.2	2553.0	3355.4	5516.3	13786.2	29947.6	34055.2	34584.0	29961.3
70°	1071.3	1107.8	1449.7	1937.5	2293.1	2822.0	8242.5	24759.5	30900.4	31347.2	26040.6
72.5°	752.2	770.5	1016.6	1468.0	1764.3	1613.9	4089.4	17615.7	23647.2	24517.9	20255.3
75°	542.5	560.7	697.5	1053.1	1376.8	1057.7	1873.7	11251.4	14502.0	15185.8	12199.7
77.5°	392.1	414.9	474.1	679.3	998.4	743.1	920.9	5876.5	6838.4	6719.9	5247.3
80°	237.1	259.9	351.0	437.7	729.4	524.3	506.0	2452.7	2425.4	2302.3	1650.3
82.5°	109.4	127.7	186.9	296.3	510.6	364.7	241.6	875.3	765.9	702.1	465.0
85°	31.9	41.0	109.4	223.4	259.9	177.8	145.9	300.9	314.6	269.0	155.0
87.5°	0.0	4.6	50.1	54.7	77.5	59.3	54.7	77.5	145.9	118.5	50.1
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°	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1	3679.1
2.5°	3715.5	3683.6	3606.1	3487.6	3382.7	3328.0	3250.5	3182.1	3145.7	3141.1	3136.5
5°	3806.7	3720.1	3533.2	3318.9	3159.3	2986.1	2867.6	2780.9	2698.9	2621.4	2667.0
7.5°	3929.8	3793.0	3487.6	3209.5	2863.0	2639.6	2429.9	2306.8	2233.9	2165.5	2156.4
10°	4121.3	3948.0	3455.7	2954.2	2557.6	2229.3	2015.0	1837.2	1737.0	1618.4	1664.0
12.5°	4381.1	4071.1	3337.1	2721.7	2211.1	1864.6	1559.2	1271.9	1112.4	989.3	993.8
15°	4641.0	4235.2	3227.7	2439.0	1896.5	1440.6	993.8	797.8	752.2	724.9	734.0
17.5°	4896.3	4367.5	3059.0	2151.8	1536.4	916.3	724.9	683.8	661.0	633.7	633.7
20°	5206.3	4454.1	2849.3	1887.4	1057.7	679.3	620.0	592.7	556.2	519.7	524.3
22.5°	5507.2	4527.0	2607.7	1550.0	711.2	588.1	519.7	483.2	451.3	414.9	414.9
25°	5808.1	4549.8	2293.1	1112.4	574.4	469.6	405.7	355.6	323.7	291.8	296.3
27.5°	6013.2	4408.5	1996.8	711.2	460.5	355.6	282.7	241.6	214.3	182.4	182.4
30°	6131.8	4148.6	1677.7	501.5	346.5	241.6	168.7	127.7	100.3	77.5	72.9
32.5°	6250.3	3938.9	1317.5	383.0	227.9	127.7	63.8	22.8	0.0	0.0	0.0
35°	6487.4	3701.9	884.4	214.3	77.5	4.6	0.0	0.0	0.0	0.0	0.0
37.5°	6637.8	3373.6	405.7	31.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7016.2	3209.5	100.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7631.6	3095.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8306.4	3049.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9204.5	3173.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10152.7	3505.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11192.2	3820.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12099.4	4198.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13768.0	5092.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16763.2	6847.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	20136.8	8151.4	50.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21372.3	8119.5	86.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	21153.4	7672.7	86.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	20018.3	6815.6	77.5	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17191.7	5630.3	77.5	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13106.9	4385.7	72.9	18.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	7909.7	2334.2	59.3	22.8	9.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3150.2	820.6	45.6	18.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	852.5	246.2	27.4	18.2	13.7	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	223.4	91.2	22.8	18.2	9.1	4.6	0.0	0.0	0.0	0.0	0.0
85°	86.6	36.5	18.2	13.7	13.7	9.1	4.6	0.0	0.0	0.0	0.0
87.5°	27.4	13.7	13.7	9.1	9.1	4.6	4.6	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)