

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: P482230

Luminaire Tested: **IFLD-S-SA6D-830-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482230  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-830-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

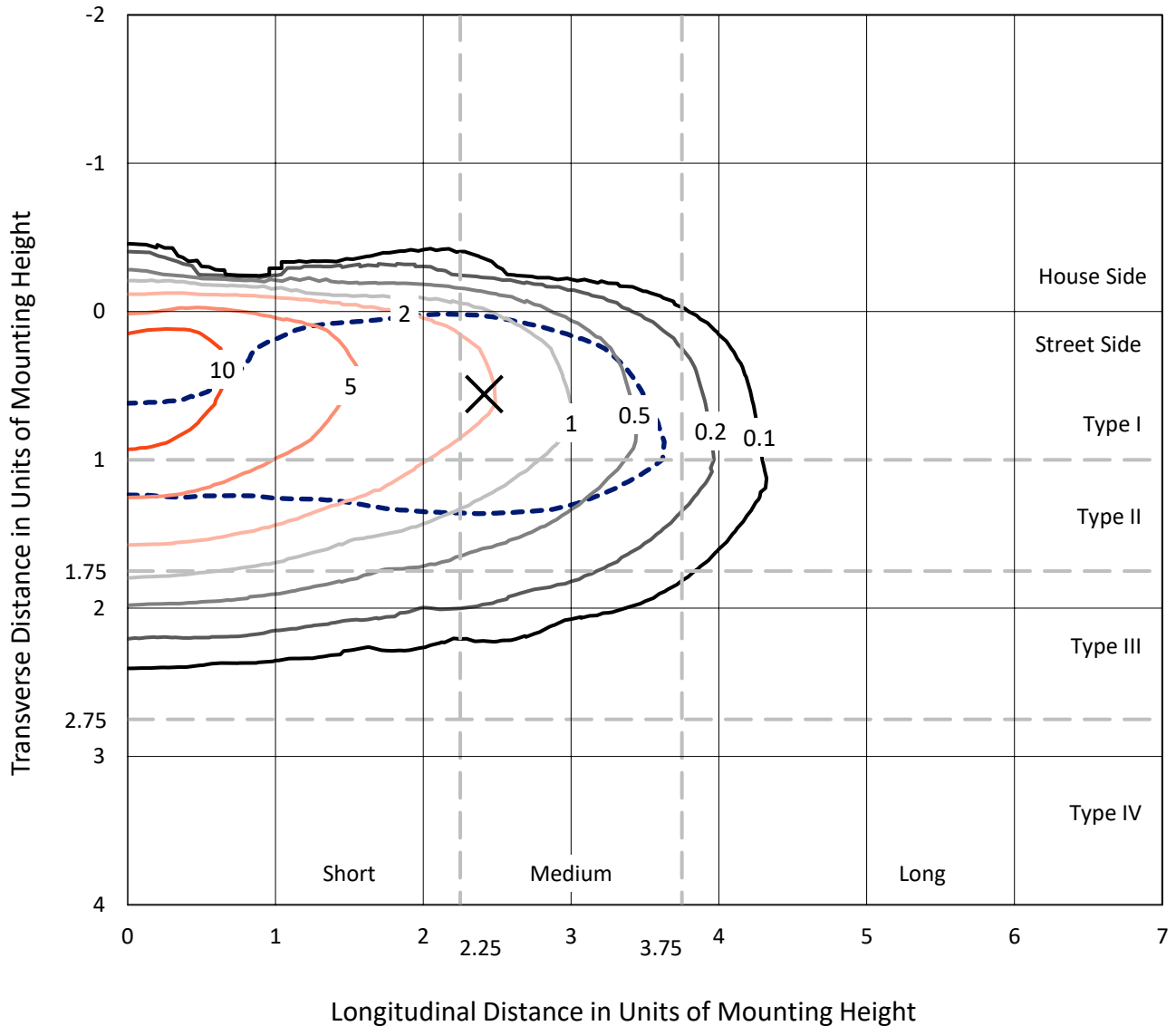
Lumens per Lamp: N/A  
Luminaire Lumens: 28563.4 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 368.2  
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

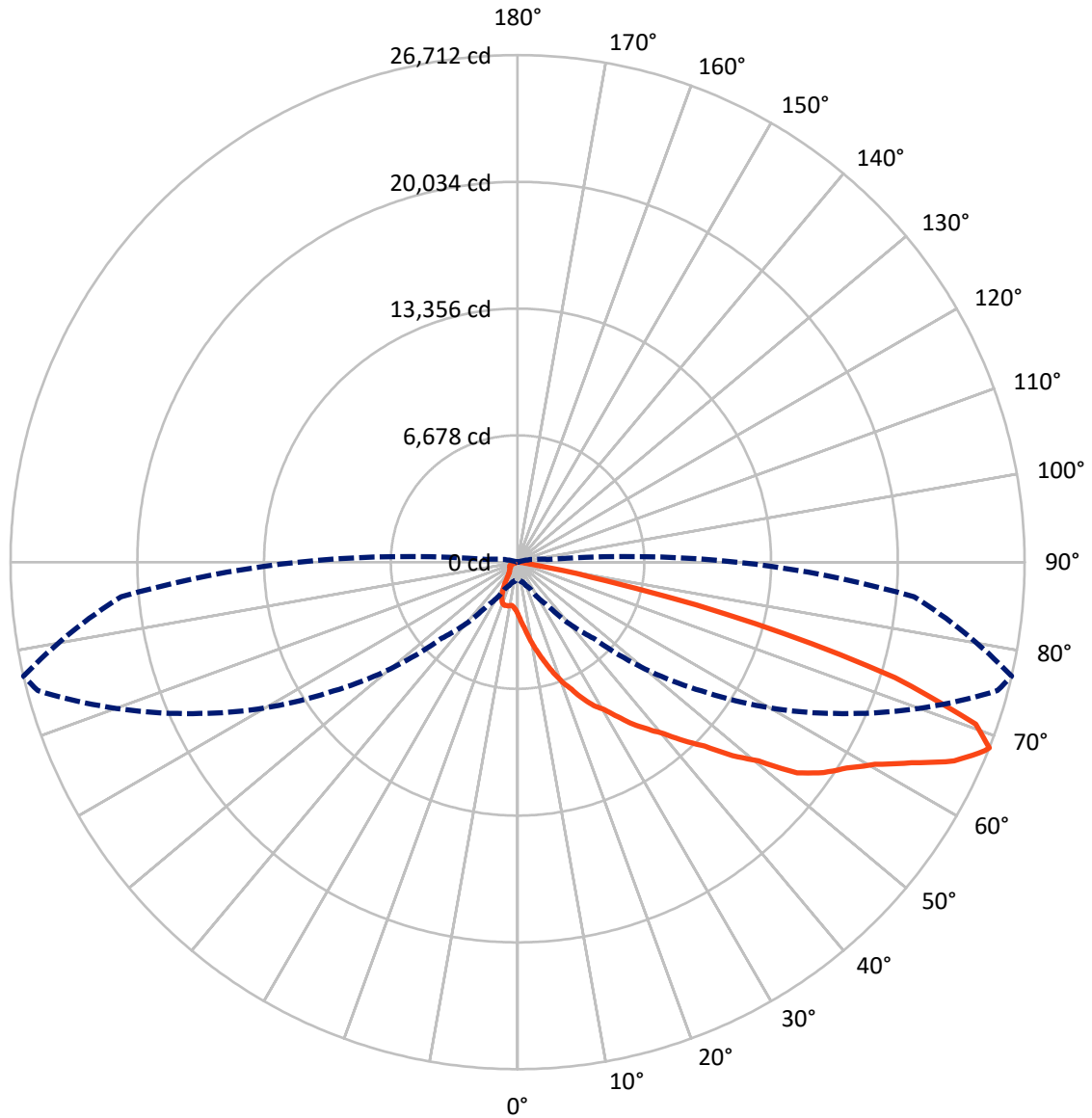
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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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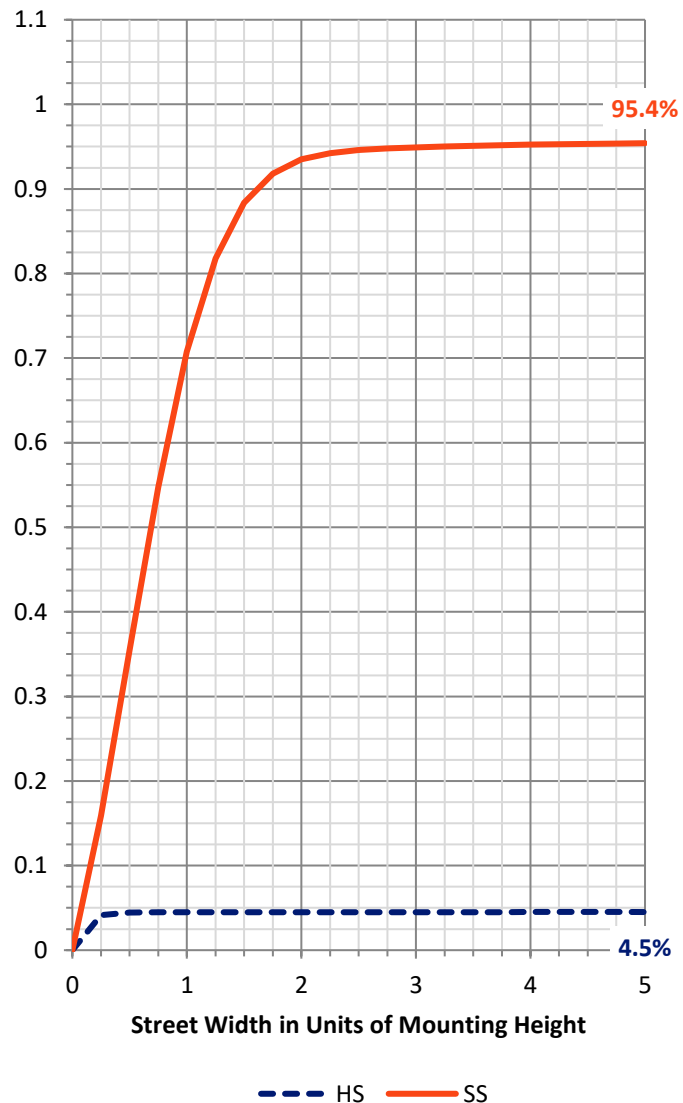
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1295.3	0.0	1295.3
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	27268.1	0.0	27268.1
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	28563.4	0.0	28563.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.5	1.1
10°-20°	1178.4	4.1
20°-30°	2283.8	8.0
30°-40°	3981.4	13.9
40°-50°	5831.2	20.4
50°-60°	6850.7	24.0
60°-70°	5784.8	20.3
70°-80°	2242.3	7.9
80°-90°	91.2	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°	28563.4	100.0
0°-180°	28563.4	100.0

**Coefficient of Utilization**



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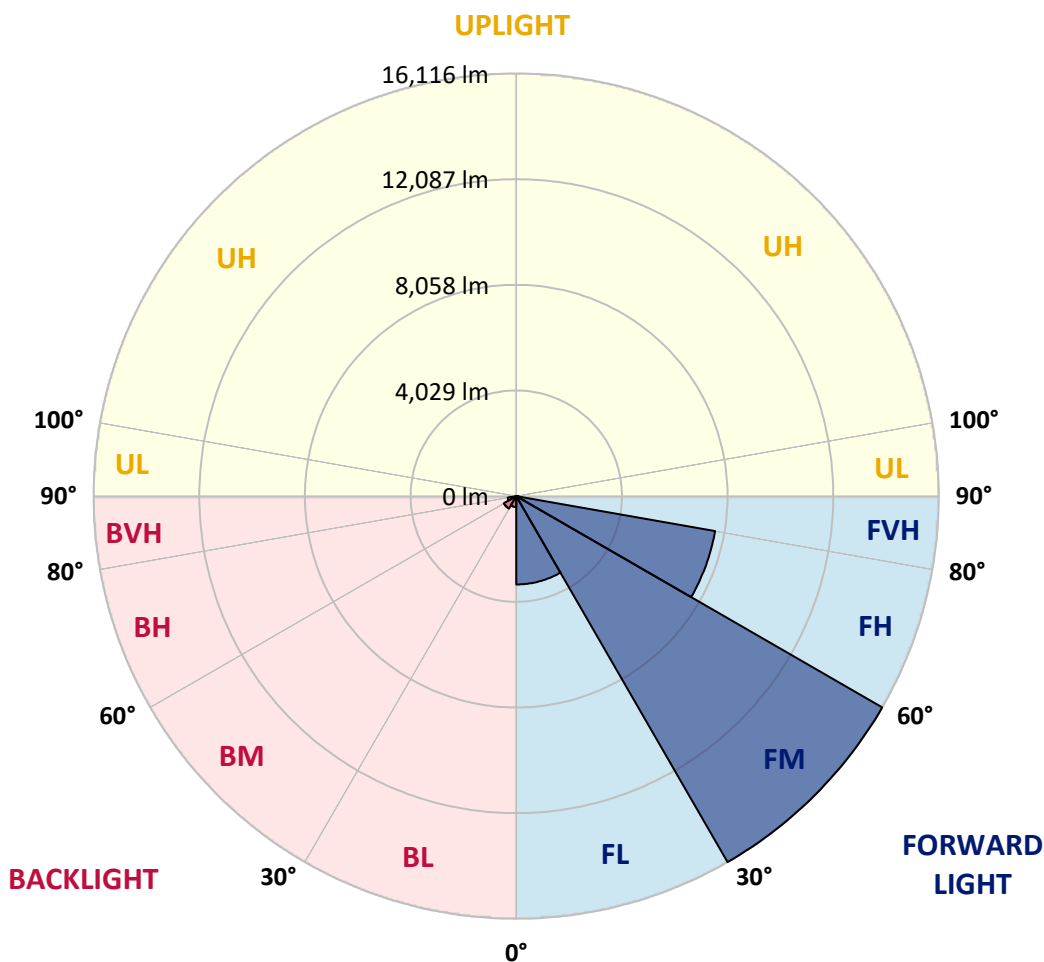
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3367.9	11.8			
FM (30°-60°)	16116.0	56.4			
FH (60°-80°)	7700.1	27.0			G4/12000
FVH (80°-90°)	84.1	0.3			G1/100
BL (0°-30°)	413.9	1.4	B1/500		
BM (30°-60°)	547.3	1.9	B1/1000		
BH (60°-80°)	327.1	1.1	B1/500		G1/500
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0
2.5°	4155.6	4076.9	3994.3	3970.6	3817.2	3644.0	3482.7	3325.3	3061.6	3065.5	2884.5
5°	5355.8	5257.5	5190.6	5174.8	4934.8	4635.7	4391.7	3947.0	3510.2	3411.8	3081.3
7.5°	6343.6	6312.1	6213.7	6131.1	5954.0	5588.0	5300.8	4663.2	3998.2	3888.0	3321.3
10°	6941.7	6989.0	7032.3	6926.0	6788.3	6524.6	6131.1	5442.4	4553.1	4415.3	3632.2
12.5°	7579.3	7500.6	7528.1	7614.7	7433.7	7374.6	6886.7	6245.2	5202.4	4938.7	4025.7
15°	7744.5	7776.0	7842.9	8094.8	8216.8	8047.5	7626.5	6894.5	5875.3	5509.3	4391.7
17.5°	7854.7	7839.0	7921.6	8299.4	8484.4	8645.7	8382.0	7618.6	6461.7	6135.0	4848.2
20°	7992.5	7905.9	8086.9	8326.9	8755.9	9094.3	9082.5	8346.6	7075.5	6729.2	5300.8
22.5°	8504.0	8437.1	8582.7	8606.4	8905.4	9377.7	9491.8	8940.8	7705.2	7280.2	5788.7
25°	9448.5	9570.5	9397.3	9247.8	9338.3	9649.2	9731.8	9468.2	8338.8	7949.2	6276.7
27.5°	10829.8	10814.0	10471.7	10278.8	10062.4	10023.0	10082.1	9960.1	8838.5	8559.1	6678.1
30°	12313.3	12183.5	11868.7	11404.3	10928.1	10633.0	10550.4	10424.4	9424.9	9019.6	7075.5
32.5°	13493.9	13564.7	13214.5	12608.5	11817.5	11420.0	11022.6	10884.9	10070.3	9712.2	7532.0
35°	14580.0	14485.6	14206.2	13694.6	12986.3	12344.8	11723.1	11427.9	10845.5	10491.3	8035.7
37.5°	15382.8	15500.9	14969.6	14481.7	13777.2	13246.0	12636.0	11990.7	11644.3	11172.1	8649.6
40°	16142.3	15957.4	15599.3	15150.6	14497.4	14092.1	13690.7	12683.3	12494.4	11884.4	9342.2
42.5°	16008.5	16020.3	15823.6	15461.5	14989.3	14757.1	14619.4	13525.4	13265.7	12876.1	10019.1
45°	15461.5	15508.7	15575.6	15398.6	15437.9	15205.7	15575.6	14493.5	14237.7	13824.5	10798.3
47.5°	14859.4	14938.1	14922.4	15245.1	15611.1	15689.8	16614.5	15567.8	15457.6	15229.3	11876.5
50°	13859.9	13891.4	14194.4	14780.7	15280.5	16103.0	17393.7	16740.5	16909.7	16461.1	13159.4
52.5°	12152.0	12266.1	13045.3	13883.5	14890.9	16311.5	17921.0	18483.8	18912.7	18452.3	14391.1
55°	9991.6	10149.0	10916.3	12486.5	13962.2	15996.7	18401.1	19404.6	20274.3	19577.8	15138.8
57.5°	8039.7	8055.4	8744.1	10365.4	12643.9	15378.9	18645.1	19853.2	21022.0	20463.2	16051.8
60°	6127.2	6064.2	6682.0	8086.9	10424.4	13859.9	18035.2	20081.5	21954.7	21632.0	17149.7
62.5°	3943.1	3844.7	4517.6	5887.1	8142.0	11329.5	16815.2	20085.4	23410.7	23288.7	18987.5
65°	1951.9	1885.0	2463.5	3608.6	5635.3	8665.4	15075.9	20010.7	25189.4	25268.1	20778.0
67.5°	1031.0	1054.6	1239.6	1829.9	3250.5	6123.2	12455.0	19133.1	26098.5	26539.2	21210.9
68°	948.4	956.3	1101.9	1522.9	2821.6	5678.5	11833.2	18877.3	26169.3	26712.4	20970.8
70°	771.3	783.1	834.3	956.3	1526.9	3695.2	9129.7	16705.1	25102.8	25598.7	18983.6
72.5°	613.9	649.3	680.8	732.0	897.2	1940.1	5678.5	13017.7	20738.7	20793.8	14776.8
75°	468.3	495.8	558.8	602.1	700.5	1066.4	2703.5	7937.4	13608.0	12939.0	8704.7
77.5°	362.0	385.7	413.2	472.2	586.3	720.1	826.4	3368.6	5780.9	4757.7	2459.5
80°	216.4	232.2	322.7	369.9	511.6	488.0	326.6	936.6	1172.7	924.8	448.6
82.5°	125.9	137.7	185.0	283.3	358.1	263.7	192.8	291.2	287.3	251.9	149.5
85°	3.9	7.9	102.3	169.2	125.9	70.8	118.1	122.0	102.3	94.4	66.9
87.5°	0.0	3.9	27.5	23.6	27.5	15.7	23.6	31.5	39.4	35.4	27.5
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°	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0	2735.0
2.5°	2762.5	2676.0	2483.1	2337.5	2180.1	2085.7	1991.2	1932.2	1900.7	1881.0	1896.8
5°	2833.4	2652.3	2341.5	2066.0	1885.0	1763.0	1641.0	1578.0	1519.0	1487.5	1507.2
7.5°	2990.8	2719.2	2203.7	1904.7	1692.1	1503.3	1349.8	1227.8	1157.0	1094.0	1105.8
10°	3183.6	2758.6	2207.7	1810.2	1503.3	1204.2	987.7	834.3	747.7	692.6	688.7
12.5°	3380.4	2912.1	2223.4	1715.8	1271.1	905.1	649.3	535.2	484.0	456.5	456.5
15°	3679.4	3049.8	2184.1	1542.6	964.1	590.3	444.7	405.3	385.7	362.0	366.0
17.5°	3939.2	3270.2	2164.4	1282.9	661.1	425.0	369.9	326.6	306.9	283.3	283.3
20°	4289.4	3407.9	2058.1	991.7	456.5	354.2	299.1	259.7	228.2	208.6	212.5
22.5°	4608.2	3514.2	1869.2	676.9	350.2	279.4	220.4	181.0	153.5	129.9	133.8
25°	4954.5	3620.4	1593.8	417.1	247.9	173.2	118.1	86.6	59.0	43.3	43.3
27.5°	5202.4	3651.9	1235.7	247.9	149.5	78.7	27.5	3.9	0.0	0.0	0.0
30°	5454.2	3663.7	853.9	133.8	59.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5741.5	3659.8	535.2	70.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	5961.9	3592.9	255.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6296.4	3494.5	78.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6678.1	3317.4	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7020.5	3136.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7410.0	2912.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8094.8	2817.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8988.1	2742.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9539.0	2522.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9826.3	2294.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10251.3	2184.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10880.9	2191.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11864.7	2302.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12407.8	2191.9	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11947.4	1755.1	74.8	19.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	11549.9	1613.4	74.8	19.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	9546.9	1050.7	70.8	19.7	7.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6953.6	582.4	59.0	15.7	7.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	4045.4	291.2	43.3	15.7	7.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1054.6	145.6	35.4	19.7	11.8	3.9	0.0	0.0	0.0	0.0	0.0
80°	208.6	94.4	31.5	23.6	15.7	7.9	0.0	0.0	0.0	0.0	0.0
82.5°	98.4	66.9	31.5	23.6	19.7	11.8	3.9	0.0	0.0	0.0	0.0
85°	51.2	31.5	31.5	23.6	23.6	15.7	7.9	0.0	0.0	0.0	0.0
87.5°	23.6	11.8	11.8	11.8	11.8	7.9	3.9	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)