

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: P482214

Luminaire Tested: **IFLD-S-SA3C-830-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482214  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-830-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

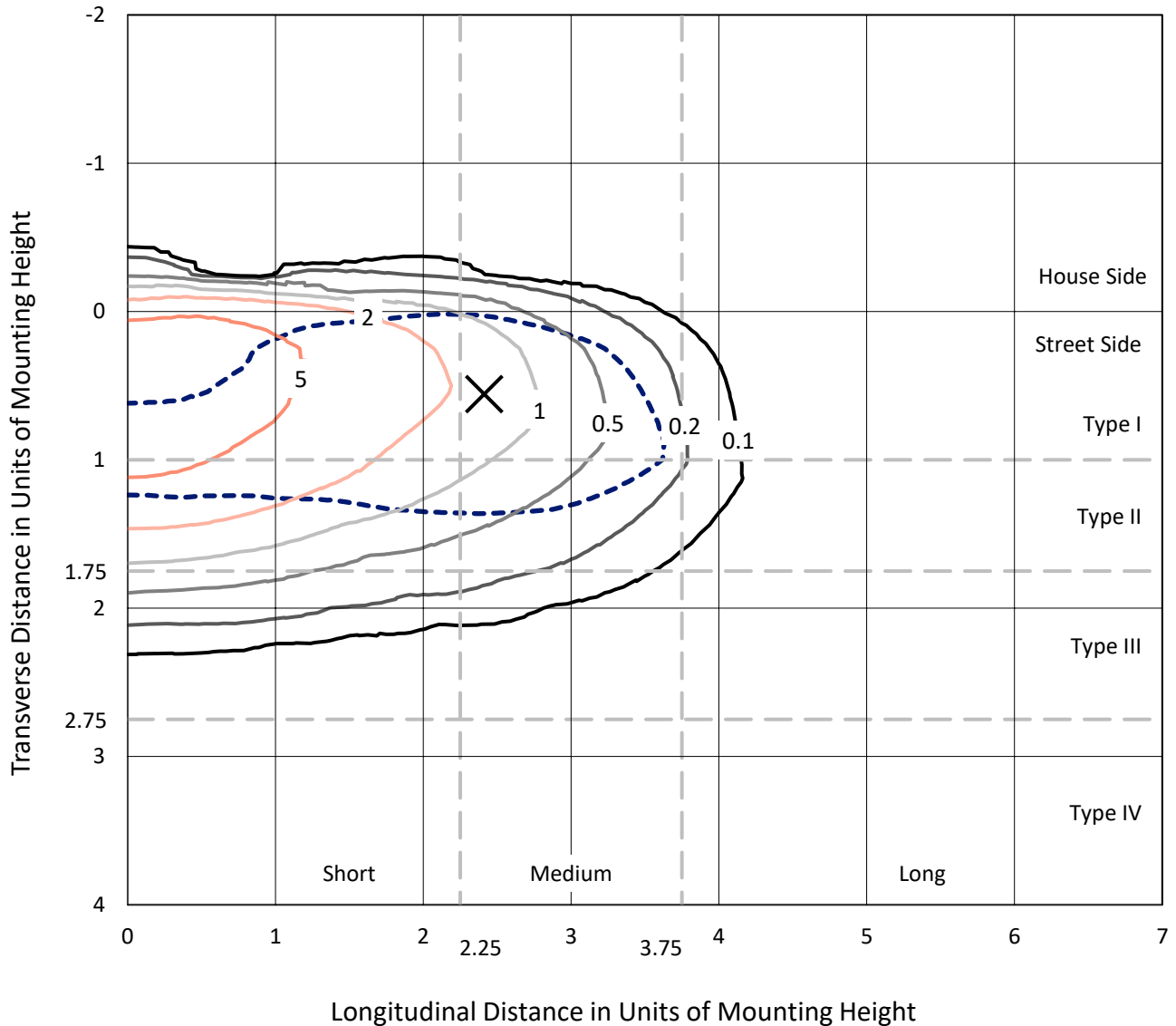
Lumens per Lamp: N/A  
Luminaire Lumens: 13232.8 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8  
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

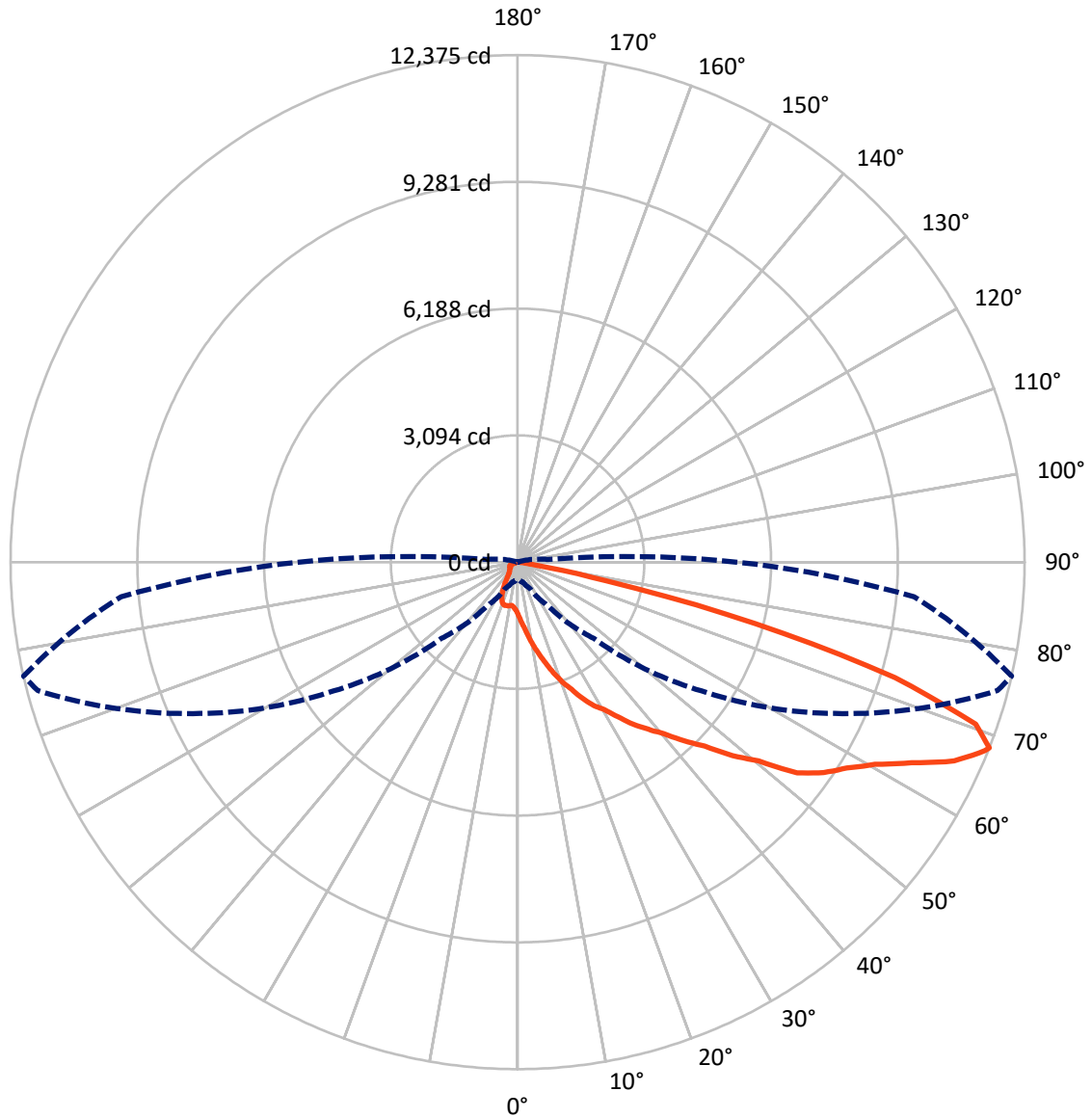
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 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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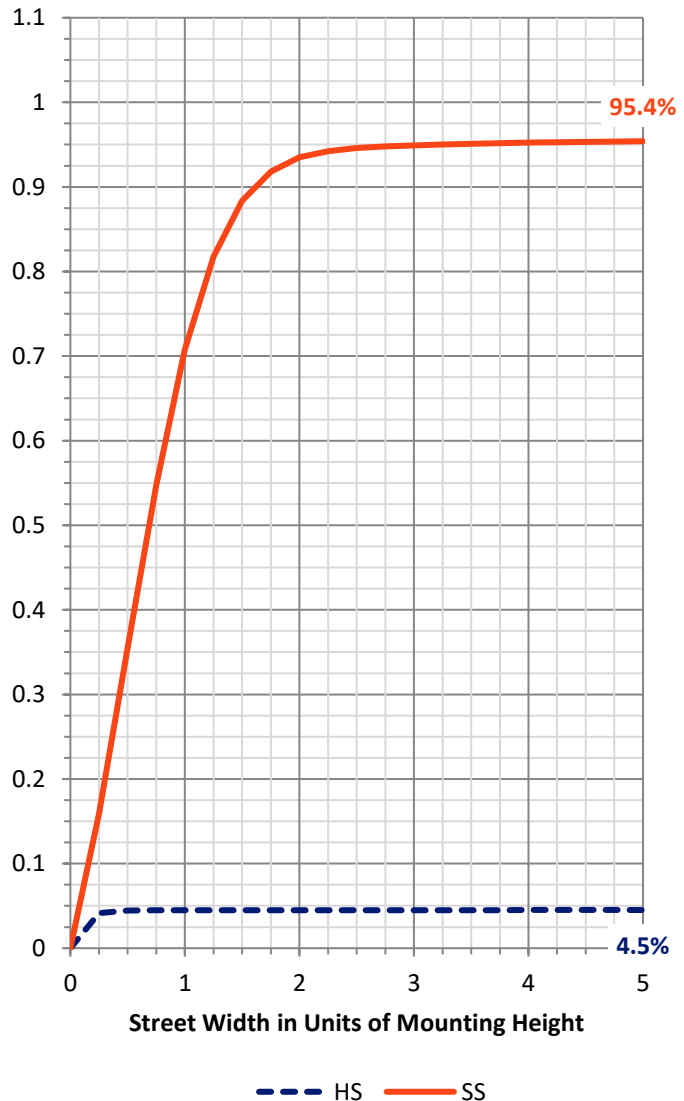
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	600.1	0.0	600.1
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	12632.7	0.0	12632.7
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	13232.8	0.0	13232.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.0	1.1
10°-20°	545.9	4.1
20°-30°	1058.0	8.0
30°-40°	1844.5	13.9
40°-50°	2701.5	20.4
50°-60°	3173.8	24.0
60°-70°	2680.0	20.3
70°-80°	1038.8	7.9
80°-90°	42.2	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°	13232.8	100.0
0°-180°	13232.8	100.0

**Coefficient of Utilization**



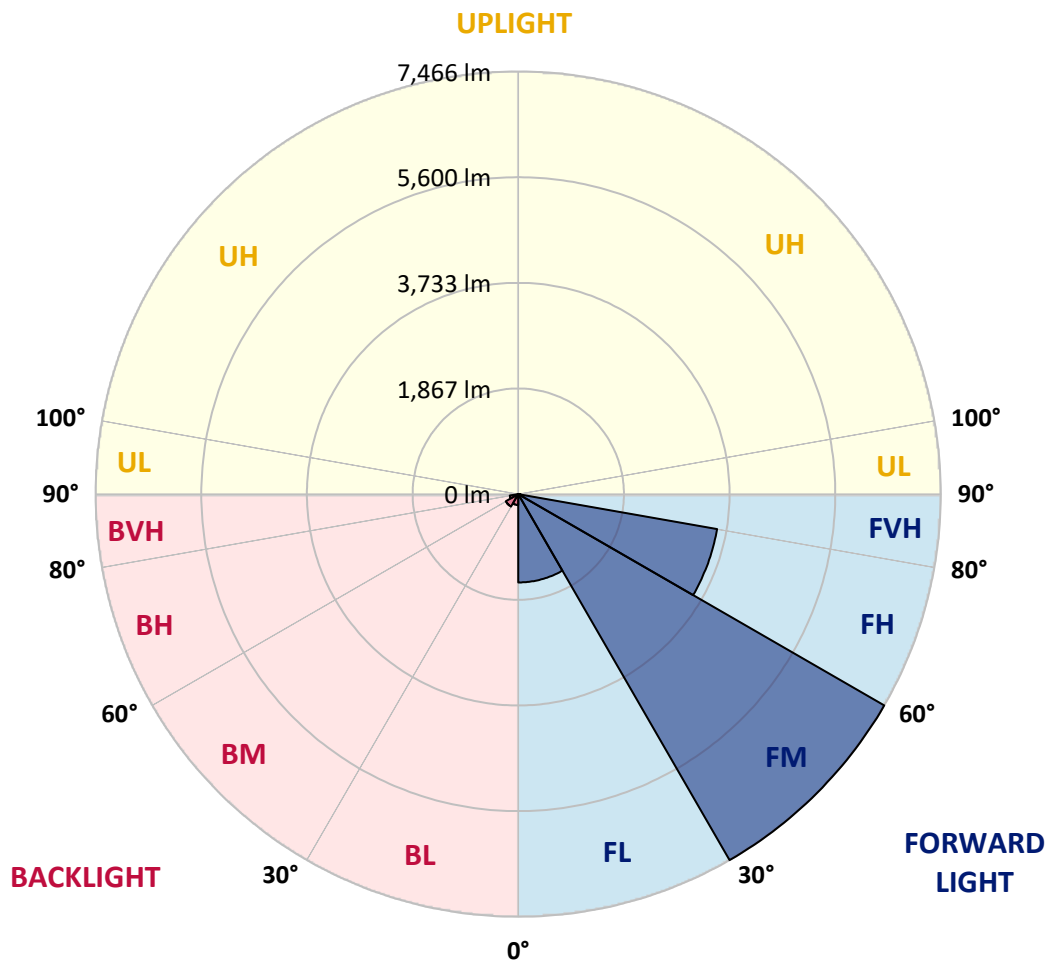
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.3	11.8			
FM (30°-60°)	7466.2	56.4			
FH (60°-80°)	3567.3	27.0			G2/5000
FVH (80°-90°)	39.0	0.3			G1/100
BL (0°-30°)	191.7	1.4	B1/500		
BM (30°-60°)	253.6	1.9	B1/1000		
BH (60°-80°)	151.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	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-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1
2.5°	1925.2	1888.7	1850.5	1839.5	1768.4	1688.2	1613.5	1540.5	1418.4	1420.2	1336.3
5°	2481.3	2435.7	2404.7	2397.4	2286.2	2147.6	2034.6	1828.6	1626.2	1580.6	1427.5
7.5°	2938.9	2924.3	2878.7	2840.4	2758.4	2588.8	2455.7	2160.4	1852.3	1801.2	1538.7
10°	3216.0	3237.8	3257.9	3208.7	3144.9	3022.7	2840.4	2521.4	2109.3	2045.5	1682.7
12.5°	3511.3	3474.8	3487.6	3527.7	3443.9	3416.5	3190.4	2893.3	2410.2	2288.0	1865.0
15°	3587.9	3602.5	3633.5	3750.1	3806.7	3728.3	3533.2	3194.1	2721.9	2552.4	2034.6
17.5°	3638.9	3631.6	3669.9	3844.9	3930.6	4005.4	3883.2	3529.5	2993.5	2842.2	2246.1
20°	3702.7	3662.6	3746.5	3857.7	4056.4	4213.2	4207.7	3866.8	3278.0	3117.5	2455.7
22.5°	3939.7	3908.8	3976.2	3987.1	4125.7	4344.5	4397.3	4142.1	3569.7	3372.8	2681.8
25°	4377.3	4433.8	4353.6	4284.3	4326.2	4470.3	4508.6	4386.4	3863.2	3682.7	2907.9
27.5°	5017.2	5009.9	4851.3	4762.0	4661.7	4643.5	4670.8	4614.3	4094.7	3965.3	3093.8
30°	5704.5	5644.4	5498.5	5283.4	5062.8	4926.0	4887.8	4829.4	4366.4	4178.6	3278.0
32.5°	6251.4	6284.3	6122.0	5841.2	5474.8	5290.7	5106.5	5042.7	4665.3	4499.4	3489.4
35°	6754.6	6710.9	6581.4	6344.4	6016.3	5719.1	5431.0	5294.3	5024.5	4860.4	3722.8
37.5°	7126.5	7181.2	6935.1	6709.0	6382.7	6136.6	5854.0	5555.0	5394.6	5175.8	4007.2
40°	7478.4	7392.7	7226.8	7019.0	6716.3	6528.6	6342.6	5875.9	5788.4	5505.8	4328.1
42.5°	7416.4	7421.9	7330.7	7163.0	6944.2	6836.7	6772.9	6266.0	6145.7	5965.2	4641.6
45°	7163.0	7184.9	7215.9	7133.8	7152.1	7044.5	7215.9	6714.5	6596.0	6404.6	5002.6
47.5°	6884.1	6920.5	6913.2	7062.7	7232.3	7268.7	7697.2	7212.2	7161.2	7055.4	5502.1
50°	6421.0	6435.6	6576.0	6847.6	7079.1	7460.2	8058.2	7755.5	7833.9	7626.1	6096.5
52.5°	5629.8	5682.6	6043.6	6431.9	6898.7	7556.8	8302.4	8563.2	8761.9	8548.6	6667.1
55°	4628.9	4701.8	5057.3	5784.7	6468.4	7410.9	8524.9	8989.8	9392.7	9070.0	7013.5
57.5°	3724.6	3731.9	4051.0	4802.1	5857.7	7124.7	8637.9	9197.6	9739.1	9480.2	7436.5
60°	2838.6	2809.4	3095.6	3746.5	4829.4	6421.0	8355.3	9303.3	10171.1	10021.6	7945.1
62.5°	1826.8	1781.2	2092.9	2727.4	3772.0	5248.7	7790.2	9305.2	10845.7	10789.2	8796.5
65°	904.3	873.3	1141.3	1671.8	2610.7	4014.5	6984.3	9270.5	11669.7	11706.2	9626.0
67.5°	477.7	488.6	574.3	847.7	1505.9	2836.8	5770.1	8864.0	12090.9	12295.1	9826.6
68°	439.4	443.0	510.5	705.5	1307.2	2630.7	5482.1	8745.5	12123.7	12375.3	9715.4
70°	357.3	362.8	386.5	443.0	707.4	1711.9	4229.6	7739.1	11629.6	11859.3	8794.7
72.5°	284.4	300.8	315.4	339.1	415.7	898.8	2630.7	6030.9	9607.8	9633.3	6845.8
75°	217.0	229.7	258.9	278.9	324.5	494.1	1252.5	3677.2	6304.3	5994.4	4032.7
77.5°	167.7	178.7	191.4	218.8	271.6	333.6	382.9	1560.6	2678.2	2204.1	1139.4
80°	100.3	107.6	149.5	171.4	237.0	226.1	151.3	433.9	543.3	428.4	207.8
82.5°	58.3	63.8	85.7	131.3	165.9	122.1	89.3	134.9	133.1	116.7	69.3
85°	1.8	3.6	47.4	78.4	58.3	32.8	54.7	56.5	47.4	43.8	31.0
87.5°	0.0	1.8	12.8	10.9	12.8	7.3	10.9	14.6	18.2	16.4	12.8
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°	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1
2.5°	1279.8	1239.7	1150.4	1082.9	1010.0	966.2	922.5	895.1	880.6	871.4	878.7
5°	1312.6	1228.8	1084.8	957.1	873.3	816.8	760.2	731.1	703.7	689.1	698.3
7.5°	1385.6	1259.8	1020.9	882.4	783.9	696.4	625.3	568.8	536.0	506.8	512.3
10°	1474.9	1278.0	1022.8	838.6	696.4	557.9	457.6	386.5	346.4	320.9	319.0
12.5°	1566.1	1349.1	1030.1	794.9	588.9	419.3	300.8	247.9	224.2	211.5	211.5
15°	1704.6	1412.9	1011.8	714.7	446.7	273.5	206.0	187.8	178.7	167.7	169.5
17.5°	1824.9	1515.0	1002.7	594.3	306.3	196.9	171.4	151.3	142.2	131.3	131.3
20°	1987.2	1578.8	953.5	459.4	211.5	164.1	138.6	120.3	105.7	96.6	98.4
22.5°	2134.9	1628.0	866.0	313.6	162.3	129.4	102.1	83.9	71.1	60.2	62.0
25°	2295.3	1677.3	738.4	193.2	114.9	80.2	54.7	40.1	27.3	20.1	20.1
27.5°	2410.2	1691.8	572.5	114.9	69.3	36.5	12.8	1.8	0.0	0.0	0.0
30°	2526.8	1697.3	395.6	62.0	27.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2659.9	1695.5	247.9	32.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	2762.0	1664.5	118.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2917.0	1618.9	36.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3093.8	1536.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3252.4	1453.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3432.9	1349.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3750.1	1305.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4164.0	1270.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4419.2	1168.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4552.3	1062.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4749.2	1011.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5040.9	1015.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5496.7	1066.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5748.3	1015.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5535.0	813.1	34.6	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	5350.8	747.5	34.6	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	4422.9	486.8	32.8	9.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3221.4	269.8	27.3	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	1874.2	134.9	20.1	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	488.6	67.5	16.4	9.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
80°	96.6	43.8	14.6	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	45.6	31.0	14.6	10.9	9.1	5.5	1.8	0.0	0.0	0.0	0.0
85°	23.7	14.6	14.6	10.9	10.9	7.3	3.6	0.0	0.0	0.0	0.0
87.5°	10.9	5.5	5.5	5.5	5.5	3.6	1.8	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)