

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: P477026

Luminaire Tested: **IFLD-S-SA3B-750-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477026  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-750-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

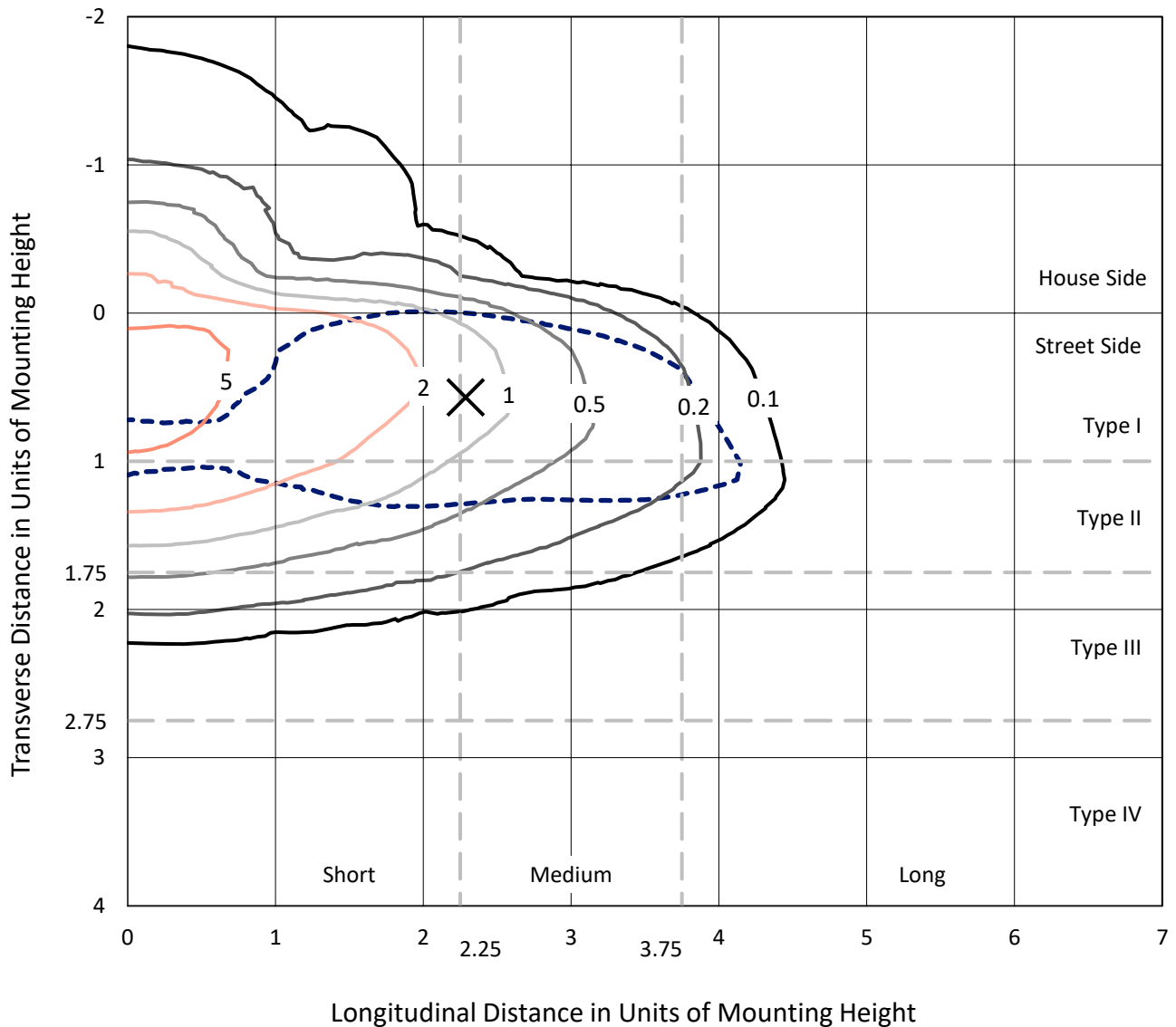
Lumens per Lamp: N/A  
Luminaire Lumens: 17503.4 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4  
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

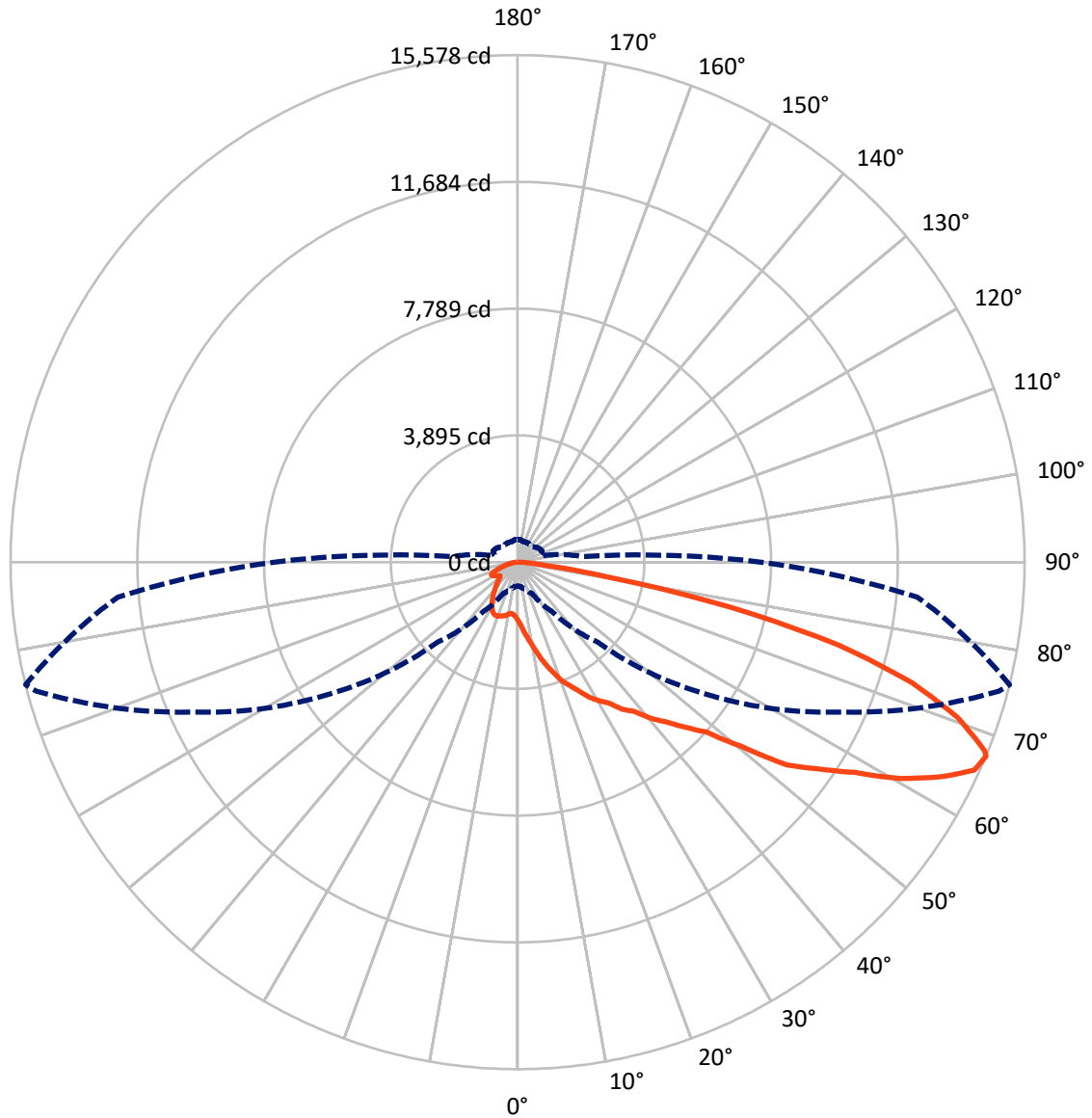
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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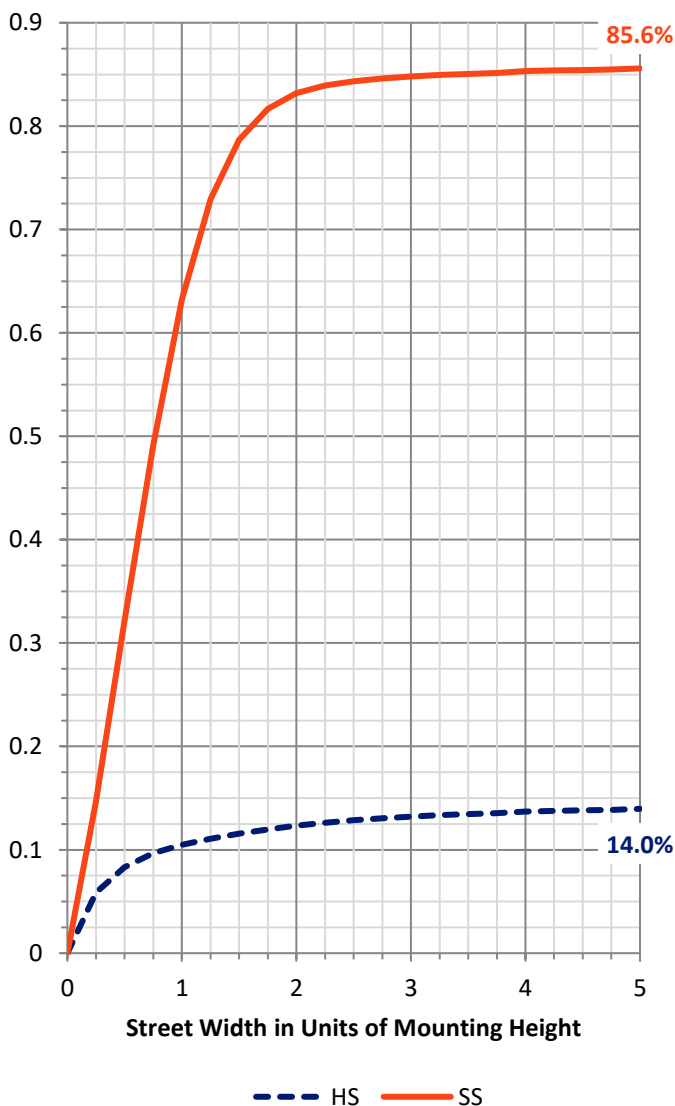
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2490.1	0.0	2490.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	15013.3	0.0	15013.3
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	17503.4	0.0	17503.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.5	1.2
10°-20°	778.2	4.4
20°-30°	1446.7	8.3
30°-40°	2293.4	13.1
40°-50°	3172.0	18.1
50°-60°	3901.7	22.3
60°-70°	3630.7	20.7
70°-80°	1821.9	10.4
80°-90°	251.2	1.4
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°	17503.4	100.0
0°-180°	17503.4	100.0

**Coefficient of Utilization**



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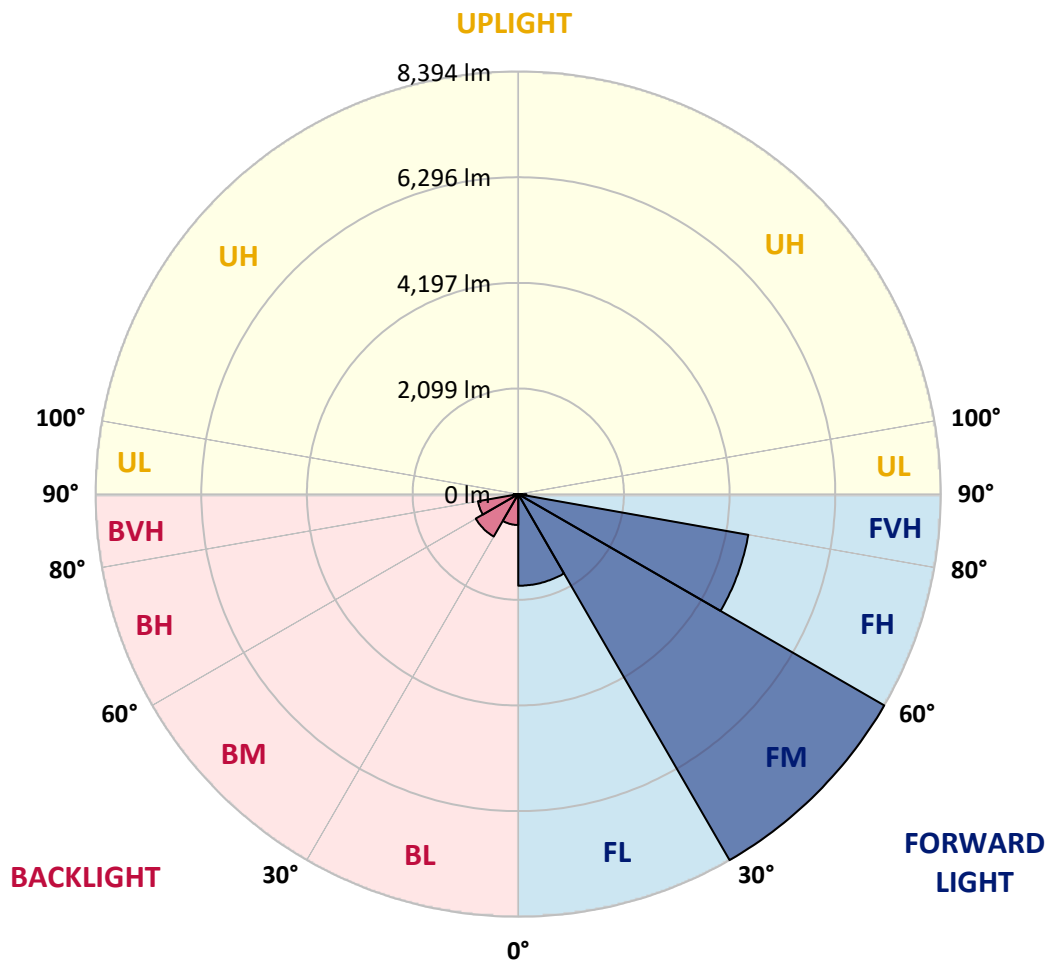
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1819.2	10.4			
FM (30°-60°)	8394.0	48.0			
FH (60°-80°)	4640.0	26.5			G2/5000
FVH (80°-90°)	160.1	0.9			G2/225
BL (0°-30°)	613.2	3.5	B2/1000		
BM (30°-60°)	973.1	5.6	B1/1000		
BH (60°-80°)	812.6	4.6	B2/1000		G2/1000
BVH (80°-90°)	91.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2
2.5°	2485.3	2455.4	2425.5	2361.7	2339.7	2279.9	2170.2	2048.5	1948.8	1934.8	1865.0
5°	3083.7	3039.9	3029.9	2994.0	2880.3	2764.6	2585.1	2389.6	2146.2	2164.2	1924.8
7.5°	3532.5	3506.6	3452.7	3418.8	3351.0	3197.4	3011.9	2752.6	2443.5	2383.6	2058.5
10°	3871.6	3835.7	3833.7	3803.8	3767.9	3610.3	3468.7	3119.6	2722.7	2640.9	2222.0
12.5°	4043.2	4037.2	4142.9	4142.9	4128.9	4063.1	3819.8	3500.6	2988.0	2960.1	2411.5
15°	4228.7	4178.8	4270.6	4340.4	4376.3	4410.2	4208.7	3871.6	3327.1	3273.2	2615.0
17.5°	4228.7	4224.7	4316.4	4432.1	4619.6	4663.5	4553.8	4212.7	3608.3	3568.4	2838.4
20°	4156.9	4214.7	4278.5	4434.1	4637.6	4815.1	4847.0	4561.8	3919.5	3887.6	3091.7
22.5°	4492.0	4436.1	4501.9	4561.8	4719.4	4988.6	5076.4	4869.0	4246.6	4124.9	3321.1
25°	5054.5	5016.6	4968.7	4880.9	4946.7	5064.4	5198.1	5096.3	4525.9	4390.2	3542.5
27.5°	5603.0	5605.0	5501.3	5309.8	5168.2	5192.1	5349.7	5295.8	4761.2	4701.4	3694.1
30°	6382.9	6335.0	6219.3	5960.0	5682.8	5455.4	5429.5	5481.3	5060.4	4944.8	3911.5
32.5°	6967.3	6977.3	6813.7	6440.7	6061.8	5876.3	5648.9	5670.8	5249.9	5164.2	4085.1
35°	7440.1	7428.1	7312.4	7003.2	6554.4	6331.0	6023.9	5898.2	5690.8	5555.1	4350.3
37.5°	7950.7	7853.0	7665.5	7316.4	7029.2	6720.0	6420.8	6137.6	5984.0	5820.4	4577.7
40°	8156.1	8156.1	7904.8	7745.2	7404.2	7170.8	6977.3	6452.7	6341.0	6309.1	4869.0
42.5°	8010.5	8100.3	7996.6	7815.1	7675.4	7380.2	7328.4	6779.8	6781.8	6718.0	5218.0
45°	7996.6	7872.9	7787.1	7833.0	7767.2	7751.2	7882.9	7232.6	7244.6	7236.6	5686.8
47.5°	7595.6	7539.8	7667.5	7743.3	7797.1	8044.4	8423.4	7773.2	7858.9	7799.1	6227.3
50°	7196.7	7186.7	7266.5	7541.8	7775.2	8182.1	8938.0	8606.9	8888.2	8884.2	7206.7
52.5°	6103.6	6209.4	6522.5	7105.0	7681.4	8369.6	9327.0	9672.1	10208.6	10354.3	8018.5
55°	5058.4	5002.6	5465.4	6311.1	7272.5	8443.4	9761.8	10312.4	11102.3	11208.0	8852.3
57.5°	3935.5	4039.2	4404.2	5216.0	6426.8	8078.4	10081.0	10944.7	12111.5	12193.3	9819.7
60°	2936.1	2950.1	3351.0	4005.3	5301.8	7254.6	10184.7	11592.9	13268.4	13501.8	10833.0
62.5°	1847.1	1930.8	2236.0	2880.3	3991.3	6101.7	9720.0	11985.9	14481.2	14543.0	11854.2
65°	995.3	1049.2	1278.6	1683.5	2788.5	4615.6	8487.3	11750.5	15051.7	15418.7	12309.0
67°	736.0	746.0	851.7	1075.1	1865.0	3474.7	7077.0	10898.8	15311.0	15578.3	12327.0
67.5°	690.2	704.1	787.9	965.4	1653.6	3199.4	6708.0	10595.6	15195.3	15482.5	12187.3
70°	590.4	594.4	614.4	664.2	927.5	1924.8	4567.8	8682.7	14084.3	14359.5	11208.0
72.5°	524.6	528.6	536.6	546.5	628.3	1113.0	2778.6	6682.1	12241.2	12680.0	9670.1
75°	460.8	474.7	478.7	470.7	534.6	724.1	1478.0	4910.8	9985.2	10198.7	7519.8
77.5°	391.0	396.9	404.9	412.9	476.7	540.6	710.1	3315.1	6853.6	6724.0	4067.1
80°	329.1	331.1	337.1	343.1	412.9	412.9	402.9	1791.2	2994.0	2862.3	1374.3
82.5°	235.4	249.3	263.3	279.3	343.1	277.3	263.3	797.9	947.5	901.6	464.8
85°	91.8	111.7	173.5	191.5	217.4	149.6	175.5	345.1	394.9	391.0	173.5
87.5°	16.0	18.0	47.9	73.8	79.8	51.9	83.8	123.7	147.6	159.6	63.8
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°	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2
2.5°	1807.2	1745.3	1671.5	1597.7	1549.8	1474.1	1468.1	1422.2	1416.2	1400.2	1408.2
5°	1821.1	1747.3	1597.7	1480.0	1426.2	1382.3	1392.3	1372.3	1366.3	1356.4	1340.4
7.5°	1930.8	1785.2	1561.8	1460.1	1420.2	1400.2	1400.2	1376.3	1358.4	1370.3	1382.3
10°	2002.6	1803.2	1589.7	1488.0	1456.1	1412.2	1428.2	1398.3	1408.2	1384.3	1384.3
12.5°	2118.3	1904.9	1647.6	1529.9	1478.0	1438.1	1454.1	1420.2	1412.2	1414.2	1408.2
15°	2273.9	1972.7	1673.5	1553.8	1517.9	1468.1	1456.1	1426.2	1396.3	1386.3	1398.3
17.5°	2419.5	2056.5	1691.5	1567.8	1510.0	1454.1	1440.1	1402.2	1392.3	1362.3	1338.4
20°	2593.1	2156.2	1715.4	1579.8	1480.0	1424.2	1388.3	1350.4	1316.5	1298.5	1306.5
22.5°	2708.7	2208.1	1727.4	1555.8	1436.2	1384.3	1308.5	1282.6	1234.7	1214.7	1198.8
25°	2898.2	2271.9	1697.5	1490.0	1358.4	1274.6	1206.8	1170.9	1137.0	1111.0	1103.0
27.5°	2946.1	2319.8	1627.6	1378.3	1234.7	1146.9	1089.1	1045.2	1023.3	983.4	975.4
30°	3085.7	2271.9	1523.9	1242.7	1117.0	1027.2	969.4	937.5	885.6	875.7	853.7
32.5°	3175.5	2285.9	1392.3	1111.0	981.4	901.6	863.7	831.8	817.8	769.9	758.0
35°	3325.1	2238.0	1258.6	989.3	869.7	807.8	775.9	765.9	720.1	698.1	678.2
37.5°	3420.8	2210.1	1125.0	851.7	748.0	722.1	732.0	690.2	634.3	592.4	578.4
40°	3588.4	2200.1	973.4	738.0	664.2	658.2	690.2	610.4	508.6	472.7	452.8
42.5°	3829.7	2132.3	855.7	636.3	598.4	624.3	630.3	508.6	450.8	420.9	406.9
45°	4061.1	2146.2	740.0	526.6	520.6	558.5	544.5	430.8	396.9	375.0	387.0
47.5°	4505.9	2216.1	626.3	438.8	468.7	504.6	422.9	385.0	353.1	337.1	339.1
50°	5194.1	2283.9	526.6	400.9	442.8	456.8	363.0	349.1	347.1	315.2	313.2
52.5°	5607.0	2257.9	508.6	448.8	474.7	456.8	394.9	385.0	369.0	355.0	339.1
55°	6263.2	2333.7	546.5	524.6	538.6	438.8	442.8	438.8	426.9	391.0	400.9
57.5°	6785.8	2383.6	596.4	586.4	578.4	456.8	462.8	464.8	456.8	440.8	454.8
60°	7503.9	2483.3	648.3	650.3	652.3	496.7	506.6	518.6	516.6	510.6	514.6
62.5°	7944.7	2437.5	706.1	738.0	728.0	578.4	576.5	584.4	584.4	594.4	600.4
65°	7878.9	2267.9	736.0	815.8	764.0	638.3	638.3	642.3	644.3	664.2	666.2
67°	7483.9	1964.7	720.1	827.8	764.0	662.2	662.2	666.2	652.3	704.1	688.2
67.5°	7300.4	1875.0	706.1	817.8	758.0	660.2	660.2	662.2	650.3	700.1	684.2
70°	6349.0	1392.3	608.4	724.1	702.1	642.3	642.3	630.3	620.3	686.2	672.2
72.5°	5419.5	1011.3	488.7	616.3	634.3	618.3	622.3	592.4	564.5	610.4	598.4
75°	4150.9	744.0	381.0	474.7	536.6	578.4	604.4	528.6	492.7	504.6	482.7
77.5°	2315.8	484.7	301.2	351.1	408.9	538.6	580.4	476.7	402.9	389.0	389.0
80°	785.9	283.2	221.4	261.3	281.2	476.7	542.5	387.0	317.2	303.2	293.2
82.5°	297.2	173.5	151.6	179.5	179.5	377.0	442.8	297.2	239.4	309.2	315.2
85°	135.6	103.7	99.7	103.7	103.7	231.4	313.2	193.5	215.4	185.5	163.6
87.5°	53.9	49.9	45.9	43.9	35.9	39.9	107.7	51.9	97.7	25.9	23.9
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)