

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: P478289

Luminaire Tested: **IFLD-S-SA6B-827-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478289  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-827-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

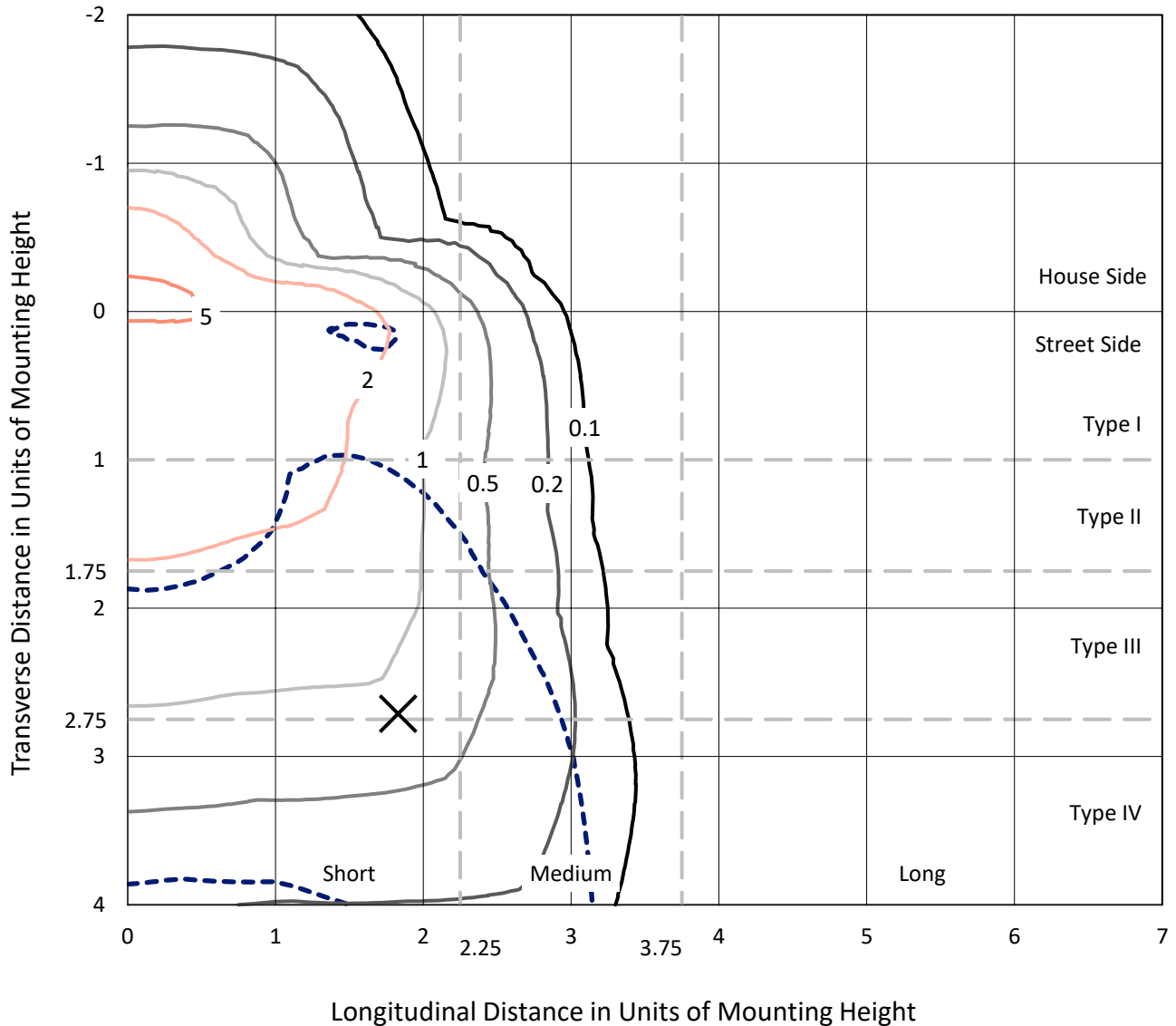
Lumens per Lamp: N/A  
Luminaire Lumens: 25138.4 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9  
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

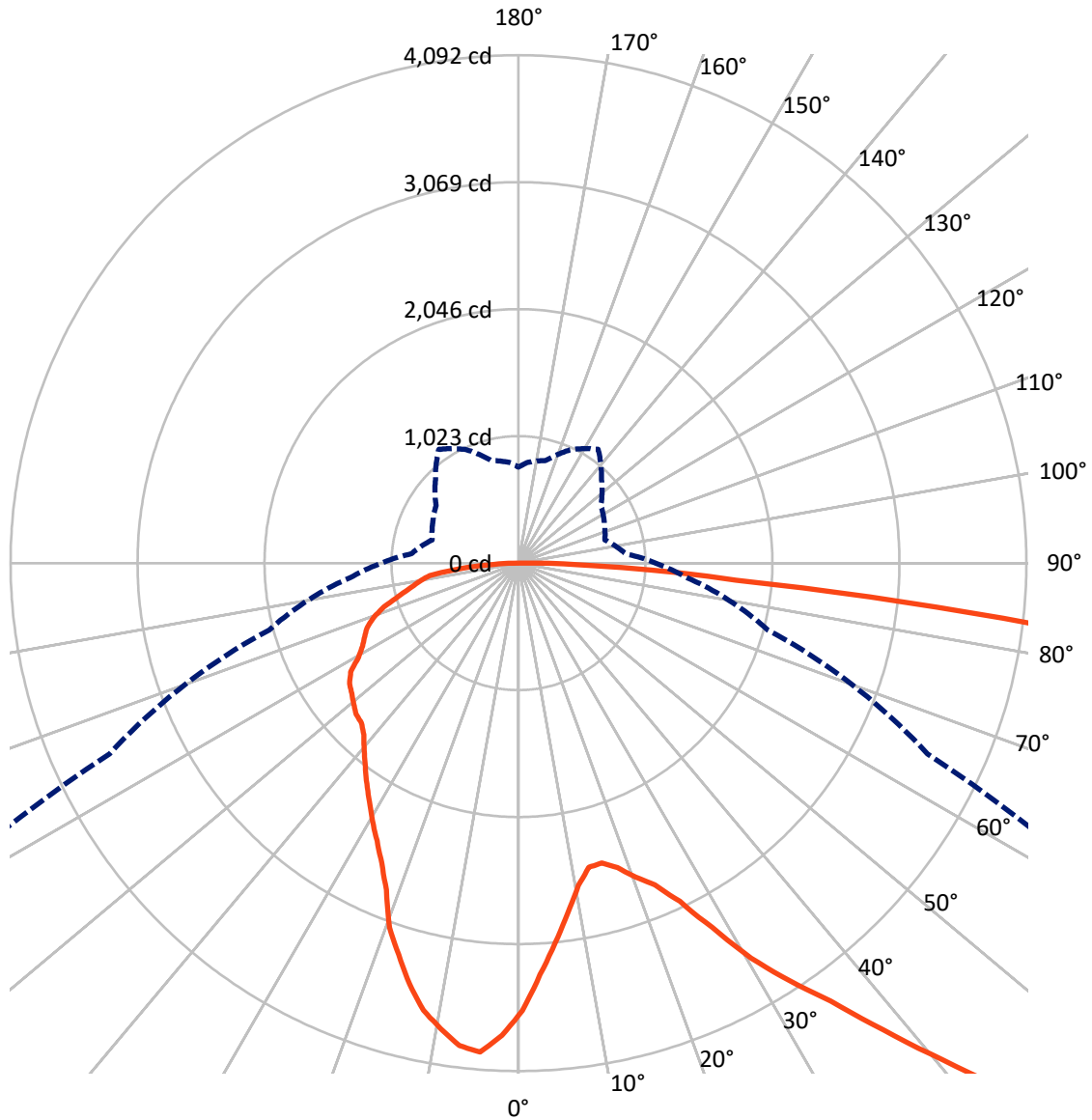
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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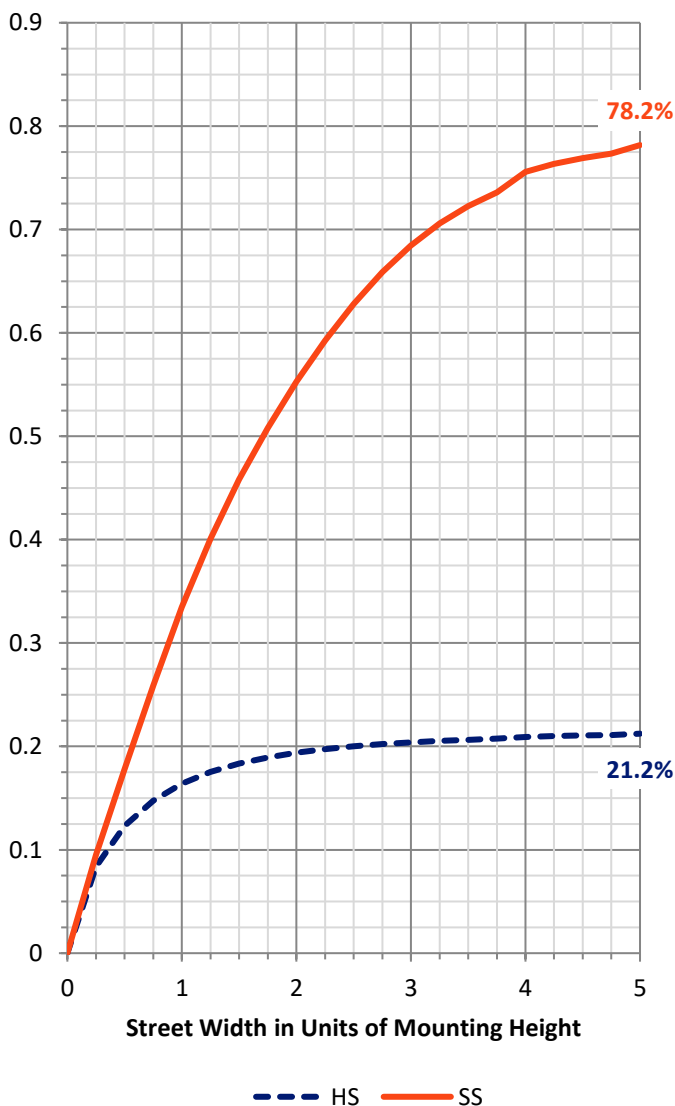
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5430.2	0.0	5430.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	19708.2	0.0	19708.2
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	25138.4	0.0	25138.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.6	1.3
10°-20°	930.9	3.7
20°-30°	1532.1	6.1
30°-40°	2291.3	9.1
40°-50°	3396.7	13.5
50°-60°	4895.0	19.5
60°-70°	6246.7	24.8
70°-80°	4861.0	19.3
80°-90°	652.1	2.6
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°	25138.4	100.0
0°-180°	25138.4	100.0

**Coefficient of Utilization**



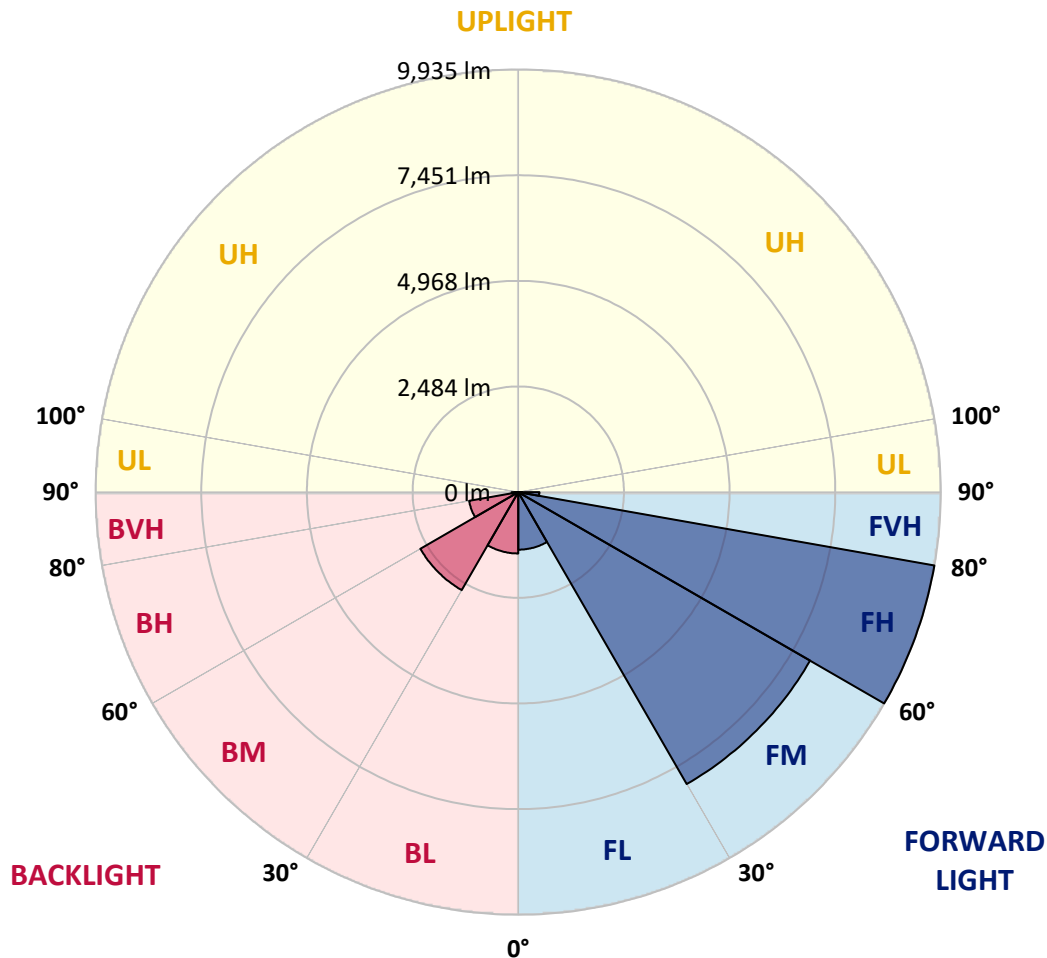
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.9	5.4			
FM (30°-60°)	7923.8	31.5			
FH (60°-80°)	9935.1	39.5			G4/12000
FVH (80°-90°)	496.4	2.0			G3/500
BL (0°-30°)	1442.8	5.7	B3/2500		
BM (30°-60°)	2659.2	10.6	B3/5000		
BH (60°-80°)	1172.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	155.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0
2.5°	3229.2	3239.9	3274.4	3282.4	3319.6	3298.3	3343.5	3423.2	3468.4	3534.9	3614.6
5°	2974.1	2928.9	2950.2	3032.6	3075.1	3085.7	3133.5	3269.1	3354.1	3452.5	3601.3
7.5°	2673.7	2665.8	2708.3	2761.5	2846.5	2854.5	2960.8	3080.4	3255.8	3473.7	3649.2
10°	2469.1	2503.6	2527.6	2583.4	2641.9	2641.9	2777.4	2984.7	3184.0	3394.0	3659.8
12.5°	2458.5	2437.2	2442.5	2471.8	2514.3	2567.4	2695.0	2881.1	3133.5	3378.1	3705.0
15°	2493.0	2501.0	2453.2	2490.4	2506.3	2524.9	2665.8	2875.7	3101.7	3433.9	3782.1
17.5°	2676.4	2631.2	2556.8	2522.3	2578.1	2578.1	2673.7	2838.5	3107.0	3463.1	3893.7
20°	2819.9	2819.9	2697.7	2660.5	2700.3	2692.4	2758.8	2881.1	3133.5	3521.6	4018.6
22.5°	3061.8	3096.3	2894.3	2817.3	2814.6	2835.9	2894.3	2998.0	3208.0	3604.0	4138.2
25°	3410.0	3417.9	3184.0	3104.3	3019.3	3053.8	3064.4	3168.1	3274.4	3699.7	4273.7
27.5°	3798.0	3792.7	3577.4	3378.1	3322.3	3330.2	3271.8	3340.9	3372.7	3728.9	4467.8
30°	4228.6	4180.7	4018.6	3736.9	3691.7	3641.2	3513.6	3511.0	3577.4	3893.7	4736.2
32.5°	4510.3	4449.2	4337.5	4135.5	4010.6	4015.9	3813.9	3811.3	3752.8	4074.4	4970.1
35°	4786.7	4693.7	4664.4	4457.1	4332.2	4345.5	4183.4	4162.1	4055.8	4348.2	5355.5
37.5°	5118.9	5036.5	5081.7	4924.9	4770.8	4707.0	4632.5	4606.0	4467.8	4733.5	5881.7
40°	5485.7	5459.1	5429.9	5352.8	5259.8	5265.1	5185.4	5158.8	4954.1	5198.7	6386.7
42.5°	5980.1	5879.1	5727.6	5778.1	5825.9	5876.4	5849.8	5780.7	5568.1	5671.7	6950.1
45°	6439.9	6307.0	6027.9	6043.8	6240.5	6280.4	6602.0	6594.0	6166.1	6272.4	7590.7
47.5°	6750.8	6689.7	6522.2	6503.6	6785.4	6782.7	7362.1	7362.1	6796.0	6870.4	8279.0
50°	7213.3	7053.8	6982.0	7075.1	7218.6	7316.9	8138.2	8188.7	7415.3	7495.0	9180.0
52.5°	7755.5	7556.1	7375.4	7614.6	7869.7	7933.5	8906.3	8885.0	7891.0	8220.6	10235.2
55°	8204.6	8103.6	7978.7	8116.9	8534.2	8613.9	9677.1	9480.4	8366.8	8821.2	10742.8
57.5°	8728.2	8789.3	8815.9	8781.4	9278.4	9403.3	10556.8	9993.3	8776.1	9225.2	11040.5
60°	9517.6	9554.8	9589.3	9671.7	10198.0	10373.4	11253.1	10636.5	9033.9	9459.1	11064.4
62.5°	10718.9	10575.4	10652.5	10936.9	11359.4	11558.8	12279.0	11088.3	9230.5	9600.0	10283.0
65°	12093.0	11899.0	11819.2	12186.0	13281.0	13121.6	13560.1	11425.9	8946.2	9073.7	8720.2
67.5°	13485.7	13506.9	13302.3	14038.5	15380.7	15380.7	14750.8	11588.0	8175.4	7354.1	6115.6
70°	14591.3	14657.8	14769.4	16196.6	18322.9	18644.5	16225.9	10923.6	6604.6	4895.7	3343.5
72.5°	14575.4	14376.0	14947.5	17576.0	20996.6	20728.2	16534.2	8637.9	4122.2	2397.3	1533.6
73°	14248.5	14081.0	14705.6	17562.7	21105.6	20853.1	16308.3	7962.8	3635.9	2078.4	1363.5
75°	11635.9	11332.9	12396.0	15906.9	19526.9	19720.9	13855.1	5193.3	1993.4	1281.1	959.5
77.5°	5305.0	5437.9	6822.6	10671.1	15048.5	15277.0	9108.3	2245.8	1092.4	898.3	707.0
80°	1703.7	1788.7	2655.1	5305.0	9432.5	9844.5	4210.0	1020.6	778.7	688.4	528.9
82.5°	651.2	648.5	1113.6	2206.0	4470.4	4733.5	1538.9	621.9	579.4	507.6	374.7
85°	228.6	239.2	419.9	871.8	1759.5	1841.9	534.2	345.5	401.3	340.2	215.3
87.5°	79.7	82.4	148.8	316.3	606.0	640.5	148.8	138.2	199.3	196.7	109.0
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°	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0	3604.0
2.5°	3641.2	3665.1	3673.1	3768.8	3768.8	3768.8	3806.0	3806.0	3795.3	3768.8	3832.5
5°	3657.1	3699.7	3782.1	3864.4	3885.7	3904.3	3954.8	3912.3	3928.2	3901.7	3925.6
7.5°	3702.3	3760.8	3914.9	3965.4	3930.9	3970.8	3917.6	3888.4	3859.1	3869.8	3832.5
10°	3779.4	3853.8	3925.6	4018.6	3952.1	3912.3	3803.3	3776.7	3683.7	3651.8	3681.1
12.5°	3875.1	3965.4	4087.7	4053.1	3925.6	3811.3	3694.3	3582.7	3526.9	3447.2	3468.4
15°	3970.8	4074.4	4093.0	4034.5	3875.1	3731.6	3518.9	3362.1	3306.3	3234.5	3271.8
17.5°	4074.4	4172.7	4140.9	3989.4	3774.1	3556.1	3314.3	3160.1	3043.2	2998.0	2998.0
20°	4228.6	4276.4	4225.9	3914.9	3651.8	3364.8	3130.9	2955.5	2838.5	2819.9	2790.7
22.5°	4348.2	4425.2	4199.3	3806.0	3473.7	3114.9	2846.5	2780.1	2745.5	2716.3	2679.1
25°	4502.3	4499.7	4151.5	3705.0	3168.1	2817.3	2655.1	2649.8	2633.9	2623.2	2673.7
27.5°	4648.5	4587.4	4095.7	3455.1	2851.8	2591.4	2503.6	2562.1	2586.0	2570.1	2591.4
30°	4879.7	4778.7	4015.9	3189.4	2572.8	2362.8	2378.7	2458.5	2498.3	2522.3	2490.4
32.5°	5124.2	4970.1	3851.2	2912.9	2325.6	2219.3	2256.5	2338.9	2386.7	2413.3	2442.5
35°	5477.7	5118.9	3683.7	2551.5	2147.5	2131.6	2152.8	2198.0	2267.1	2285.7	2293.7
37.5°	5913.6	5344.8	3457.8	2261.8	2009.3	2027.9	2049.2	2065.1	2067.8	2102.3	2089.0
40°	6349.5	5536.2	3128.2	1985.4	1865.8	1966.8	1956.1	1926.9	1903.0	1871.1	1863.1
42.5°	6732.2	5703.6	2761.5	1751.5	1738.2	1903.0	1868.4	1794.0	1738.2	1714.3	1674.4
45°	7162.8	5940.2	2392.0	1605.3	1639.9	1825.9	1815.3	1701.0	1629.2	1544.2	1533.6
47.5°	7720.9	6187.4	2038.5	1453.8	1546.8	1796.7	1802.0	1655.8	1552.2	1437.9	1421.9
50°	8435.9	6543.5	1770.1	1390.0	1491.0	1754.1	1762.1	1594.7	1459.1	1342.2	1331.6
52.5°	9121.6	6907.6	1546.8	1291.7	1453.8	1703.7	1722.3	1538.9	1382.1	1235.9	1243.9
55°	9467.1	6774.7	1355.5	1219.9	1368.8	1621.3	1690.4	1499.0	1265.1	1164.1	1161.5
57.5°	9544.2	6447.8	1204.0	1145.5	1297.0	1533.6	1637.2	1379.4	1212.0	1126.9	1116.3
60°	9291.7	5876.4	1084.4	1065.8	1206.6	1443.2	1514.9	1315.6	1158.8	1089.7	1073.8
62.5°	8669.7	5283.7	1002.0	1028.6	1129.6	1344.8	1437.9	1270.4	1108.3	1060.5	1025.9
65°	7109.6	4345.5	935.5	956.8	1049.8	1249.2	1390.0	1219.9	1063.1	1017.9	1015.3
67.5°	4924.9	2995.3	882.4	922.3	986.0	1180.1	1342.2	1164.1	1004.6	988.7	967.4
70°	2522.3	1597.3	813.3	845.2	916.9	1092.4	1257.1	1105.6	943.5	940.9	914.3
72.5°	1278.4	935.5	733.6	781.4	831.9	978.1	1150.8	1028.6	866.4	837.2	794.7
73°	1105.6	866.4	720.3	762.8	810.6	946.2	1118.9	1010.0	855.8	813.3	773.4
75°	805.3	683.1	645.8	688.4	725.6	853.2	1012.6	924.9	786.7	741.5	704.3
77.5°	603.3	526.2	536.9	584.7	616.6	736.2	901.0	837.2	712.3	651.2	635.2
80°	443.9	401.3	443.9	489.0	513.0	648.5	821.3	725.6	600.7	531.6	518.3
82.5°	316.3	292.4	342.9	372.1	382.7	536.9	738.9	579.4	454.5	364.1	334.9
85°	180.7	178.1	231.2	228.6	236.5	313.6	486.4	385.4	292.4	223.3	217.9
87.5°	79.7	87.7	116.9	93.0	98.3	148.8	207.3	143.5	119.6	66.4	50.5
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)