

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: P478024

Luminaire Tested: **IFLD-M-SA4E-722-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478024  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-722-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

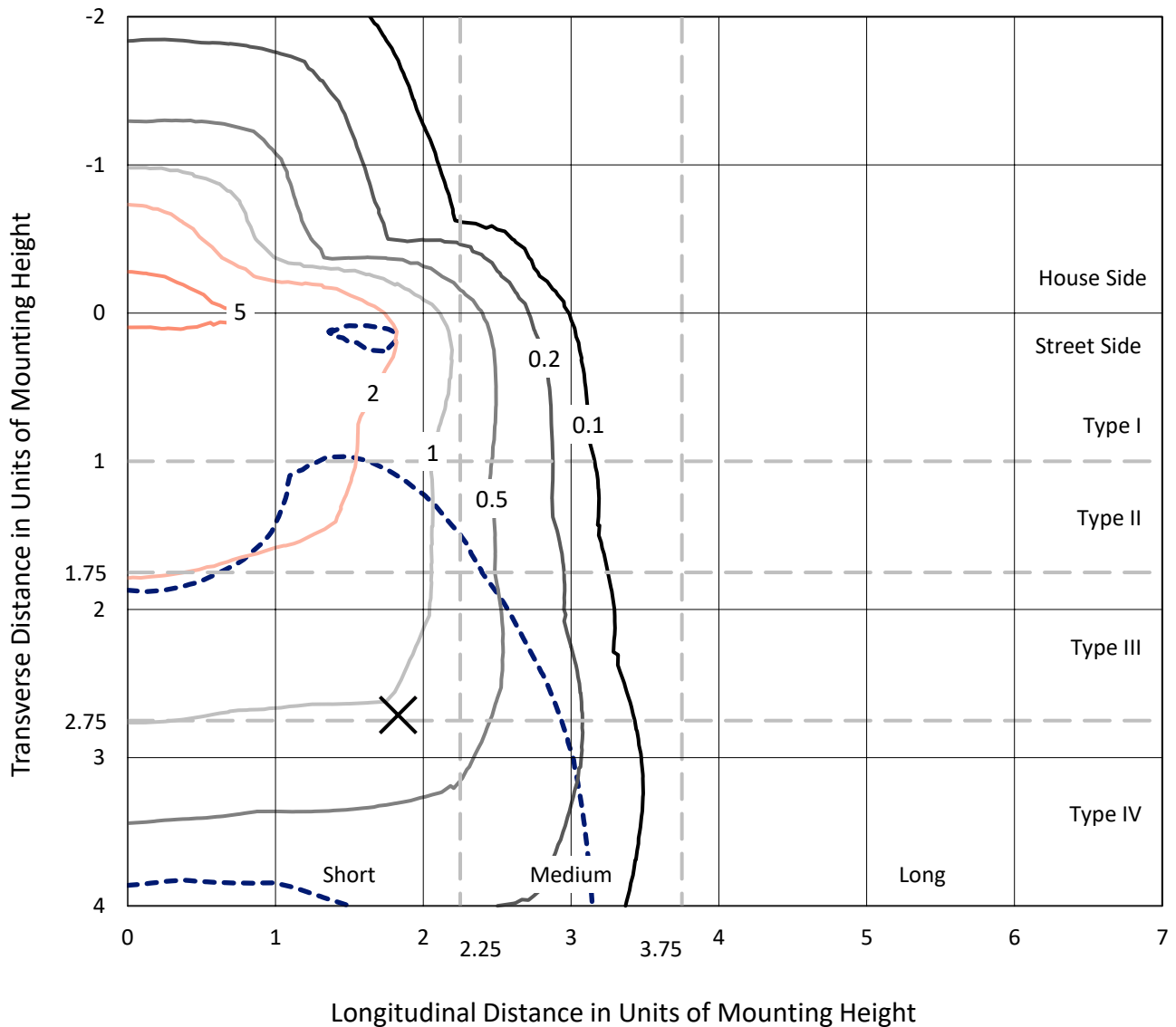
Lumens per Lamp: N/A  
Luminaire Lumens: 27321.4 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8  
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

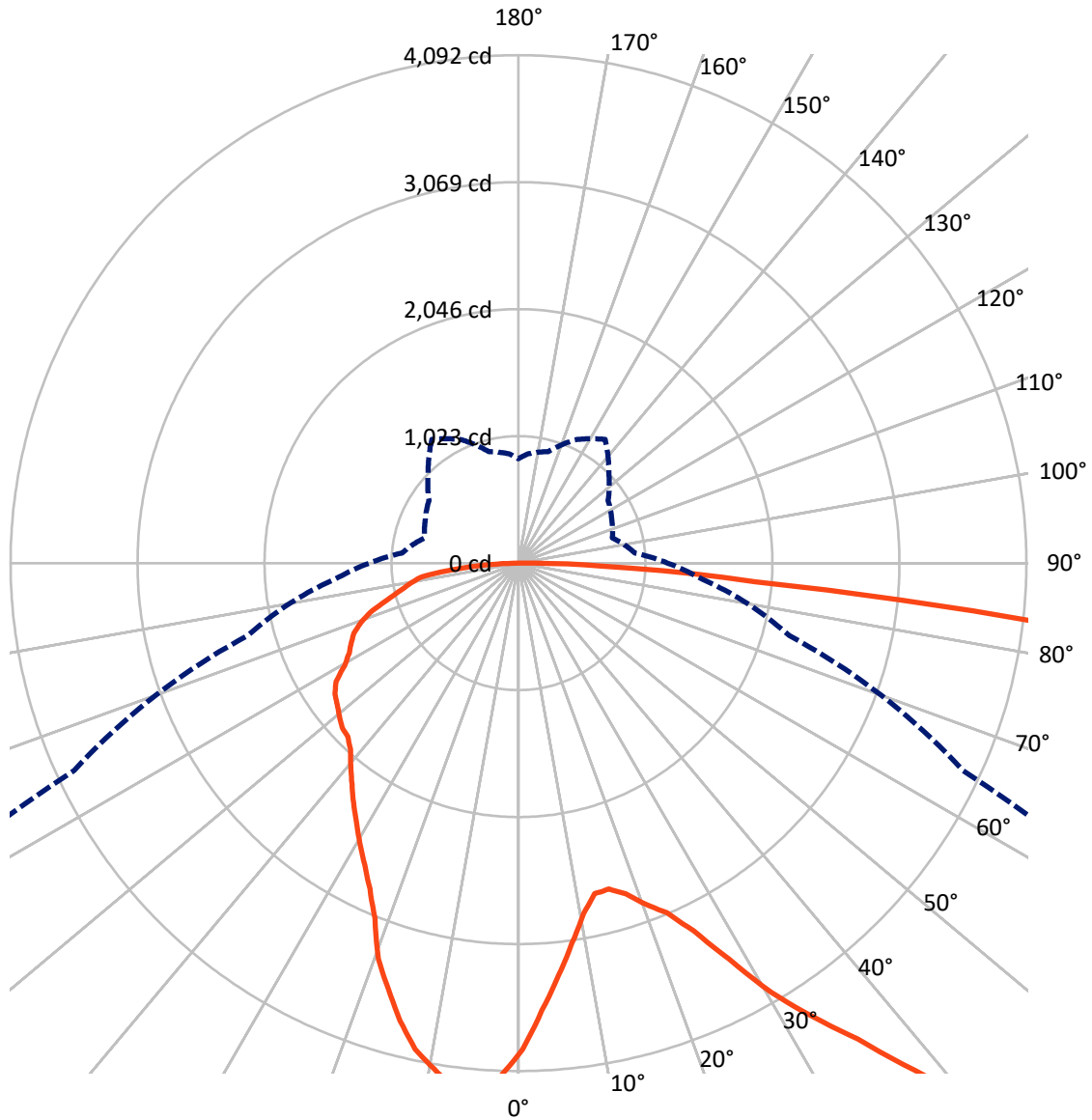
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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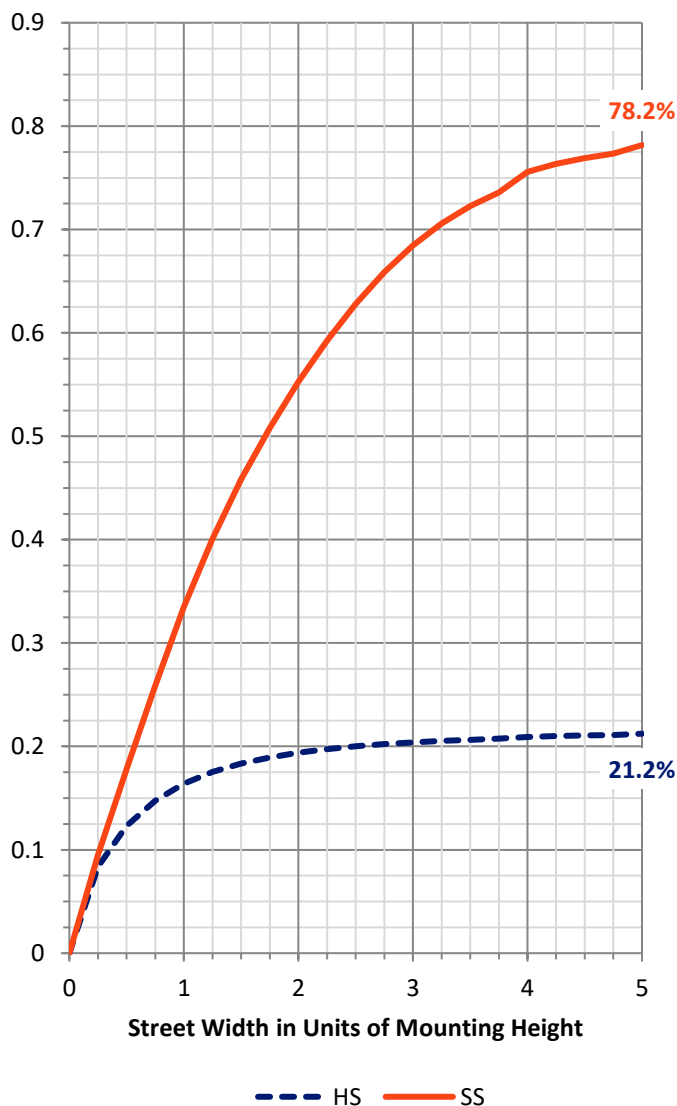
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5901.8	0.0	5901.8
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	21419.7	0.0	21419.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	27321.4	0.0	27321.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.5	1.3
10°-20°	1011.7	3.7
20°-30°	1665.2	6.1
30°-40°	2490.2	9.1
40°-50°	3691.7	13.5
50°-60°	5320.1	19.5
60°-70°	6789.2	24.8
70°-80°	5283.1	19.3
80°-90°	708.8	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°	27321.4	100.0
0°-180°	27321.4	100.0

**Coefficient of Utilization**



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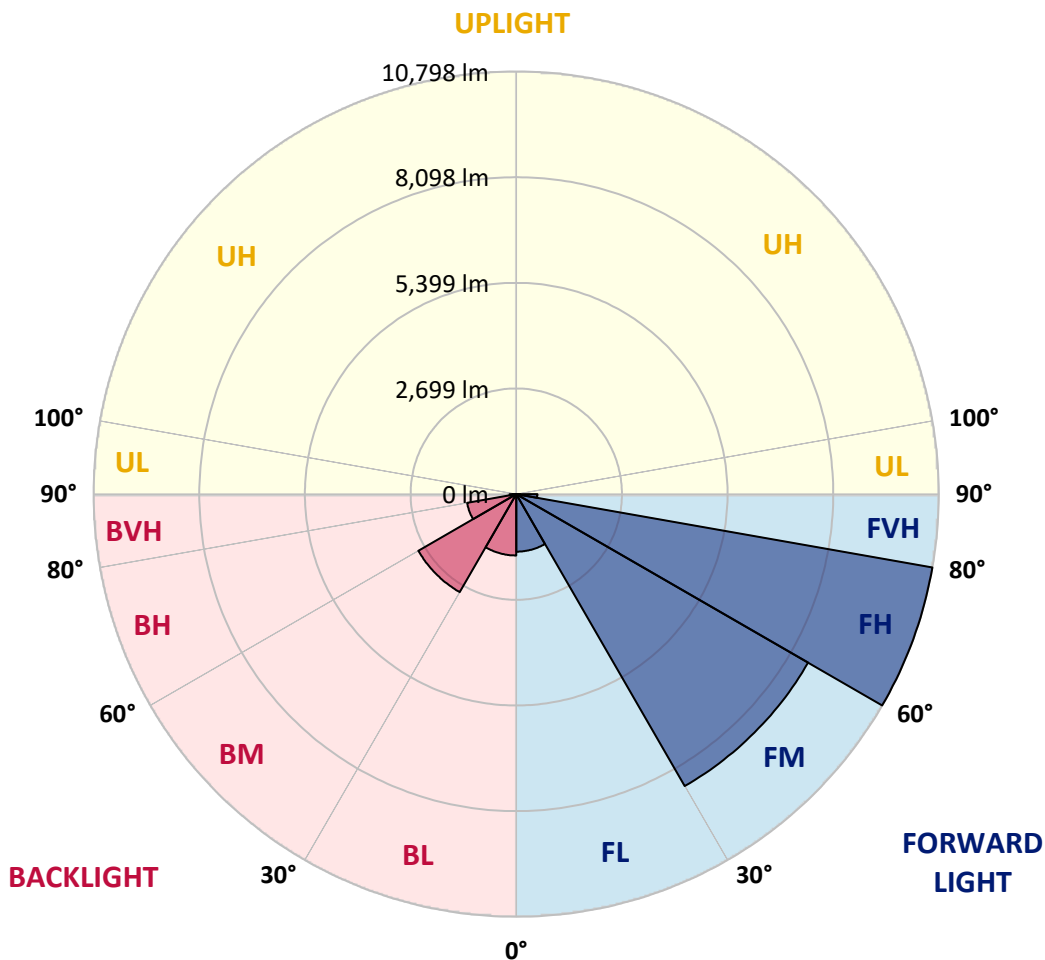
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1470.4	5.4			
FM (30°-60°)	8611.9	31.5			
FH (60°-80°)	10797.9	39.5			G4/12000
FVH (80°-90°)	539.5	2.0			G4/750
BL (0°-30°)	1568.1	5.7	B3/2500		
BM (30°-60°)	2890.1	10.6	B3/5000		
BH (60°-80°)	1274.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	169.3	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°	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0
2.5°	3509.7	3521.2	3558.8	3567.4	3607.9	3584.8	3633.9	3720.5	3769.6	3841.9	3928.5
5°	3232.4	3183.3	3206.4	3295.9	3342.1	3353.7	3405.7	3553.0	3645.4	3752.3	3914.1
7.5°	2905.9	2897.3	2943.5	3001.3	3093.7	3102.4	3217.9	3347.9	3538.5	3775.4	3966.1
10°	2683.5	2721.1	2747.1	2807.7	2871.3	2871.3	3018.6	3243.9	3460.6	3688.8	3977.6
12.5°	2672.0	2648.9	2654.6	2686.4	2732.6	2790.4	2929.1	3131.3	3405.7	3671.4	4026.7
15°	2709.5	2718.2	2666.2	2706.6	2724.0	2744.2	2897.3	3125.5	3371.0	3732.1	4110.5
17.5°	2908.8	2859.7	2778.8	2741.3	2802.0	2802.0	2905.9	3085.0	3376.8	3763.9	4231.8
20°	3064.8	3064.8	2931.9	2891.5	2934.8	2926.2	2998.4	3131.3	3405.7	3827.4	4367.6
22.5°	3327.7	3365.2	3145.7	3061.9	3059.0	3082.1	3145.7	3258.4	3486.6	3917.0	4497.6
25°	3706.1	3714.8	3460.6	3373.9	3281.5	3319.0	3330.6	3443.2	3558.8	4020.9	4644.9
27.5°	4127.8	4122.0	3888.1	3671.4	3610.8	3619.4	3555.9	3631.0	3665.6	4052.7	4855.8
30°	4595.8	4543.8	4367.6	4061.4	4012.3	3957.4	3818.7	3815.9	3888.1	4231.8	5147.5
32.5°	4902.0	4835.5	4714.2	4494.7	4358.9	4364.7	4145.2	4142.3	4078.7	4428.2	5401.7
35°	5202.4	5101.3	5069.5	4844.2	4708.4	4722.9	4546.7	4523.6	4408.0	4725.8	5820.6
37.5°	5563.5	5473.9	5523.0	5352.6	5185.1	5115.7	5034.9	5006.0	4855.8	5144.6	6392.5
40°	5962.1	5933.2	5901.4	5817.7	5716.6	5722.3	5635.7	5606.8	5384.4	5650.1	6941.3
42.5°	6499.4	6389.6	6225.0	6279.8	6331.8	6386.7	6357.8	6282.7	6051.6	6164.3	7553.7
45°	6999.1	6854.7	6551.4	6568.7	6782.5	6825.8	7175.3	7166.6	6701.6	6817.1	8249.9
47.5°	7337.1	7270.6	7088.7	7068.4	7374.6	7371.7	8001.5	8001.5	7386.2	7467.1	8998.0
50°	7839.7	7666.4	7588.4	7689.5	7845.5	7952.3	8844.9	8899.8	8059.2	8145.9	9977.3
52.5°	8429.0	8212.3	8015.9	8275.9	8553.2	8622.5	9679.7	9656.6	8576.3	8934.5	11124.0
55°	8917.1	8807.4	8671.6	8821.8	9275.3	9362.0	10517.4	10303.7	9093.4	9587.3	11675.8
57.5°	9486.2	9552.6	9581.5	9544.0	10084.1	10219.9	11473.6	10861.2	9538.2	10026.4	11999.3
60°	10344.1	10384.6	10422.1	10511.7	11083.6	11274.3	12230.4	11560.2	9818.4	10280.6	12025.3
62.5°	11649.8	11493.8	11577.6	11886.6	12345.9	12562.6	13345.4	12051.3	10032.2	10433.7	11176.0
65°	13143.2	12932.3	12845.7	13244.3	14434.4	14261.1	14737.7	12418.1	9723.1	9861.7	9477.5
67.5°	14656.8	14679.9	14457.5	15257.6	16716.4	16716.4	16031.8	12594.3	8885.4	7992.8	6646.7
70°	15858.5	15930.7	16052.0	17603.2	19914.1	20263.6	17635.0	11872.2	7178.2	5320.8	3633.9
72.5°	15841.1	15624.5	16245.6	19102.4	22820.0	22528.3	17970.1	9388.0	4480.2	2605.5	1666.7
73°	15485.8	15303.9	15982.7	19087.9	22938.5	22664.1	17724.5	8654.3	3951.6	2258.9	1481.9
75°	12646.3	12317.0	13472.5	17288.3	21222.6	21433.5	15058.3	5644.3	2166.5	1392.3	1042.8
77.5°	5765.7	5910.1	7415.1	11597.8	16355.3	16603.7	9899.3	2440.9	1187.2	976.4	768.4
80°	1851.6	1944.0	2885.7	5765.7	10251.7	10699.4	4575.6	1109.2	846.4	748.2	574.8
82.5°	707.7	704.8	1210.3	2397.5	4858.6	5144.6	1672.5	675.9	629.7	551.7	407.3
85°	248.4	260.0	456.4	947.5	1912.3	2001.8	580.6	375.5	436.2	369.7	234.0
87.5°	86.7	89.5	161.8	343.7	658.6	696.2	161.8	150.2	216.6	213.8	118.4
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°	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0	3917.0
2.5°	3957.4	3983.4	3992.1	4096.1	4096.1	4096.1	4136.5	4136.5	4124.9	4096.1	4165.4
5°	3974.7	4020.9	4110.5	4200.0	4223.2	4243.4	4298.3	4252.0	4269.4	4240.5	4266.5
7.5°	4023.8	4087.4	4254.9	4309.8	4272.3	4315.6	4257.8	4226.0	4194.3	4205.8	4165.4
10°	4107.6	4188.5	4266.5	4367.6	4295.4	4252.0	4133.6	4104.7	4003.6	3969.0	4000.7
12.5°	4211.6	4309.8	4442.7	4405.1	4266.5	4142.3	4015.2	3893.8	3833.2	3746.5	3769.6
15°	4315.6	4428.2	4448.5	4384.9	4211.6	4055.6	3824.5	3654.1	3593.4	3515.4	3555.9
17.5°	4428.2	4535.1	4500.5	4335.8	4101.8	3865.0	3602.1	3434.6	3307.5	3258.4	3258.4
20°	4595.8	4647.8	4592.9	4254.9	3969.0	3657.0	3402.8	3212.1	3085.0	3064.8	3033.0
22.5°	4725.8	4809.5	4564.0	4136.5	3775.4	3385.5	3093.7	3021.5	2983.9	2952.2	2911.7
25°	4893.3	4890.4	4512.0	4026.7	3443.2	3061.9	2885.7	2879.9	2862.6	2851.1	2905.9
27.5°	5052.2	4985.7	4451.4	3755.2	3099.5	2816.4	2721.1	2784.6	2810.6	2793.3	2816.4
30°	5303.5	5193.7	4364.7	3466.3	2796.2	2568.0	2585.3	2672.0	2715.3	2741.3	2706.6
32.5°	5569.2	5401.7	4185.6	3165.9	2527.5	2412.0	2452.4	2542.0	2594.0	2622.9	2654.6
35°	5953.4	5563.5	4003.6	2773.1	2334.0	2316.7	2339.8	2388.9	2464.0	2484.2	2492.9
37.5°	6427.2	5809.0	3758.1	2458.2	2183.8	2204.0	2227.1	2244.5	2247.3	2284.9	2270.4
40°	6900.9	6017.0	3399.9	2157.8	2027.8	2137.6	2126.0	2094.2	2068.2	2033.6	2024.9
42.5°	7316.9	6199.0	3001.3	1903.6	1889.2	2068.2	2030.7	1949.8	1889.2	1863.2	1819.8
45°	7784.8	6456.0	2599.8	1744.7	1782.3	1984.5	1972.9	1848.7	1770.7	1678.3	1666.7
47.5°	8391.4	6724.7	2215.6	1580.1	1681.2	1952.7	1958.5	1799.6	1686.9	1562.7	1545.4
50°	9168.5	7111.8	1923.8	1510.7	1620.5	1906.5	1915.1	1733.2	1585.8	1458.7	1447.2
52.5°	9913.7	7507.5	1681.2	1403.9	1580.1	1851.6	1871.8	1672.5	1502.1	1343.2	1351.9
55°	10289.2	7363.1	1473.2	1325.9	1487.6	1762.1	1837.2	1629.2	1375.0	1265.2	1262.3
57.5°	10373.0	7007.8	1308.5	1245.0	1409.6	1666.7	1779.4	1499.2	1317.2	1224.8	1213.2
60°	10098.6	6386.7	1178.6	1158.3	1311.4	1568.5	1646.5	1429.9	1259.4	1184.3	1167.0
62.5°	9422.7	5742.6	1089.0	1117.9	1227.7	1461.6	1562.7	1380.8	1204.6	1152.6	1115.0
65°	7727.0	4722.9	1016.8	1039.9	1141.0	1357.6	1510.7	1325.9	1155.4	1106.3	1103.4
67.5°	5352.6	3255.5	959.0	1002.3	1071.7	1282.5	1458.7	1265.2	1091.9	1074.6	1051.5
70°	2741.3	1736.1	883.9	918.6	996.6	1187.2	1366.3	1201.7	1025.5	1022.6	993.7
72.5°	1389.4	1016.8	797.3	849.3	904.1	1063.0	1250.8	1117.9	941.7	909.9	863.7
73°	1201.7	941.7	782.8	829.0	881.0	1028.3	1216.1	1097.7	930.1	883.9	840.6
75°	875.2	742.4	701.9	748.2	788.6	927.2	1100.6	1005.2	855.0	805.9	765.5
77.5°	655.7	571.9	583.5	635.5	670.2	800.1	979.2	909.9	774.1	707.7	690.4
80°	482.4	436.2	482.4	531.5	557.5	704.8	892.6	788.6	652.8	577.7	563.3
82.5°	343.7	317.7	372.6	404.4	416.0	583.5	803.0	629.7	494.0	395.7	364.0
85°	196.4	193.5	251.3	248.4	257.1	340.9	528.6	418.8	317.7	242.6	236.9
87.5°	86.7	95.3	127.1	101.1	106.9	161.8	225.3	156.0	130.0	72.2	54.9
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)