

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: P476731

Luminaire Tested: **IFLD-S-SA6D-827-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476731  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-827-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

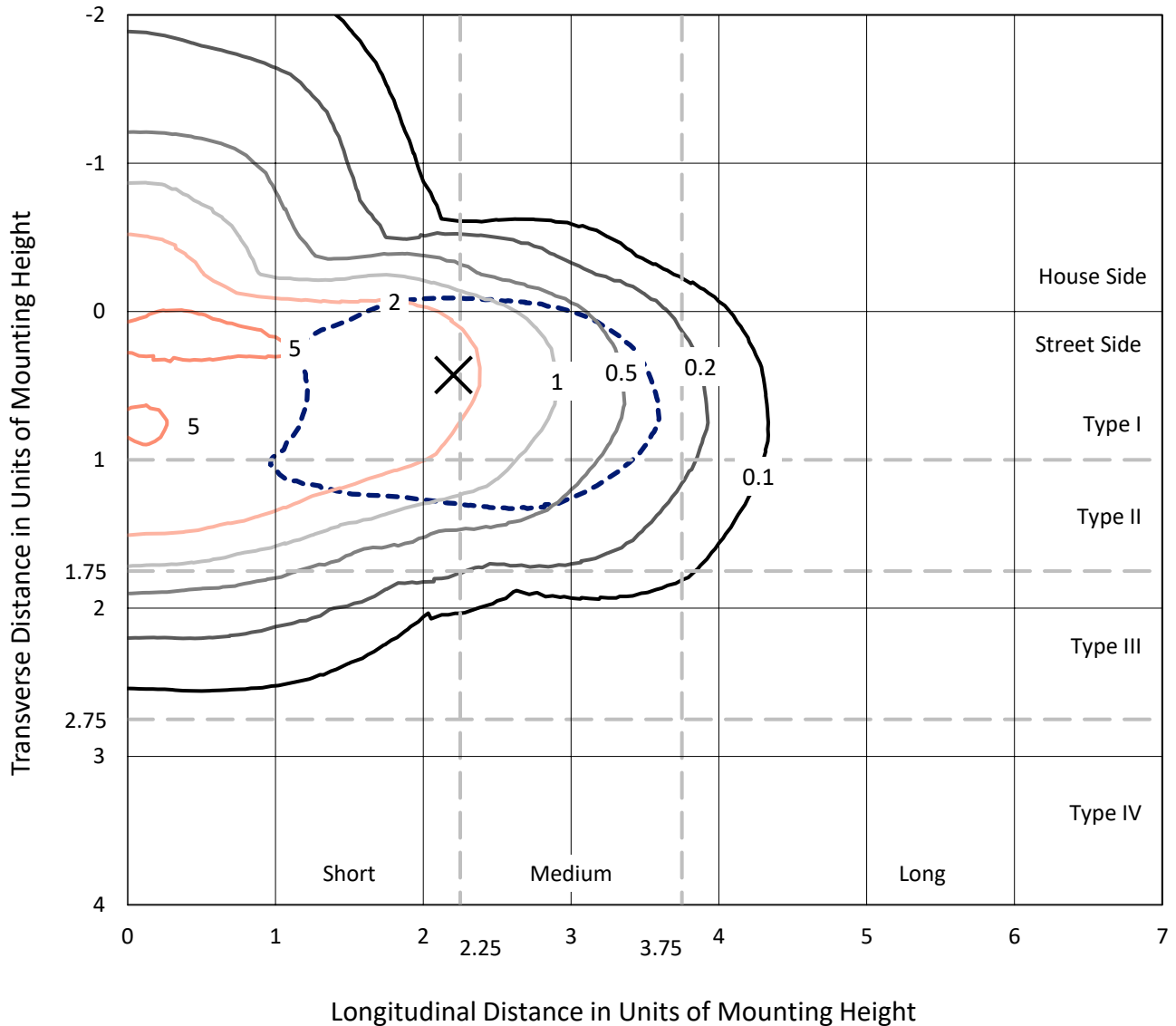
Lumens per Lamp: N/A  
Luminaire Lumens: 33569.6 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

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

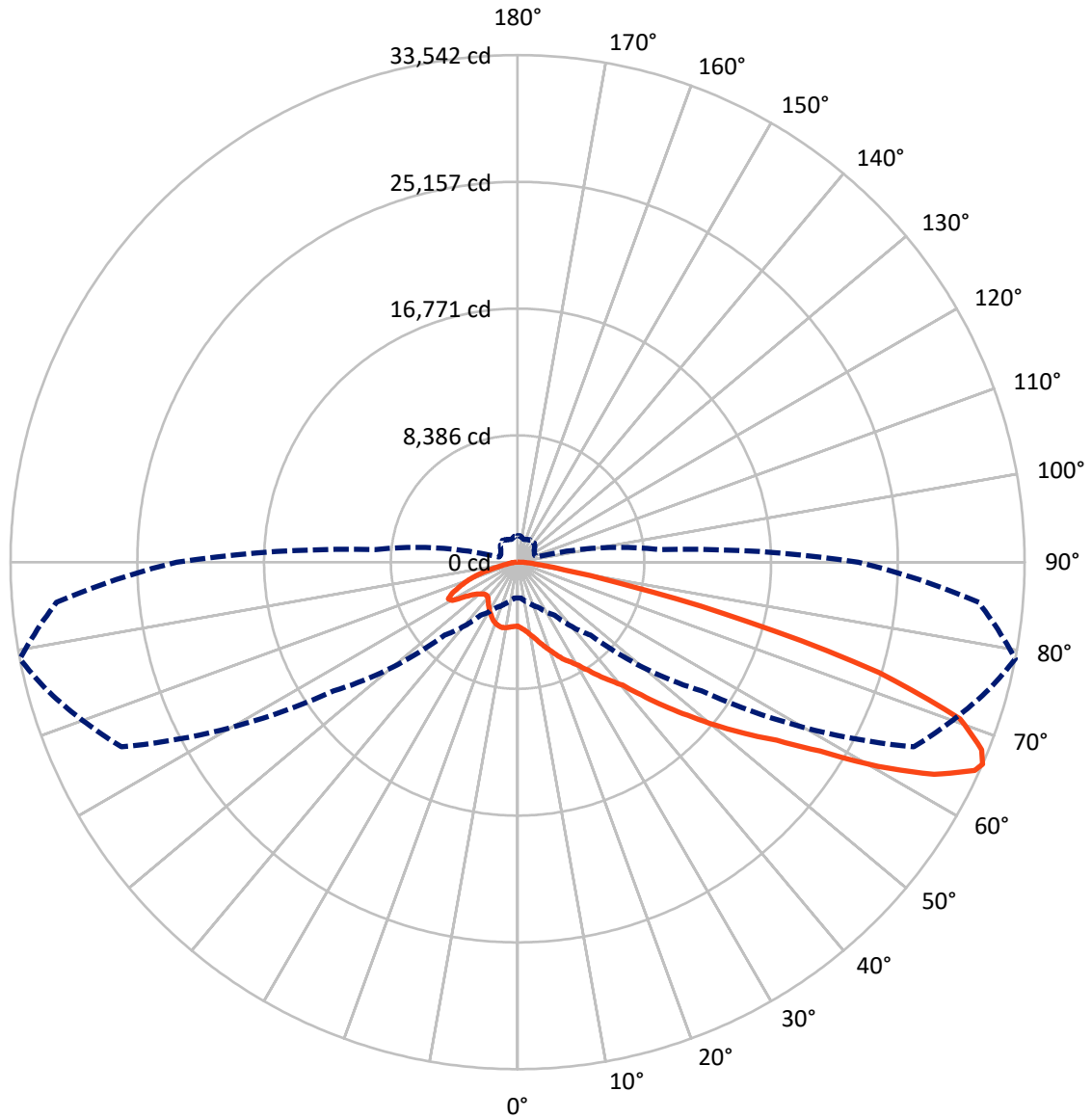
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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CATALOG NUMBER: IFLD-S-SA6D-827-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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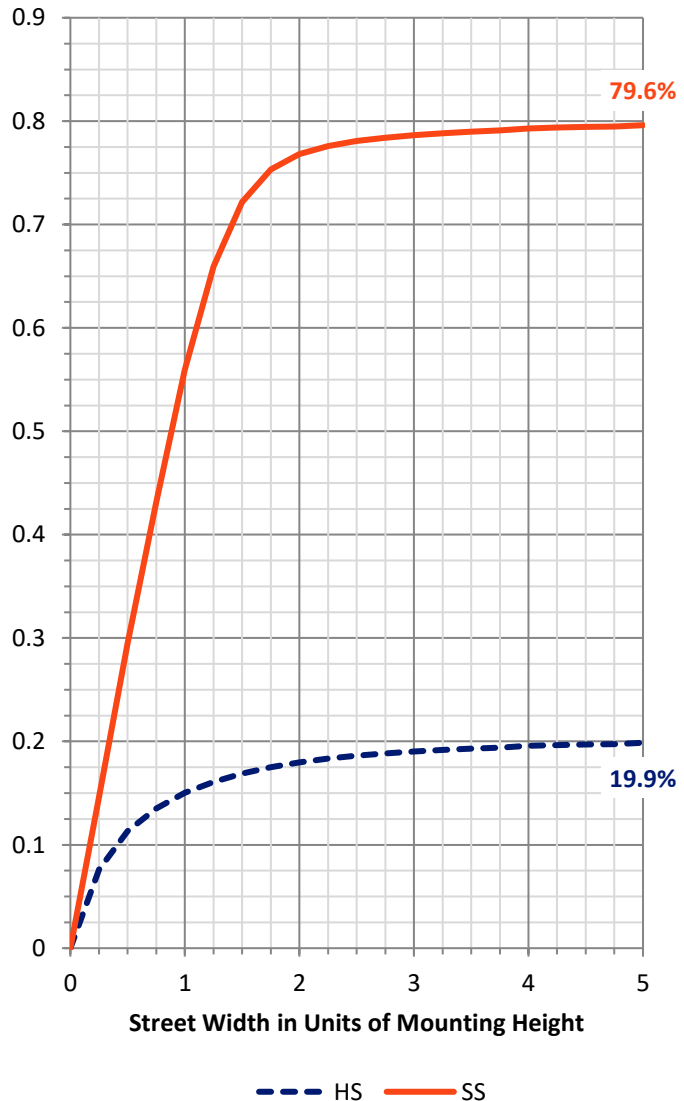
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6778.9	0.0	6778.9
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	26790.7	0.0	26790.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	33569.6	0.0	33569.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.8	1.2
10°-20°	1287.1	3.8
20°-30°	2209.3	6.6
30°-40°	3413.0	10.2
40°-50°	5466.7	16.3
50°-60°	8162.2	24.3
60°-70°	8386.7	25.0
70°-80°	3717.7	11.1
80°-90°	510.1	1.5
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°	33569.6	100.0
0°-180°	33569.6	100.0

**Coefficient of Utilization**



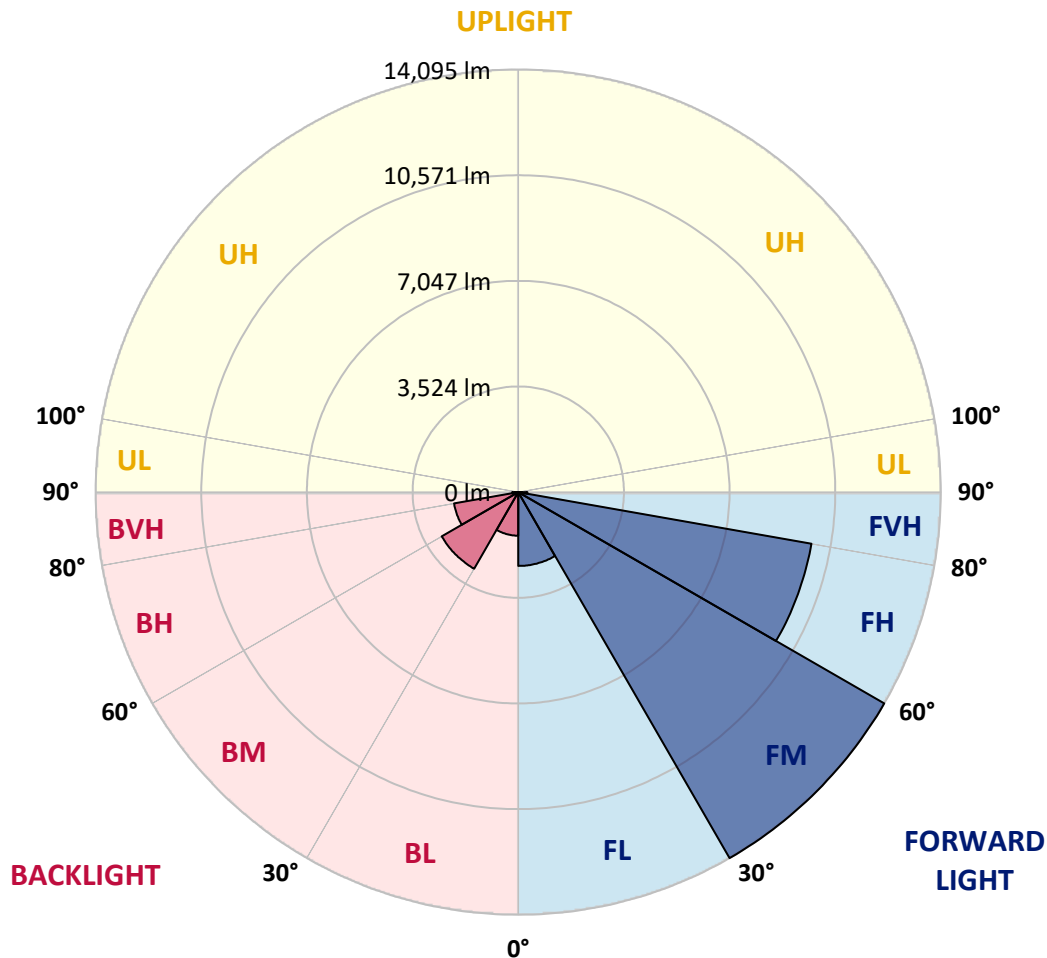
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 CATALOG NUMBER: IFLD-S-SA6D-827-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2460.9	7.3			
FM (30°-60°)	14094.7	42.0			
FH (60°-80°)	9929.1	29.6			G4/12000
FVH (80°-90°)	305.9	0.9			G3/500
BL (0°-30°)	1452.4	4.3	B3/2500		
BM (30°-60°)	2947.2	8.8	B3/5000		
BH (60°-80°)	2175.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	204.2	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9
2.5°	4508.5	4512.1	4512.1	4497.4	4501.1	4512.1	4471.5	4382.9	4382.9	4368.1	4342.3
5°	4785.4	4766.9	4741.1	4744.8	4730.0	4730.0	4685.7	4600.8	4526.9	4497.4	4419.8
7.5°	4822.3	4840.8	4837.1	4881.4	4903.5	4903.5	4925.7	4855.5	4744.8	4674.6	4597.1
10°	4896.2	4848.2	4844.5	4947.8	4981.1	5058.6	5147.2	5110.3	5018.0	4918.3	4814.9
12.5°	4940.5	4970.0	4970.0	5021.7	5099.2	5213.7	5368.8	5438.9	5294.9	5191.6	5032.8
15°	5006.9	4966.3	5084.5	5128.8	5276.5	5357.7	5579.3	5760.2	5664.2	5538.6	5287.6
17.5°	5036.5	5010.6	5077.1	5158.3	5409.4	5531.3	5800.8	6051.9	5970.7	5889.4	5630.9
20°	5187.9	5184.2	5213.7	5280.2	5461.1	5701.1	6037.1	6384.2	6413.7	6266.0	5915.3
22.5°	5557.1	5509.1	5509.1	5483.3	5560.8	5808.2	6262.4	6742.4	6875.3	6701.8	6236.5
25°	5896.8	5963.3	5922.7	5804.5	5775.0	5904.2	6424.8	7122.7	7299.9	7137.5	6672.2
27.5°	6332.5	6354.7	6424.8	6266.0	6063.0	6103.6	6602.1	7336.8	7702.4	7484.5	6919.6
30°	6960.2	6919.6	6904.8	6727.6	6461.7	6406.4	6805.1	7650.7	8230.4	7923.9	7211.3
32.5°	7384.9	7484.5	7480.9	7237.2	6915.9	6794.1	7056.2	7946.1	8795.4	8511.0	7750.4
35°	8226.7	8330.1	8248.9	7890.7	7514.1	7270.4	7418.1	8330.1	9441.5	9220.0	8208.3
37.5°	9301.2	9544.9	9371.4	8710.4	8178.7	7912.9	7920.3	8747.4	10102.5	9921.5	8699.4
40°	10043.4	10372.0	10132.0	9511.7	8946.7	8695.7	8596.0	9242.1	10892.7	10700.6	9467.4
42.5°	10962.8	11236.1	11110.5	10497.6	9836.6	9622.5	9423.1	10069.2	12100.1	12011.5	10453.3
45°	11967.2	12096.4	12055.8	11668.1	10933.3	10859.4	10420.0	11158.5	13521.7	13558.6	11686.5
47.5°	12901.3	12971.5	13049.0	12768.4	12310.5	12373.3	11568.4	12325.3	14902.6	15146.3	13060.1
50°	13141.3	13381.3	13562.3	13750.6	13850.3	14274.9	12834.9	13758.0	16490.4	16963.0	14588.8
52.5°	12897.6	12879.2	13429.4	14020.1	15017.1	15907.0	14559.2	15537.7	17893.5	18827.7	15988.2
55°	11789.9	11753.0	12639.2	13422.0	15367.9	16815.3	17022.1	17908.3	19588.3	20803.1	17882.4
57.5°	9851.4	9622.5	10589.9	11874.8	14607.2	16915.0	19496.0	21427.1	22195.2	23579.8	20773.6
60°	6620.5	6524.5	7451.3	8983.7	11860.1	15500.8	20976.7	25832.2	25869.1	27427.3	25259.9
62.5°	4076.4	4094.9	4689.4	5837.7	8304.3	12288.4	20337.9	29351.1	29358.5	30920.4	28952.3
65°	2665.9	2677.0	3157.0	3792.1	5187.9	8333.8	16819.0	29628.0	31784.4	33235.5	30643.4
66°	2374.2	2377.9	2791.5	3308.4	4298.0	6819.9	14854.6	28908.0	32330.9	33542.0	30621.3
67.5°	2001.3	2049.3	2381.6	2780.4	3352.7	4899.8	11786.2	26825.5	32050.3	33113.7	29927.1
70°	1565.6	1591.4	1853.6	2259.8	2514.5	2835.8	7004.5	21866.5	29336.3	31060.7	27401.5
72.5°	1255.4	1277.6	1477.0	1835.1	2041.9	1868.4	3814.3	15866.4	23173.7	25012.5	21552.7
75°	1059.7	1063.4	1159.4	1443.7	1680.1	1403.1	2030.8	10183.7	14869.4	15726.0	13204.1
77.5°	856.6	871.4	937.9	1100.3	1351.4	1104.0	1211.1	5704.8	7466.1	7528.9	6103.6
80°	697.9	705.3	745.9	801.3	1030.2	816.0	819.7	2784.1	3201.3	3127.5	2481.3
82.5°	550.2	557.6	605.6	594.5	756.9	583.4	509.6	1340.4	1473.3	1443.7	1141.0
85°	310.2	310.2	476.3	476.3	480.0	369.2	310.2	631.4	779.1	727.4	535.4
87.5°	99.7	103.4	144.0	151.4	240.0	166.2	151.4	236.3	369.2	324.9	192.0
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°	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9	4238.9
2.5°	4327.5	4268.4	4242.6	4157.7	4135.5	4080.1	4054.3	4021.1	4010.0	3962.0	4006.3
5°	4360.8	4342.3	4238.9	4131.8	4050.6	4013.7	3958.3	3884.4	3877.0	3810.6	3803.2
7.5°	4501.1	4438.3	4257.4	4142.9	3980.4	3888.1	3766.3	3729.3	3681.3	3659.2	3707.2
10°	4718.9	4560.1	4290.6	4002.6	3803.2	3692.4	3603.8	3578.0	3581.7	3566.9	3544.7
12.5°	4874.0	4722.6	4235.2	3884.4	3626.0	3518.9	3511.5	3537.3	3578.0	3559.5	3585.3
15°	5095.5	4811.2	4194.6	3688.7	3482.0	3452.4	3448.7	3526.3	3522.6	3522.6	3518.9
17.5°	5302.3	4899.8	4046.9	3518.9	3330.6	3352.7	3378.6	3374.9	3411.8	3426.6	3452.4
20°	5564.5	5003.2	3840.1	3349.0	3216.1	3208.7	3205.0	3208.7	3245.6	3267.8	3249.3
22.5°	5793.4	5025.4	3666.6	3186.6	3079.5	3049.9	3001.9	3049.9	3031.5	3038.9	3061.0
25°	5992.8	5029.1	3419.2	3064.7	2942.9	2876.4	2839.5	2835.8	2802.6	2798.9	2798.9
27.5°	6159.0	4903.5	3201.3	2894.9	2780.4	2717.6	2713.9	2673.3	2588.4	2533.0	2540.4
30°	6288.2	4807.5	3049.9	2747.2	2636.4	2625.3	2592.1	2499.8	2389.0	2318.8	2318.8
32.5°	6517.1	4615.5	2843.2	2595.8	2540.4	2525.6	2448.1	2366.8	2263.5	2197.0	2185.9
35°	6687.0	4438.3	2706.5	2466.5	2440.7	2411.2	2344.7	2256.1	2226.5	2211.8	2222.8
37.5°	6879.0	4238.9	2540.4	2355.8	2381.6	2326.2	2248.7	2208.1	2311.5	2285.6	2296.7
40°	7185.5	4098.6	2377.9	2289.3	2315.2	2252.4	2152.7	2137.9	2267.1	2174.8	2152.7
42.5°	7746.7	4094.9	2278.2	2189.6	2208.1	2160.1	2071.5	2064.1	2115.8	2005.0	1971.8
45°	8444.6	4224.1	2204.4	2115.8	2101.0	2093.6	2064.1	2030.8	1986.5	1842.5	1805.6
47.5°	9279.1	4434.6	2189.6	2005.0	2023.4	2086.2	2049.3	1964.4	1849.9	1757.6	1739.1
50°	10290.8	4870.3	2152.7	1923.8	1957.0	2056.7	2027.1	1909.0	1805.6	1746.5	1735.4
52.5°	11409.6	5420.5	2104.7	1798.2	1872.1	2030.8	2045.6	1934.8	1783.4	1731.7	1724.4
55°	12727.8	6232.8	2049.3	1661.6	1772.4	2005.0	2045.6	1861.0	1753.9	1753.9	1746.5
57.5°	15330.9	7695.0	1934.8	1536.0	1683.7	1957.0	1986.5	1864.7	1757.6	1757.6	1742.8
60°	19148.9	9976.9	1717.0	1440.0	1598.8	1890.5	1942.2	1809.3	1717.0	1739.1	1735.4
62.5°	22136.1	10671.1	1532.4	1347.7	1513.9	1768.7	1883.1	1750.2	1669.0	1750.2	1757.6
65°	22774.9	9969.5	1344.0	1248.0	1395.7	1650.5	1798.2	1665.3	1598.8	1757.6	1765.0
66°	22545.9	9423.1	1277.6	1218.5	1344.0	1591.4	1746.5	1635.7	1561.9	1750.2	1753.9
67.5°	21526.8	8603.4	1203.7	1155.7	1273.9	1506.5	1687.4	1595.1	1502.8	1728.1	1694.8
70°	19311.4	7296.2	1078.2	1045.0	1174.2	1366.2	1550.8	1491.7	1410.5	1591.4	1532.4
72.5°	14873.1	5830.3	945.3	949.0	1059.7	1222.2	1414.2	1373.6	1303.4	1395.7	1358.8
75°	9057.5	3725.7	823.4	830.8	923.1	1085.6	1285.0	1255.4	1170.5	1222.2	1203.7
77.5°	4013.7	1846.2	694.2	708.9	782.8	956.3	1118.8	1070.8	982.2	993.3	985.9
80°	1558.2	875.1	564.9	583.4	631.4	764.3	926.8	882.5	804.9	790.2	782.8
82.5°	749.6	487.4	435.7	443.1	461.6	609.3	797.6	742.2	638.8	572.3	572.3
85°	376.6	302.8	306.5	280.6	306.5	413.6	539.1	450.5	372.9	332.3	339.7
87.5°	151.4	151.4	151.4	129.2	136.6	195.7	251.1	169.9	155.1	92.3	92.3
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)