

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: P478340

Luminaire Tested: **IFLD-L-SA7D-830-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478340  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

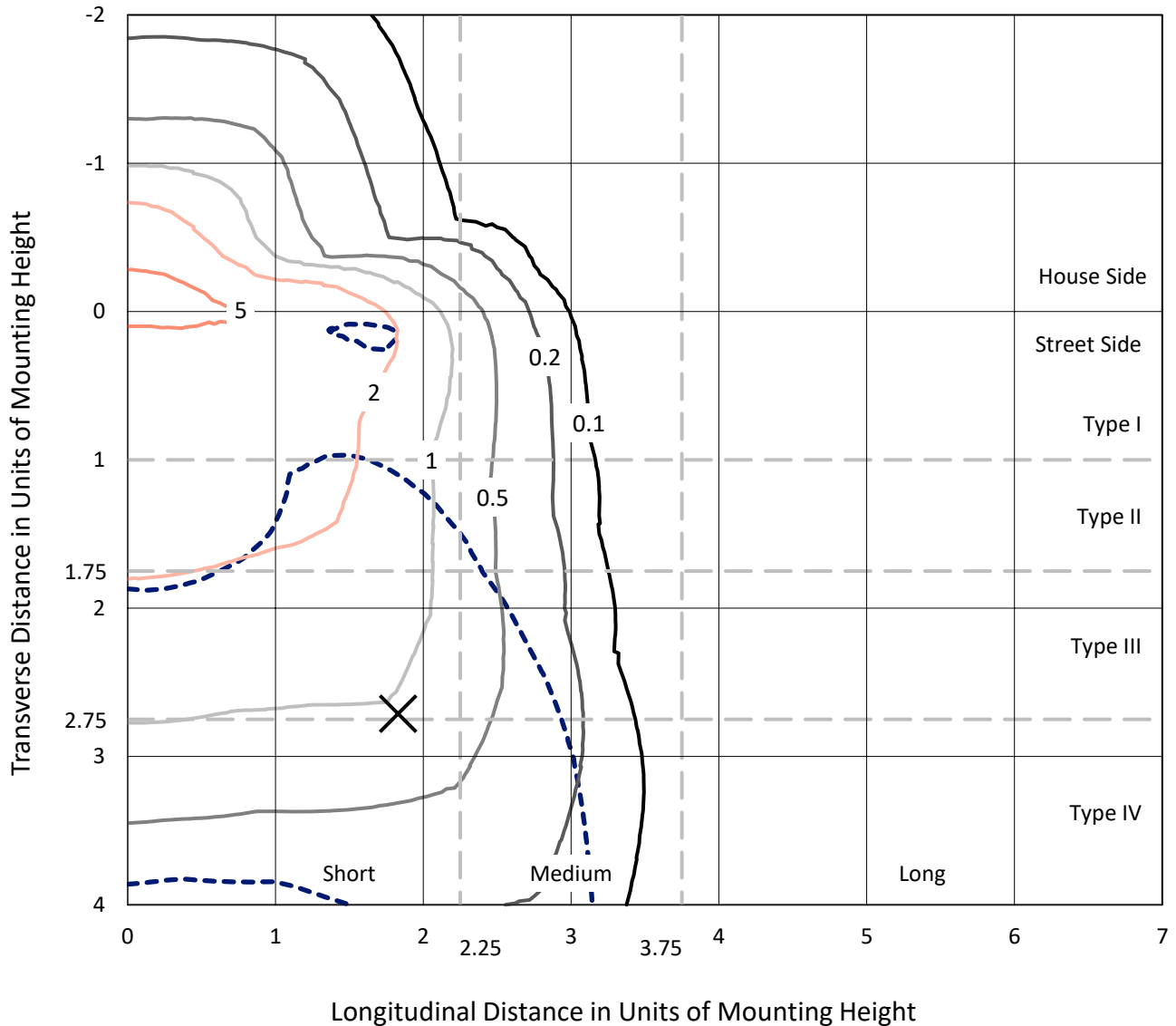
Lumens per Lamp: N/A  
Luminaire Lumens: 39709.1 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

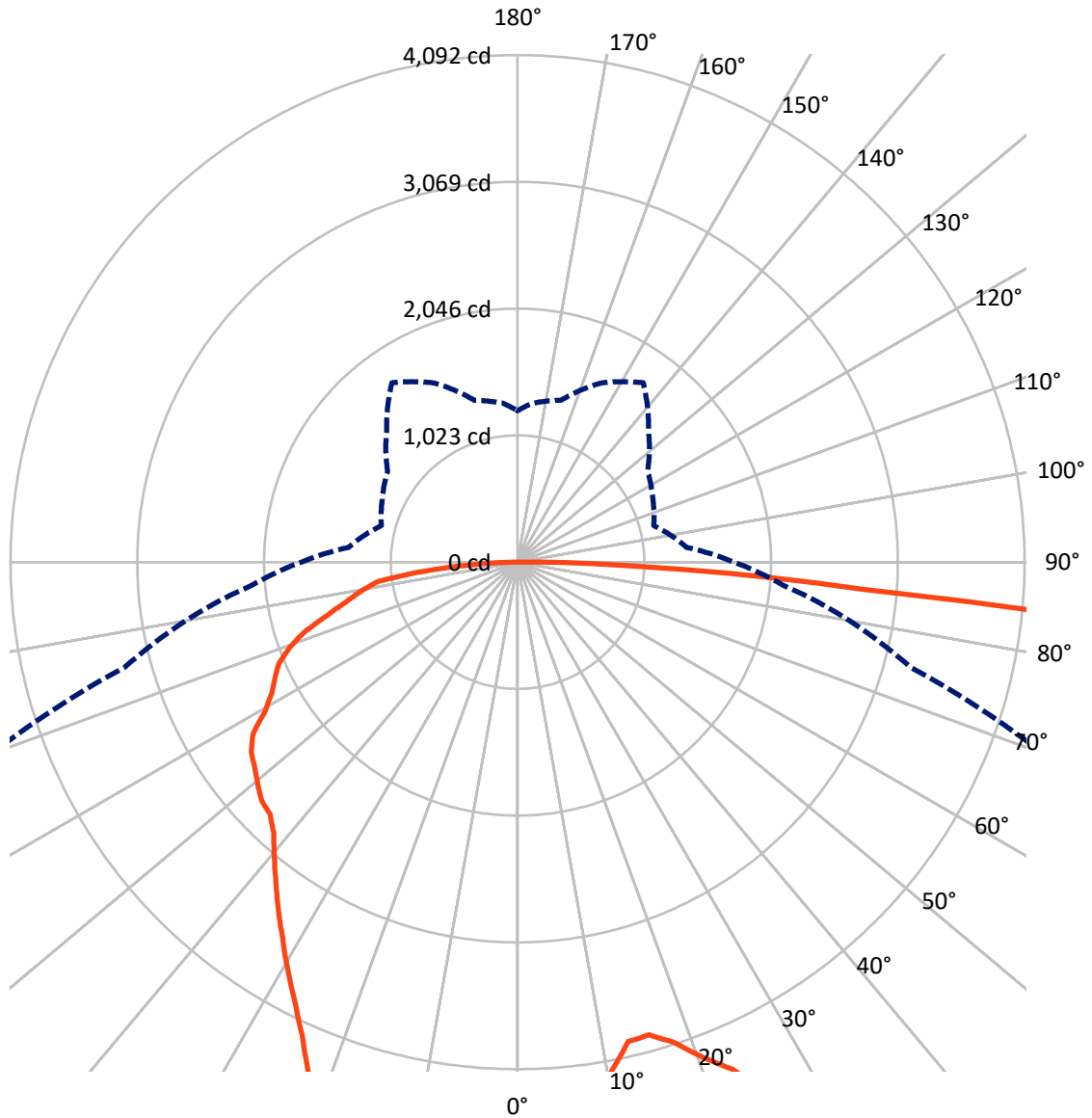
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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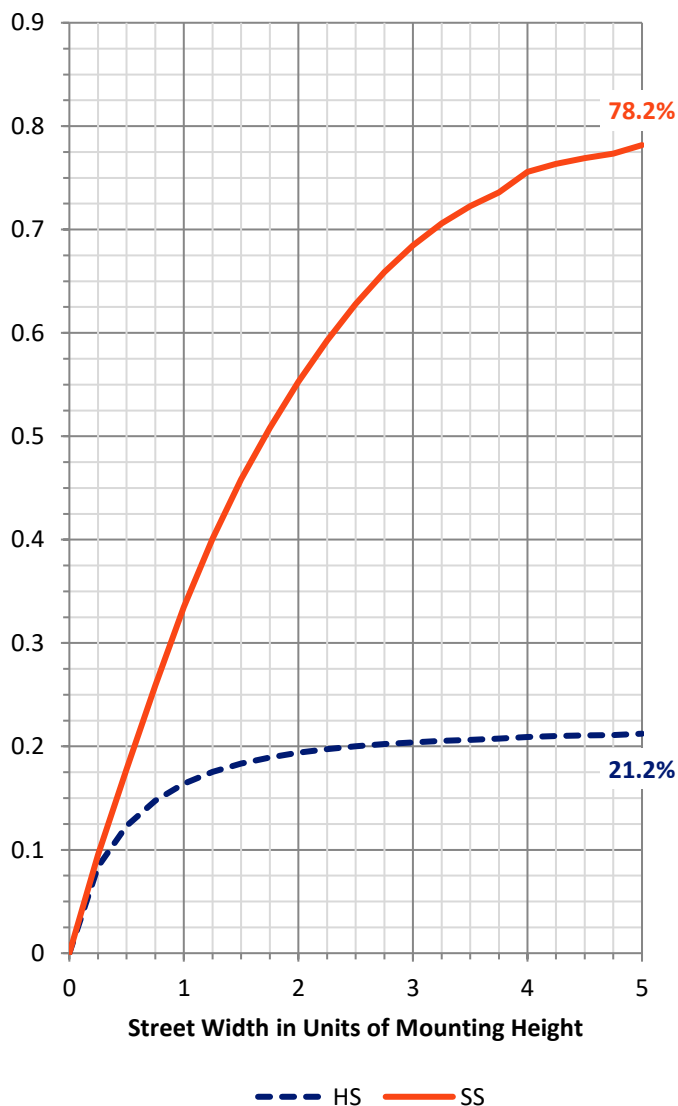
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8577.7	0.0	8577.7
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	31131.5	0.0	31131.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	39709.1	0.0	39709.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	525.4	1.3
10°-20°	1470.5	3.7
20°-30°	2420.2	6.1
30°-40°	3619.3	9.1
40°-50°	5365.5	13.5
50°-60°	7732.2	19.5
60°-70°	9867.4	24.8
70°-80°	7678.5	19.3
80°-90°	1030.1	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°	39709.1	100.0
0°-180°	39709.1	100.0

**Coefficient of Utilization**



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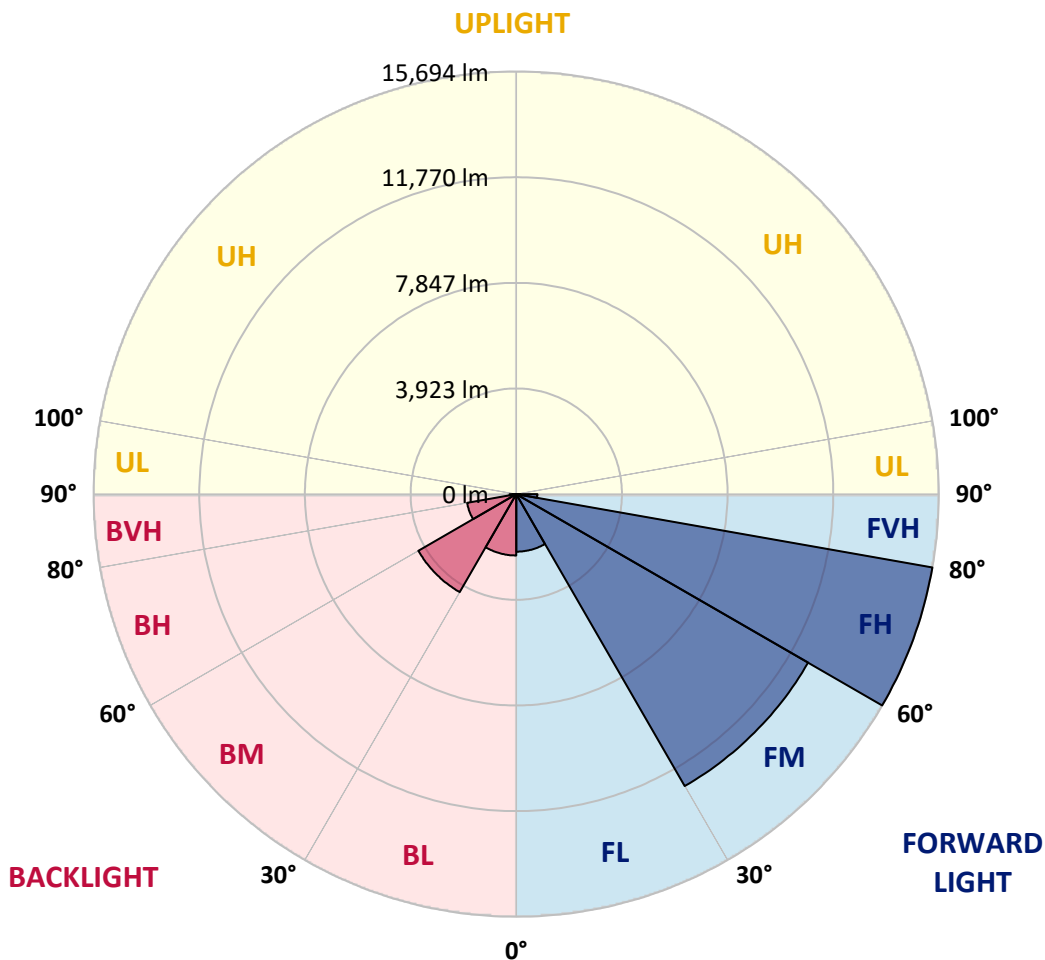
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2137.0	5.4			
FM (30°-60°)	12516.6	31.5			
FH (60°-80°)	15693.8	39.5			G5
FVH (80°-90°)	784.1	2.0			G5
BL (0°-30°)	2279.0	5.7	B3/2500		
BM (30°-60°)	4200.5	10.6	B3/5000		
BH (60°-80°)	1852.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	246.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9
2.5°	5101.0	5117.8	5172.3	5184.9	5243.7	5210.1	5281.5	5407.4	5478.8	5583.8	5709.7
5°	4697.9	4626.6	4660.1	4790.3	4857.5	4874.3	4949.8	5163.9	5298.3	5453.6	5688.7
7.5°	4223.5	4210.9	4278.1	4362.1	4496.4	4509.0	4676.9	4865.9	5142.9	5487.2	5764.3
10°	3900.2	3954.8	3992.6	4080.8	4173.1	4173.1	4387.2	4714.7	5029.6	5361.3	5781.1
12.5°	3883.4	3849.9	3858.3	3904.4	3971.6	4055.6	4257.1	4551.0	4949.8	5336.1	5852.5
15°	3938.0	3950.6	3875.1	3933.8	3959.0	3988.4	4210.9	4542.6	4899.4	5424.2	5974.2
17.5°	4227.7	4156.3	4038.8	3984.2	4072.4	4072.4	4223.5	4483.8	4907.8	5470.4	6150.5
20°	4454.4	4454.4	4261.3	4202.5	4265.5	4252.9	4357.9	4551.0	4949.8	5562.8	6347.9
22.5°	4836.5	4891.0	4572.0	4450.2	4446.0	4479.6	4572.0	4735.7	5067.4	5692.9	6536.8
25°	5386.5	5399.0	5029.6	4903.6	4769.3	4823.9	4840.7	5004.4	5172.3	5844.1	6750.9
27.5°	5999.4	5991.0	5650.9	5336.1	5247.9	5260.5	5168.1	5277.3	5327.7	5890.2	7057.4
30°	6679.5	6604.0	6347.9	5902.8	5831.5	5751.7	5550.2	5546.0	5650.9	6150.5	7481.4
32.5°	7124.6	7028.0	6851.7	6532.6	6335.3	6343.7	6024.6	6020.4	5928.0	6436.0	7850.9
35°	7561.2	7414.2	7368.1	7040.6	6843.3	6864.3	6608.2	6574.6	6406.6	6868.5	8459.6
37.5°	8086.0	7955.8	8027.2	7779.5	7536.0	7435.2	7317.7	7275.7	7057.4	7477.2	9290.9
40°	8665.3	8623.4	8577.2	8455.4	8308.5	8316.9	8190.9	8148.9	7825.7	8211.9	10088.6
42.5°	9446.2	9286.7	9047.4	9127.2	9202.7	9282.5	9240.5	9131.4	8795.5	8959.2	10978.6
45°	10172.5	9962.6	9521.8	9547.0	9857.7	9920.6	10428.6	10416.0	9740.1	9908.0	11990.4
47.5°	10663.7	10567.2	10302.7	10273.3	10718.3	10714.1	11629.4	11629.4	10735.1	10852.7	13077.8
50°	11394.3	11142.4	11029.0	11175.9	11402.6	11558.0	12855.3	12935.0	11713.3	11839.3	14501.0
52.5°	12250.7	11935.8	11650.3	12028.2	12431.2	12532.0	14068.6	14035.0	12464.8	12985.4	16167.7
55°	12960.2	12800.7	12603.4	12821.7	13480.8	13606.8	15286.1	14975.4	13216.3	13934.2	16969.6
57.5°	13787.3	13883.9	13925.8	13871.3	14656.4	14853.7	16675.7	15785.7	13862.9	14572.4	17439.8
60°	15034.2	15093.0	15147.6	15277.7	16109.0	16386.1	17775.7	16801.7	14270.1	14941.8	17477.6
62.5°	16931.8	16705.1	16826.9	17276.1	17943.6	18258.5	19396.3	17515.4	14580.8	15164.3	16243.3
65°	19102.4	18795.9	18669.9	19249.3	20979.0	20727.1	21419.9	18048.6	14131.6	14333.1	13774.7
67.5°	21302.3	21335.9	21012.6	22175.5	24295.7	24295.7	23300.7	18304.7	12914.0	11616.8	9660.3
70°	23048.8	23153.8	23330.1	25584.6	28943.2	29451.2	25630.8	17255.1	10432.8	7733.3	5281.5
72.5°	23023.6	22708.7	23611.4	27763.5	33166.8	32742.7	26117.8	13644.6	6511.6	3786.9	2422.4
73°	22507.2	22242.7	23229.3	27742.5	33338.9	32940.1	25760.9	12578.2	5743.3	3283.1	2153.7
75°	18380.3	17901.7	19581.0	25127.0	30845.1	31151.6	21885.9	8203.5	3148.7	2023.6	1515.6
77.5°	8379.9	8589.8	10777.1	16856.3	23770.9	24132.0	14387.7	3547.6	1725.5	1419.0	1116.8
80°	2691.1	2825.5	4194.1	8379.9	14899.9	15550.6	6650.1	1612.2	1230.1	1087.4	835.5
82.5°	1028.6	1024.4	1759.1	3484.6	7061.6	7477.2	2430.8	982.4	915.2	801.9	592.0
85°	361.1	377.8	663.3	1377.1	2779.3	2909.4	843.9	545.8	633.9	537.4	340.1
87.5°	125.9	130.1	235.1	499.6	957.2	1011.8	235.1	218.3	314.9	310.7	172.1
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°	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9	5692.9
2.5°	5751.7	5789.5	5802.1	5953.2	5953.2	5953.2	6012.0	6012.0	5995.2	5953.2	6054.0
5°	5776.9	5844.1	5974.2	6104.4	6138.0	6167.3	6247.1	6179.9	6205.1	6163.1	6200.9
7.5°	5848.3	5940.6	6184.1	6263.9	6209.3	6272.3	6188.3	6142.1	6096.0	6112.8	6054.0
10°	5970.0	6087.6	6200.9	6347.9	6242.9	6179.9	6007.8	5965.8	5818.9	5768.5	5814.7
12.5°	6121.2	6263.9	6457.0	6402.4	6200.9	6020.4	5835.7	5659.3	5571.2	5445.2	5478.8
15°	6272.3	6436.0	6465.4	6373.1	6121.2	5894.4	5558.6	5310.9	5222.7	5109.4	5168.1
17.5°	6436.0	6591.4	6541.0	6301.7	5961.6	5617.4	5235.3	4991.8	4807.1	4735.7	4735.7
20°	6679.5	6755.1	6675.3	6184.1	5768.5	5315.1	4945.6	4668.5	4483.8	4454.4	4408.2
22.5°	6868.5	6990.2	6633.4	6012.0	5487.2	4920.4	4496.4	4391.4	4336.9	4290.7	4231.9
25°	7112.0	7107.8	6557.8	5852.5	5004.4	4450.2	4194.1	4185.7	4160.5	4143.7	4223.5
27.5°	7342.9	7246.3	6469.6	5457.8	4504.8	4093.4	3954.8	4047.2	4085.0	4059.8	4093.4
30°	7708.1	7548.6	6343.7	5038.0	4064.0	3732.3	3757.5	3883.4	3946.4	3984.2	3933.8
32.5°	8094.4	7850.9	6083.4	4601.4	3673.5	3505.6	3564.4	3694.5	3770.1	3812.1	3858.3
35°	8652.7	8086.0	5818.9	4030.4	3392.2	3367.1	3400.6	3472.0	3581.2	3610.6	3623.2
37.5°	9341.3	8442.8	5462.0	3572.8	3173.9	3203.3	3236.9	3262.1	3266.3	3320.9	3299.9
40°	10029.8	8745.1	4941.4	3136.1	2947.2	3106.8	3090.0	3043.8	3006.0	2955.6	2943.0
42.5°	10634.4	9009.6	4362.1	2766.7	2745.7	3006.0	2951.4	2833.9	2745.7	2707.9	2644.9
45°	11314.5	9383.3	3778.5	2535.8	2590.4	2884.2	2867.5	2686.9	2573.6	2439.2	2422.4
47.5°	12196.1	9773.7	3220.1	2296.5	2443.4	2838.1	2846.5	2615.6	2451.8	2271.3	2246.1
50°	13325.5	10336.3	2796.1	2195.7	2355.3	2770.9	2783.5	2519.0	2304.9	2120.2	2103.4
52.5°	14408.6	10911.4	2443.4	2040.4	2296.5	2691.1	2720.5	2430.8	2183.1	1952.2	1964.8
55°	14954.4	10701.5	2141.1	1927.0	2162.1	2561.0	2670.1	2367.9	1998.4	1838.9	1834.7
57.5°	15076.2	10185.1	1901.8	1809.5	2048.8	2422.4	2586.2	2178.9	1914.4	1780.1	1763.3
60°	14677.3	9282.5	1712.9	1683.5	1906.0	2279.7	2393.0	2078.2	1830.5	1721.3	1696.1
62.5°	13694.9	8346.3	1582.8	1624.8	1784.3	2124.4	2271.3	2006.8	1750.7	1675.1	1620.6
65°	11230.5	6864.3	1477.8	1511.4	1658.3	1973.2	2195.7	1927.0	1679.3	1608.0	1603.8
67.5°	7779.5	4731.5	1393.8	1456.8	1557.6	1864.1	2120.2	1838.9	1587.0	1561.8	1528.2
70°	3984.2	2523.2	1284.7	1335.1	1448.4	1725.5	1985.8	1746.5	1490.4	1486.2	1444.2
72.5°	2019.4	1477.8	1158.7	1234.3	1314.1	1545.0	1817.9	1624.8	1368.7	1322.5	1255.3
73°	1746.5	1368.7	1137.7	1204.9	1280.5	1494.6	1767.5	1595.4	1351.9	1284.7	1221.7
75°	1272.1	1079.0	1020.2	1087.4	1146.1	1347.7	1599.6	1461.0	1242.7	1171.3	1112.6
77.5°	953.0	831.3	848.1	923.6	974.0	1162.9	1423.2	1322.5	1125.2	1028.6	1003.4
80°	701.1	633.9	701.1	772.5	810.3	1024.4	1297.3	1146.1	948.8	839.7	818.7
82.5°	499.6	461.8	541.6	587.8	604.6	848.1	1167.1	915.2	717.9	575.2	529.0
85°	285.5	281.3	365.3	361.1	373.7	495.4	768.3	608.8	461.8	352.7	344.3
87.5°	125.9	138.5	184.7	146.9	155.3	235.1	327.5	226.7	188.9	105.0	79.8
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)