

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: P478338

Luminaire Tested: **IFLD-L-SA7B-830-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478338  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-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**

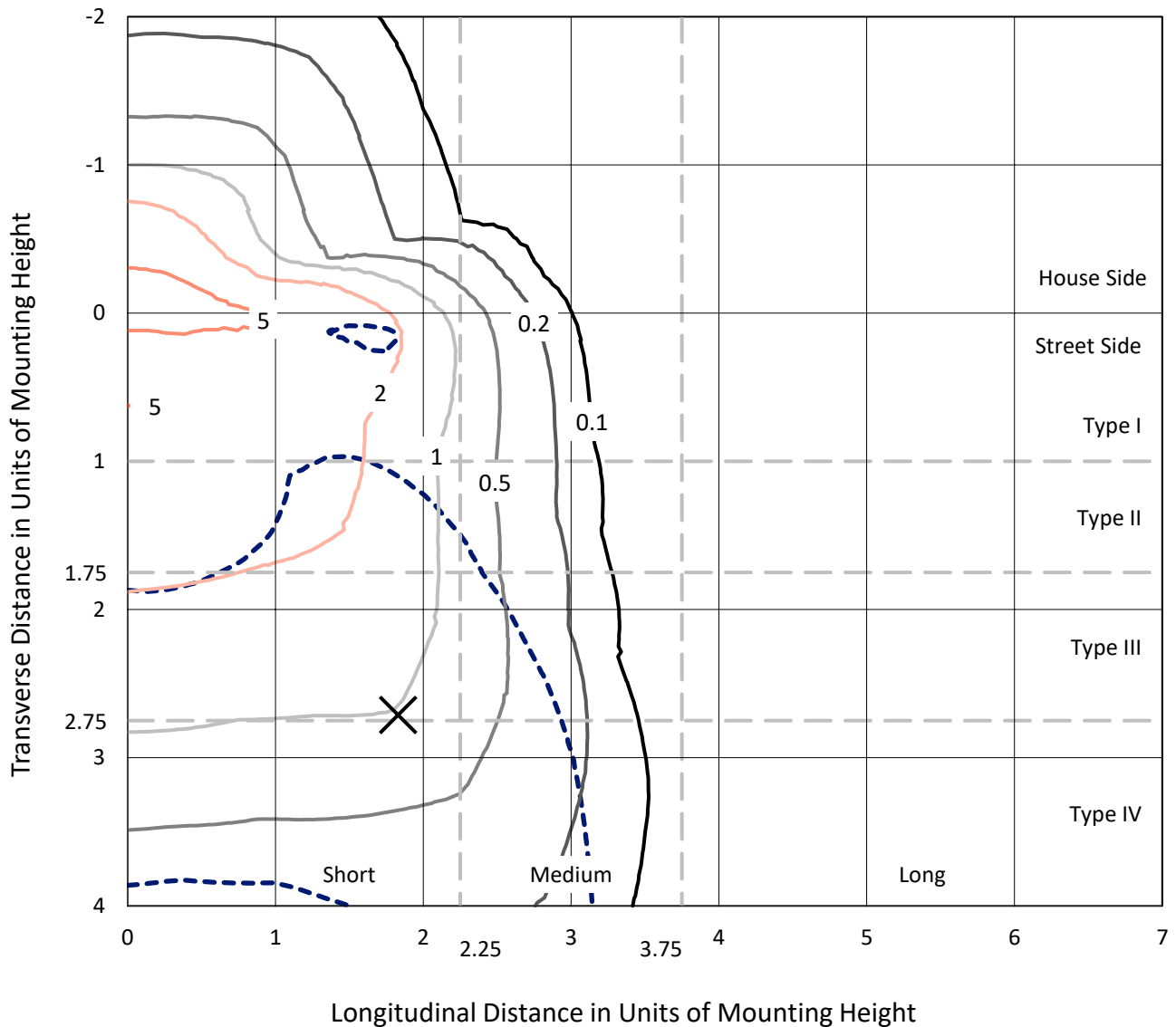
Lumens per Lamp: N/A  
Luminaire Lumens: 28990.4 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 281  
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

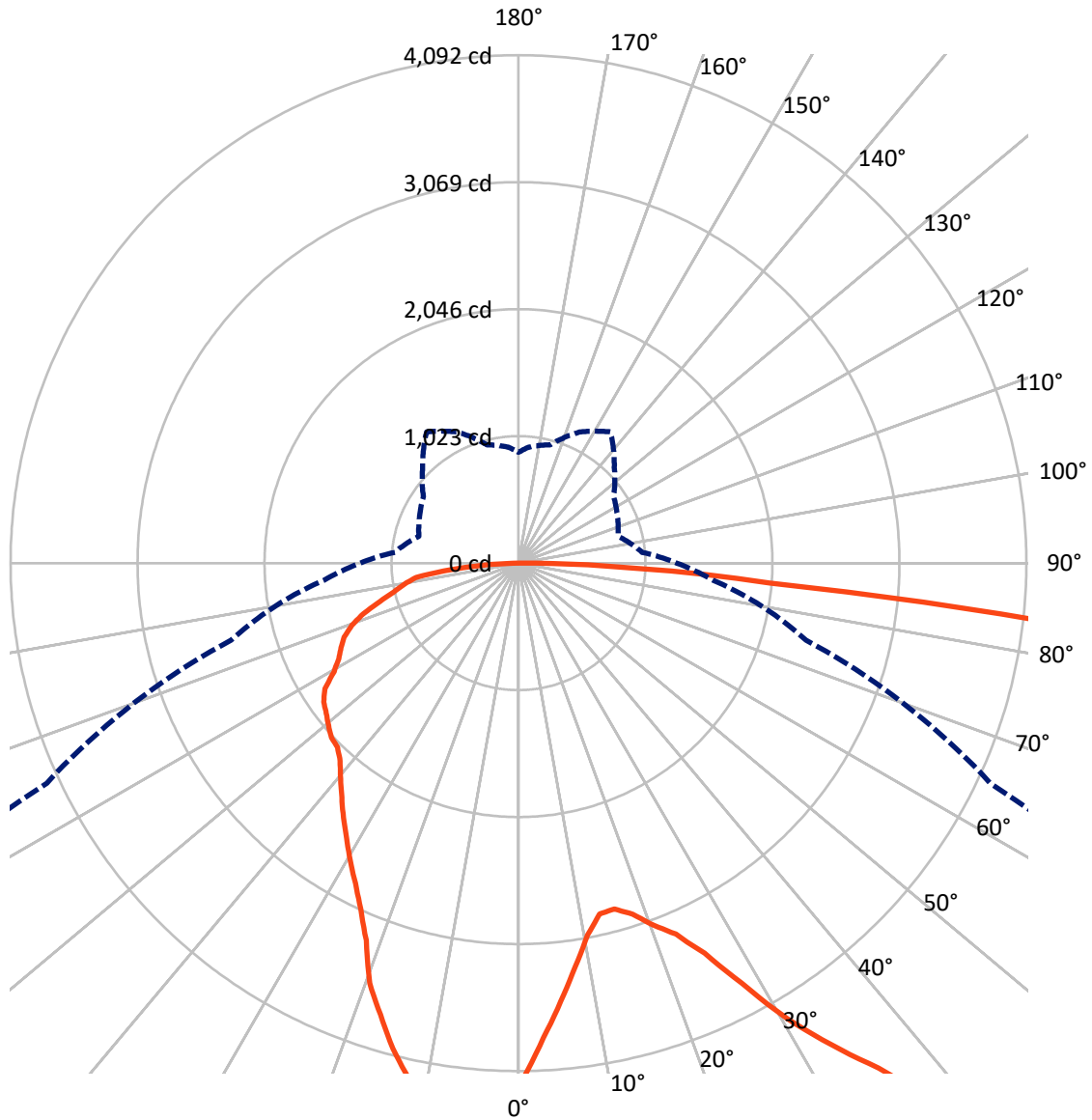
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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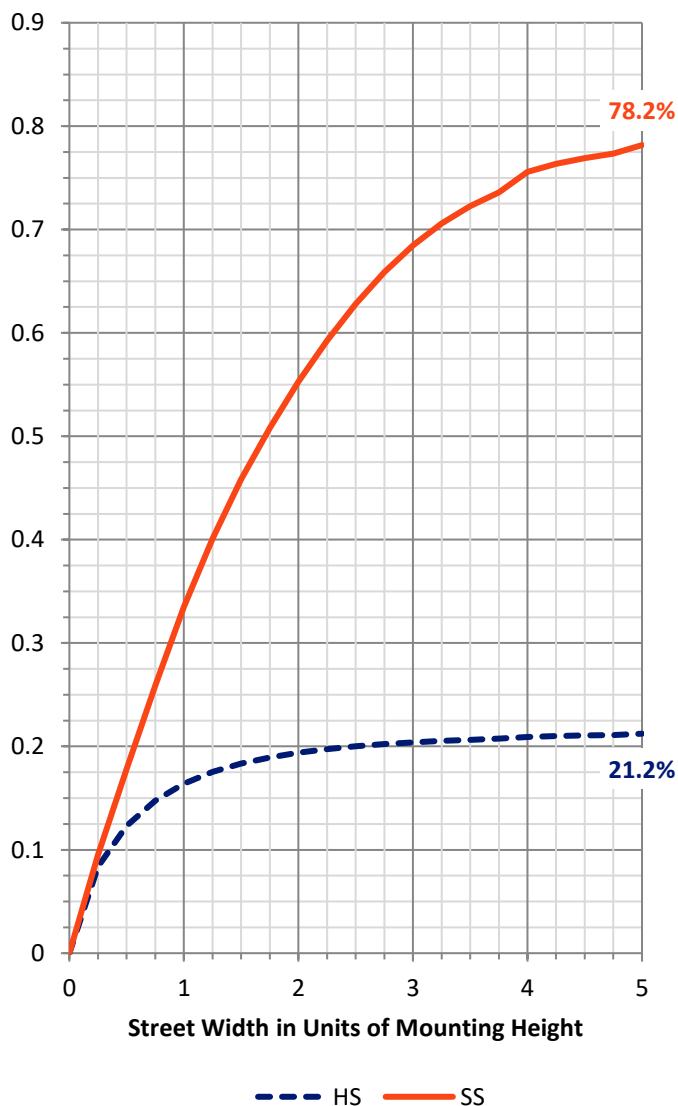
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6262.3	0.0	6262.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	22728.1	0.0	22728.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	28990.4	0.0	28990.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.6	1.3
10°-20°	1073.5	3.7
20°-30°	1766.9	6.1
30°-40°	2642.4	9.1
40°-50°	3917.2	13.5
50°-60°	5645.1	19.5
60°-70°	7203.9	24.8
70°-80°	5605.8	19.3
80°-90°	752.1	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°	28990.4	100.0
0°-180°	28990.4	100.0

**Coefficient of Utilization**



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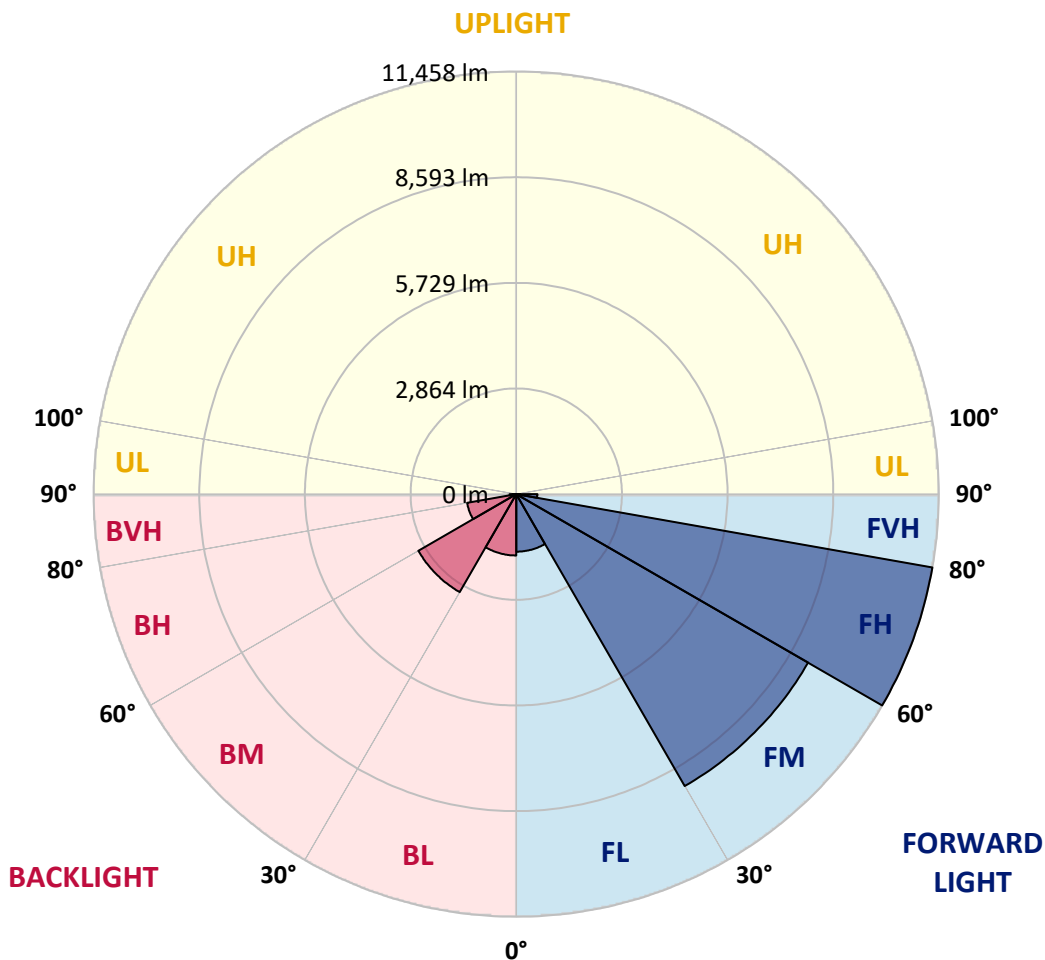
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.2	5.4			
FM (30°-60°)	9138.0	31.5			
FH (60°-80°)	11457.5	39.5			G4/12000
FVH (80°-90°)	572.4	2.0			G4/750
BL (0°-30°)	1663.8	5.7	B3/2500		
BM (30°-60°)	3066.7	10.6	B3/5000		
BH (60°-80°)	1352.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	179.6	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°	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2
2.5°	3724.1	3736.3	3776.2	3785.4	3828.3	3803.7	3855.9	3947.8	3999.9	4076.5	4168.5
5°	3429.8	3377.7	3402.2	3497.2	3546.3	3558.5	3613.7	3770.0	3868.1	3981.5	4153.2
7.5°	3083.5	3074.3	3123.3	3184.6	3282.7	3291.9	3414.5	3552.4	3754.7	4006.0	4208.3
10°	2847.4	2887.3	2914.9	2979.2	3046.7	3046.7	3203.0	3442.1	3671.9	3914.1	4220.6
12.5°	2835.2	2810.7	2816.8	2850.5	2899.6	2960.9	3108.0	3322.5	3613.7	3895.7	4272.7
15°	2875.0	2884.2	2829.1	2872.0	2890.4	2911.8	3074.3	3316.4	3576.9	3960.1	4361.6
17.5°	3086.5	3034.4	2948.6	2908.7	2973.1	2973.1	3083.5	3273.5	3583.1	3993.8	4490.3
20°	3252.0	3252.0	3111.0	3068.1	3114.1	3104.9	3181.5	3322.5	3613.7	4061.2	4634.4
22.5°	3531.0	3570.8	3337.9	3249.0	3245.9	3270.4	3337.9	3457.4	3699.5	4156.2	4772.3
25°	3932.5	3941.7	3671.9	3580.0	3481.9	3521.8	3534.0	3653.6	3776.2	4266.6	4928.6
27.5°	4380.0	4373.8	4125.6	3895.7	3831.3	3840.5	3773.1	3852.8	3889.6	4300.3	5152.4
30°	4876.5	4821.3	4634.4	4309.5	4257.4	4199.1	4052.0	4049.0	4125.6	4490.3	5461.9
32.5°	5201.4	5130.9	5002.2	4769.2	4625.2	4631.3	4398.4	4395.3	4327.9	4698.7	5731.7
35°	5520.2	5412.9	5379.2	5140.1	4996.1	5011.4	4824.4	4799.9	4677.3	5014.4	6176.1
37.5°	5903.3	5808.3	5860.4	5679.6	5501.8	5428.2	5342.4	5311.8	5152.4	5458.9	6783.0
40°	6326.3	6295.6	6261.9	6173.0	6065.8	6071.9	5979.9	5949.3	5713.3	5995.3	7365.4
42.5°	6896.4	6779.9	6605.2	6663.5	6718.6	6776.9	6746.2	6666.5	6421.3	6540.9	8015.1
45°	7426.7	7273.4	6951.6	6970.0	7196.8	7242.8	7613.6	7604.4	7111.0	7233.6	8753.8
47.5°	7785.3	7714.8	7521.7	7500.2	7825.1	7822.0	8490.2	8490.2	7837.4	7923.2	9547.7
50°	8318.6	8134.7	8051.9	8159.2	8324.7	8438.1	9385.2	9443.5	8551.5	8643.5	10586.7
52.5°	8943.9	8714.0	8505.6	8781.4	9075.7	9149.2	10271.0	10246.5	9100.2	9480.2	11803.6
55°	9461.9	9345.4	9201.3	9360.7	9841.9	9933.9	11159.9	10933.1	9648.8	10173.0	12389.0
57.5°	10065.7	10136.2	10166.8	10127.0	10700.1	10844.2	12174.4	11524.6	10120.8	10638.8	12732.3
60°	10976.0	11018.9	11058.8	11153.8	11760.7	11963.0	12977.5	12266.4	10418.2	10908.6	12759.9
62.5°	12361.4	12195.9	12284.8	12612.7	13100.1	13330.0	14160.6	12787.5	10645.0	11071.0	11858.7
65°	13946.0	13722.3	13630.3	14053.3	15316.1	15132.2	15638.0	13176.7	10317.0	10464.1	10056.5
67.5°	15552.1	15576.7	15340.7	16189.7	17737.5	17737.5	17011.1	13363.7	9428.1	8481.0	7052.7
70°	16827.2	16903.8	17032.6	18678.5	21130.6	21501.4	18712.2	12597.4	7616.7	5645.9	3855.9
72.5°	16808.8	16578.9	17237.9	20269.3	24214.0	23904.4	19067.8	9961.5	4753.9	2764.7	1768.5
73°	16431.8	16238.7	16959.0	20254.0	24339.7	24048.5	18807.2	9182.9	4193.0	2396.9	1572.4
75°	13418.9	13069.4	14295.5	18344.4	22519.0	22742.8	15978.2	5989.1	2298.8	1477.4	1106.5
77.5°	6117.9	6271.1	7868.0	12306.2	17354.4	17618.0	10504.0	2590.0	1259.7	1036.0	815.3
80°	1964.7	2062.8	3062.0	6117.9	10877.9	11353.0	4855.1	1177.0	898.1	793.9	609.9
82.5°	750.9	747.9	1284.3	2544.0	5155.4	5458.9	1774.7	717.2	668.2	585.4	432.2
85°	263.6	275.9	484.3	1005.3	2029.1	2124.1	616.1	398.5	462.8	392.3	248.3
87.5°	92.0	95.0	171.6	364.7	698.8	738.7	171.6	159.4	229.9	226.8	125.7
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°	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2	4156.2
2.5°	4199.1	4226.7	4235.9	4346.3	4346.3	4346.3	4389.2	4389.2	4376.9	4346.3	4419.8
5°	4217.5	4266.6	4361.6	4456.6	4481.1	4502.6	4560.8	4511.8	4530.2	4499.5	4527.1
7.5°	4269.6	4337.1	4514.8	4573.1	4533.2	4579.2	4517.9	4484.2	4450.5	4462.7	4419.8
10°	4358.5	4444.3	4527.1	4634.4	4557.8	4511.8	4386.1	4355.5	4248.2	4211.4	4245.1
12.5°	4468.9	4573.1	4714.1	4674.2	4527.1	4395.3	4260.4	4131.7	4067.3	3975.4	3999.9
15°	4579.2	4698.7	4720.2	4652.8	4468.9	4303.4	4058.1	3877.3	3812.9	3730.2	3773.1
17.5°	4698.7	4812.2	4775.4	4600.7	4352.4	4101.1	3822.1	3644.4	3509.5	3457.4	3457.4
20°	4876.5	4931.7	4873.5	4514.8	4211.4	3880.4	3610.6	3408.4	3273.5	3252.0	3218.3
22.5°	5014.4	5103.3	4842.8	4389.2	4006.0	3592.3	3282.7	3206.1	3166.2	3132.5	3089.6
25°	5192.2	5189.2	4787.6	4272.7	3653.6	3249.0	3062.0	3055.9	3037.5	3025.2	3083.5
27.5°	5360.8	5290.3	4723.3	3984.6	3288.8	2988.4	2887.3	2954.7	2982.3	2963.9	2988.4
30°	5627.5	5511.0	4631.3	3678.1	2967.0	2724.8	2743.2	2835.2	2881.2	2908.7	2872.0
32.5°	5909.4	5731.7	4441.3	3359.3	2681.9	2559.3	2602.2	2697.3	2752.4	2783.1	2816.8
35°	6317.1	5903.3	4248.2	2942.5	2476.6	2458.2	2482.7	2534.8	2614.5	2636.0	2645.2
37.5°	6819.8	6163.8	3987.7	2608.4	2317.2	2338.6	2363.2	2381.6	2384.6	2424.5	2409.1
40°	7322.4	6384.5	3607.6	2289.6	2151.7	2268.1	2255.9	2222.2	2194.6	2157.8	2148.6
42.5°	7763.8	6577.6	3184.6	2019.9	2004.6	2194.6	2154.7	2068.9	2004.6	1977.0	1931.0
45°	8260.4	6850.4	2758.6	1851.3	1891.1	2105.7	2093.4	1961.6	1878.9	1780.8	1768.5
47.5°	8904.0	7135.5	2350.9	1676.6	1783.9	2072.0	2078.1	1909.5	1790.0	1658.2	1639.8
50°	9728.5	7546.2	2041.3	1603.0	1719.5	2022.9	2032.1	1839.0	1682.7	1547.9	1535.6
52.5°	10519.3	7966.1	1783.9	1489.6	1676.6	1964.7	1986.2	1774.7	1593.8	1425.3	1434.5
55°	10917.8	7812.9	1563.2	1406.9	1578.5	1869.7	1949.4	1728.7	1459.0	1342.5	1339.4
57.5°	11006.7	7435.8	1388.5	1321.0	1495.8	1768.5	1888.1	1590.8	1397.7	1299.6	1287.3
60°	10715.5	6776.9	1250.5	1229.1	1391.5	1664.3	1747.1	1517.2	1336.4	1256.7	1238.3
62.5°	9998.2	6093.4	1155.5	1186.2	1302.7	1550.9	1658.2	1465.1	1278.1	1223.0	1183.1
65°	8199.1	5011.4	1078.9	1103.4	1210.7	1440.6	1603.0	1406.9	1226.0	1173.9	1170.9
67.5°	5679.6	3454.3	1017.6	1063.6	1137.1	1360.9	1547.9	1342.5	1158.6	1140.2	1115.7
70°	2908.7	1842.1	937.9	974.7	1057.4	1259.7	1449.8	1275.1	1088.1	1085.0	1054.4
72.5°	1474.3	1078.9	846.0	901.1	959.4	1127.9	1327.2	1186.2	999.2	965.5	916.5
73°	1275.1	999.2	830.6	879.7	934.8	1091.2	1290.4	1164.7	987.0	937.9	891.9
75°	928.7	787.7	744.8	793.9	836.8	983.9	1167.8	1066.6	907.3	855.2	812.2
77.5°	695.8	606.9	619.1	674.3	711.1	849.0	1039.1	965.5	821.4	750.9	732.6
80°	511.9	462.8	511.9	564.0	591.6	747.9	947.1	836.8	692.7	613.0	597.7
82.5°	364.7	337.2	395.4	429.1	441.4	619.1	852.1	668.2	524.1	419.9	386.2
85°	208.4	205.4	266.7	263.6	272.8	361.7	560.9	444.4	337.2	257.5	251.3
87.5°	92.0	101.1	134.9	107.3	113.4	171.6	239.1	165.5	137.9	76.6	58.2
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)