

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: P476546

Luminaire Tested: **IFLD-L-SA7D-730-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476546  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

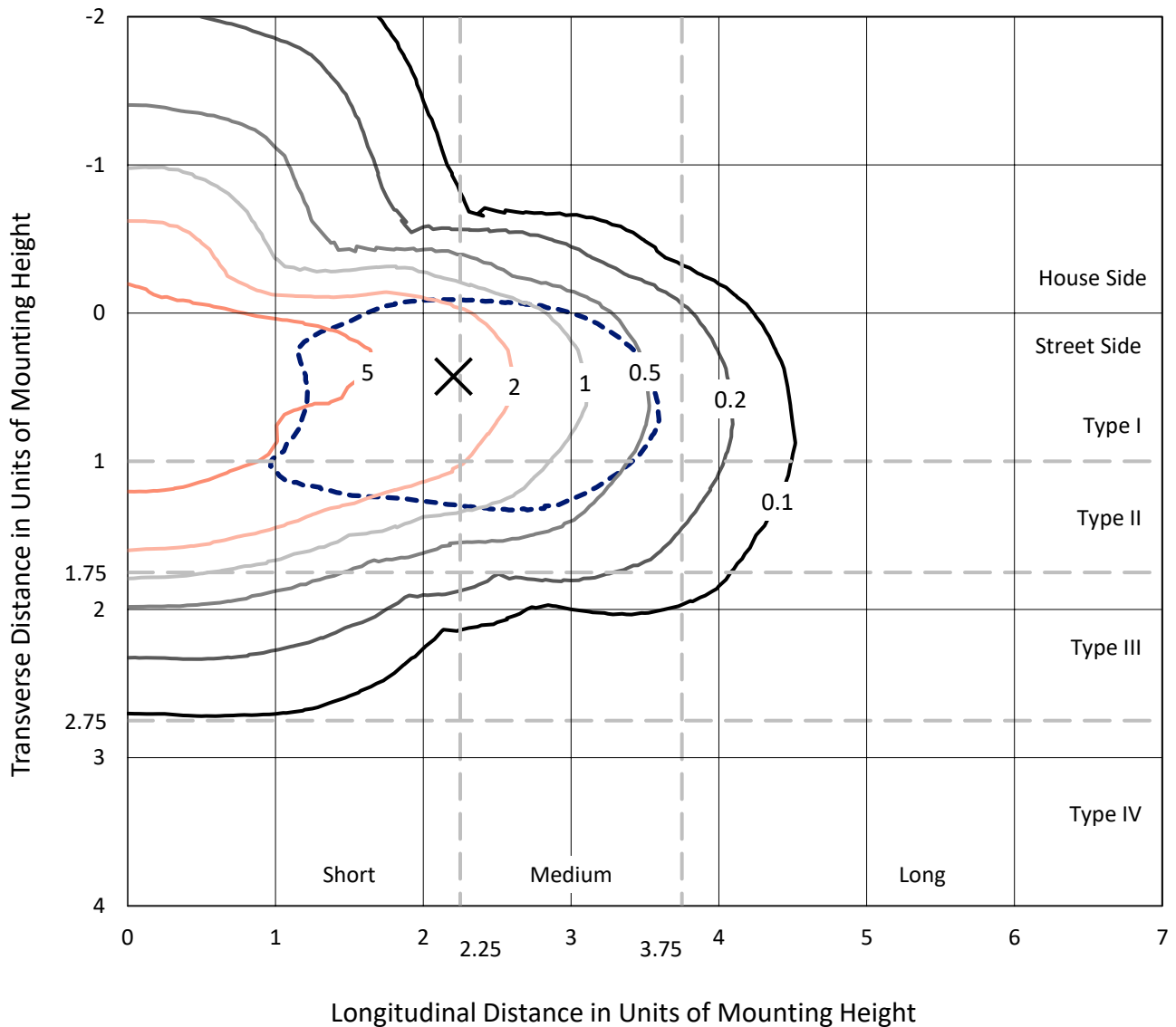
Lumens per Lamp: N/A  
Luminaire Lumens: 44364.6 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

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

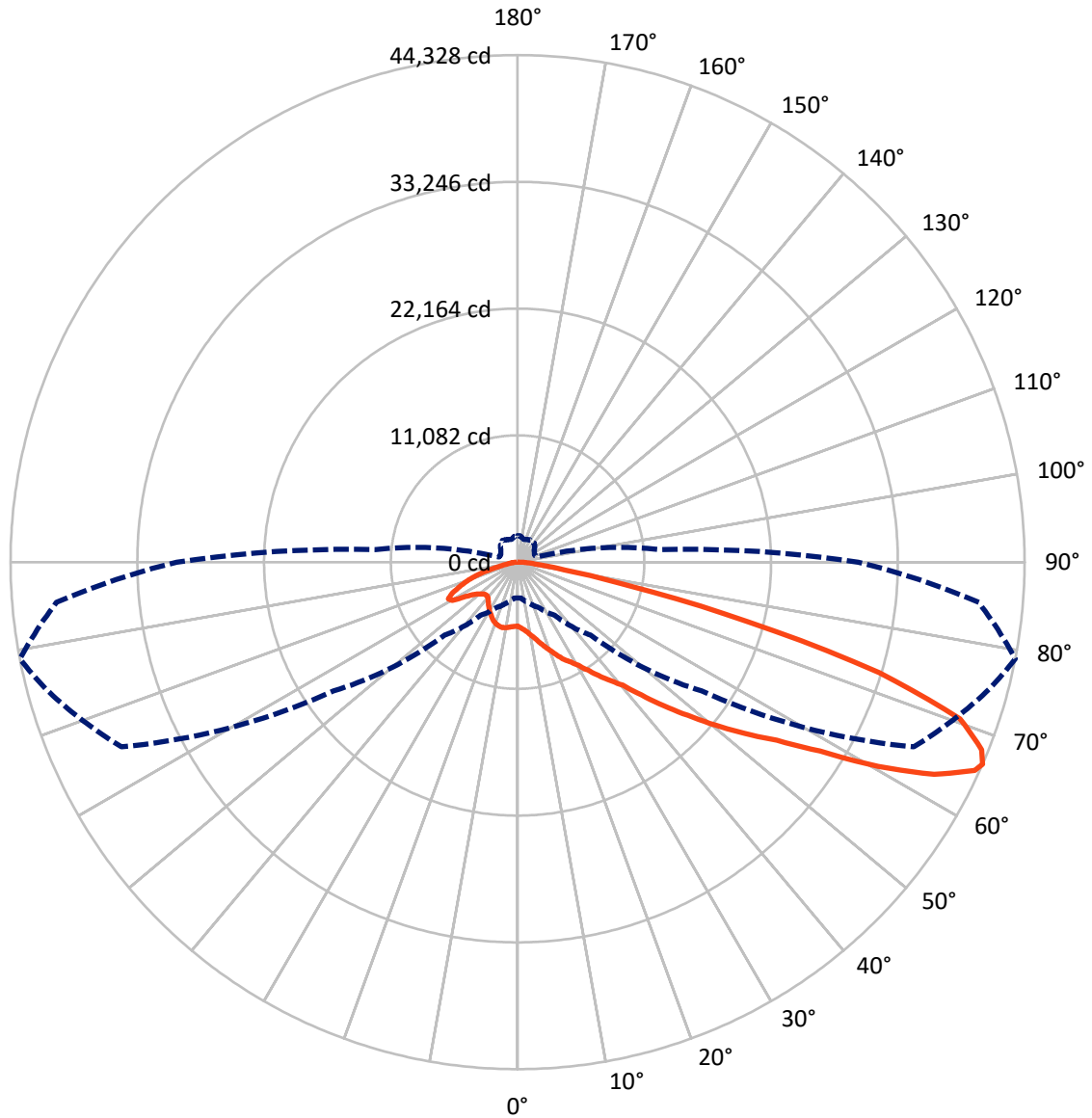
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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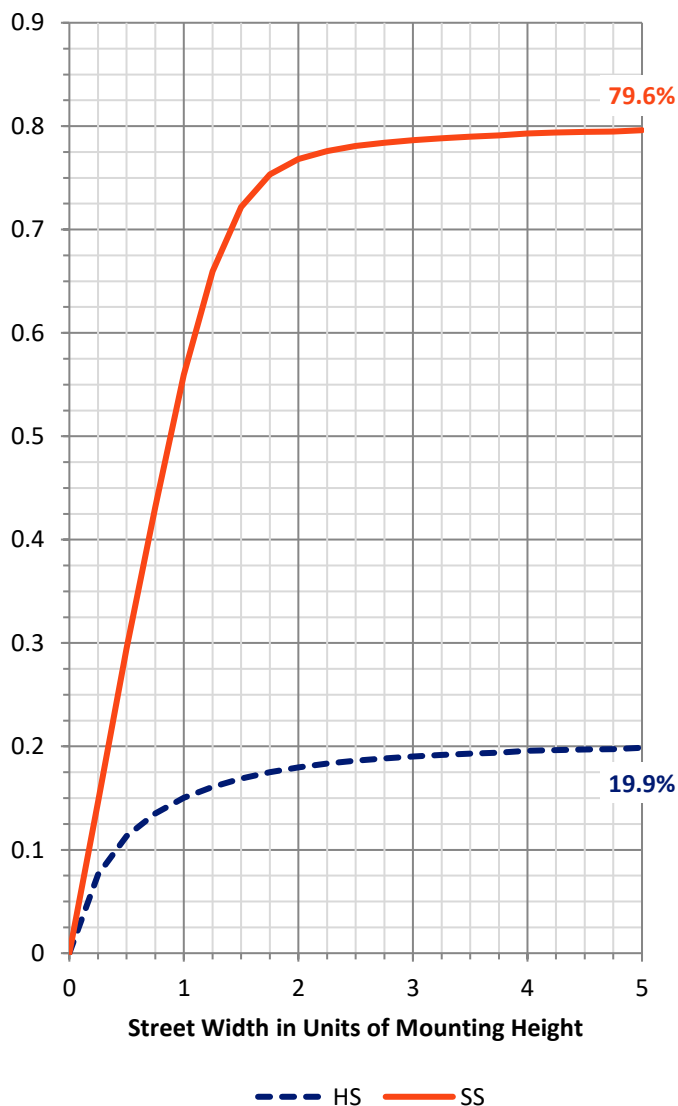
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8958.8	0.0	8958.8
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	35405.8	0.0	35405.8
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	44364.6	0.0	44364.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.8	1.2
10°-20°	1701.0	3.8
20°-30°	2919.8	6.6
30°-40°	4510.5	10.2
40°-50°	7224.7	16.3
50°-60°	10786.9	24.3
60°-70°	11083.6	25.0
70°-80°	4913.2	11.1
80°-90°	674.1	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°	44364.6	100.0
0°-180°	44364.6	100.0



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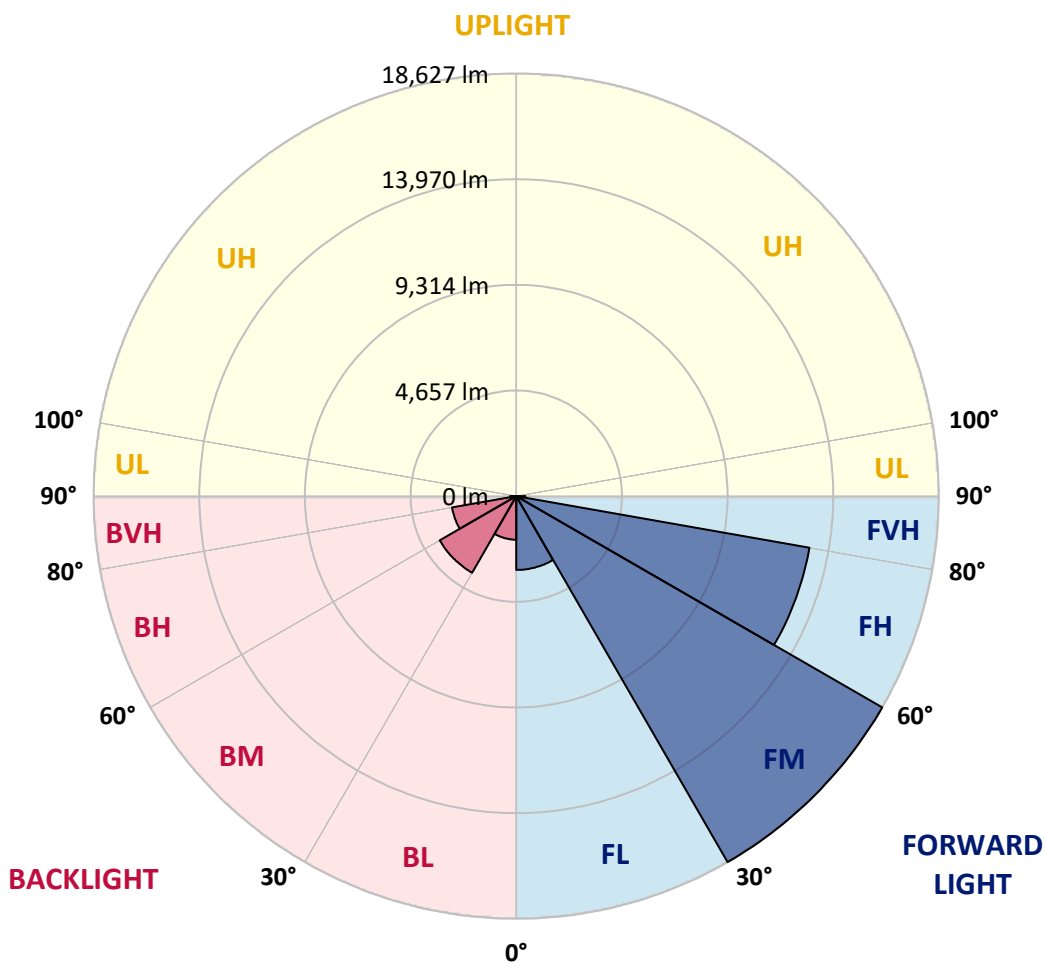
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.2	7.3			
FM (30°-60°)	18627.2	42.0			
FH (60°-80°)	13122.1	29.6			G5
FVH (80°-90°)	404.3	0.9			G3/500
BL (0°-30°)	1919.4	4.3	B3/2500		
BM (30°-60°)	3894.9	8.8	B3/5000		
BH (60°-80°)	2874.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	269.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0
2.5°	5958.2	5963.1	5963.1	5943.6	5948.5	5963.1	5909.4	5792.3	5792.3	5772.8	5738.7
5°	6324.2	6299.8	6265.7	6270.6	6251.0	6251.0	6192.5	6080.2	5982.6	5943.6	5841.1
7.5°	6373.0	6397.4	6392.5	6451.1	6480.4	6480.4	6509.7	6416.9	6270.6	6177.8	6075.4
10°	6470.6	6407.2	6402.3	6538.9	6582.9	6685.3	6802.5	6753.7	6631.7	6499.9	6363.3
12.5°	6529.2	6568.2	6568.2	6636.5	6739.0	6890.3	7095.2	7188.0	6997.6	6861.0	6651.2
15°	6617.0	6563.3	6719.5	6778.1	6973.2	7080.6	7373.4	7612.5	7485.6	7319.7	6987.9
17.5°	6656.1	6621.9	6709.7	6817.1	7148.9	7310.0	7666.2	7998.0	7890.7	7783.3	7441.7
20°	6856.1	6851.3	6890.3	6978.1	7217.2	7534.4	7978.5	8437.2	8476.2	8281.0	7817.5
22.5°	7344.1	7280.7	7280.7	7246.5	7349.0	7675.9	8276.2	8910.5	9086.2	8856.9	8242.0
25°	7793.1	7880.9	7827.2	7671.1	7632.0	7802.8	8490.9	9413.2	9647.4	9432.7	8817.8
27.5°	8368.9	8398.2	8490.9	8281.0	8012.6	8066.3	8725.1	9696.2	10179.3	9891.4	9144.8
30°	9198.4	9144.8	9125.2	8891.0	8539.7	8466.5	8993.5	10111.0	10877.1	10472.1	9530.3
32.5°	9759.6	9891.4	9886.5	9564.4	9139.9	8978.8	9325.3	10501.3	11623.7	11248.0	10242.7
35°	10872.2	11008.8	10901.5	10428.2	9930.4	9608.3	9803.5	11008.8	12477.7	12184.9	10847.8
37.5°	12292.2	12614.3	12385.0	11511.5	10808.8	10457.4	10467.2	11560.3	13351.2	13112.0	11496.8
40°	13273.1	13707.4	13390.2	12570.4	11823.8	11491.9	11360.2	12214.2	14395.4	14141.7	12511.8
42.5°	14488.2	14849.3	14683.3	13873.3	12999.8	12716.8	12453.3	13307.2	15991.1	15874.0	13814.7
45°	15815.5	15986.3	15932.6	15420.2	14449.1	14351.5	13770.8	14746.8	17869.9	17918.7	15444.6
47.5°	17050.1	17142.8	17245.2	16874.4	16269.3	16352.2	15288.4	16288.8	19694.9	20017.0	17259.9
50°	17367.2	17684.4	17923.5	18172.4	18304.2	18865.3	16962.2	18182.2	21793.2	22417.8	19280.1
52.5°	17045.2	17020.8	17747.9	18528.6	19846.2	21022.2	19241.1	20534.2	23647.6	24882.1	21129.6
55°	15581.2	15532.4	16703.6	17738.1	20309.8	22222.6	22495.9	23667.1	25887.4	27492.8	23632.9
57.5°	13019.3	12716.8	13995.3	15693.5	19304.5	22354.4	25765.4	28317.5	29332.5	31162.5	27453.8
60°	8749.5	8622.6	9847.5	11872.6	15673.9	20485.4	27722.2	34139.1	34187.9	36247.2	33382.8
62.5°	5387.3	5411.7	6197.4	7715.0	10974.7	16240.0	26878.0	38789.6	38799.4	40863.5	38262.6
65°	3523.2	3537.9	4172.2	5011.6	6856.1	11013.7	22227.5	39155.6	42005.4	43923.2	40497.5
66°	3137.7	3142.6	3689.1	4372.3	5680.1	9013.0	19631.5	38204.0	42727.6	44328.2	40468.3
67.5°	2644.9	2708.3	3147.5	3674.5	4430.9	6475.5	15576.3	35451.8	42356.7	43762.1	39550.8
70°	2069.0	2103.2	2449.7	2986.4	3323.1	3747.7	9257.0	28898.2	38770.1	41049.0	36213.1
72.5°	1659.1	1688.4	1951.9	2425.3	2698.5	2469.2	5040.8	20968.5	30625.7	33055.8	28483.4
75°	1400.5	1405.4	1532.3	1908.0	2220.3	1854.3	2683.9	13458.5	19651.0	20783.1	17450.2
77.5°	1132.1	1151.6	1239.5	1454.2	1786.0	1459.1	1600.6	7539.3	9867.0	9949.9	8066.3
80°	922.3	932.0	985.7	1058.9	1361.5	1078.4	1083.3	3679.4	4230.8	4133.2	3279.2
82.5°	727.1	736.9	800.3	785.6	1000.4	771.0	673.4	1771.4	1947.0	1908.0	1507.9
85°	409.9	409.9	629.5	629.5	634.4	488.0	409.9	834.4	1029.6	961.3	707.6
87.5°	131.8	136.6	190.3	200.1	317.2	219.6	200.1	312.3	488.0	429.4	253.8
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°	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0	5602.0
2.5°	5719.1	5641.1	5606.9	5494.7	5465.4	5392.2	5358.0	5314.1	5299.5	5236.0	5294.6
5°	5763.1	5738.7	5602.0	5460.5	5353.2	5304.4	5231.2	5133.6	5123.8	5036.0	5026.2
7.5°	5948.5	5865.5	5626.4	5475.1	5260.4	5138.4	4977.4	4928.6	4865.2	4835.9	4899.3
10°	6236.4	6026.6	5670.3	5289.7	5026.2	4879.8	4762.7	4728.5	4733.4	4713.9	4684.6
12.5°	6441.3	6241.3	5597.1	5133.6	4792.0	4650.5	4640.7	4674.9	4728.5	4704.1	4738.3
15°	6734.1	6358.4	5543.5	4874.9	4601.7	4562.6	4557.7	4660.2	4655.3	4655.3	4650.5
17.5°	7007.4	6475.5	5348.3	4650.5	4401.6	4430.9	4465.0	4460.1	4508.9	4528.5	4562.6
20°	7353.9	6612.1	5075.0	4426.0	4250.3	4240.6	4235.7	4240.6	4289.4	4318.6	4294.2
22.5°	7656.4	6641.4	4845.6	4211.3	4069.8	4030.7	3967.3	4030.7	4006.3	4016.1	4045.4
25°	7919.9	6646.3	4518.7	4050.2	3889.2	3801.4	3752.6	3747.7	3703.8	3698.9	3698.9
27.5°	8139.5	6480.4	4230.8	3825.8	3674.5	3591.5	3586.7	3533.0	3420.7	3347.5	3357.3
30°	8310.3	6353.5	4030.7	3630.6	3484.2	3469.5	3425.6	3303.6	3157.2	3064.5	3064.5
32.5°	8612.9	6099.8	3757.5	3430.5	3357.3	3337.8	3235.3	3128.0	2991.3	2903.5	2888.8
35°	8837.3	5865.5	3576.9	3259.7	3225.6	3186.5	3098.7	2981.6	2942.5	2923.0	2937.6
37.5°	9091.1	5602.0	3357.3	3113.3	3147.5	3074.3	2971.8	2918.1	3054.8	3020.6	3035.2
40°	9496.1	5416.6	3142.6	3025.5	3059.6	2976.7	2844.9	2825.4	2996.2	2874.2	2844.9
42.5°	10237.8	5411.7	3010.8	2893.7	2918.1	2854.7	2737.6	2727.8	2796.1	2649.7	2605.8
45°	11160.1	5582.5	2913.2	2796.1	2776.6	2766.9	2727.8	2683.9	2625.3	2435.0	2386.2
47.5°	12263.0	5860.7	2893.7	2649.7	2674.1	2757.1	2708.3	2596.1	2444.8	2322.8	2298.4
50°	13600.0	6436.5	2844.9	2542.4	2586.3	2718.1	2679.0	2522.9	2386.2	2308.1	2293.5
52.5°	15078.6	7163.6	2781.5	2376.5	2474.1	2683.9	2703.4	2557.0	2356.9	2288.6	2278.9
55°	16820.7	8237.1	2708.3	2195.9	2342.3	2649.7	2703.4	2459.4	2317.9	2317.9	2308.1
57.5°	20261.0	10169.5	2557.0	2030.0	2225.2	2586.3	2625.3	2464.3	2322.8	2322.8	2303.3
60°	25306.7	13185.2	2269.1	1903.1	2113.0	2498.5	2566.8	2391.1	2269.1	2298.4	2293.5
62.5°	29254.5	14102.6	2025.1	1781.1	2000.7	2337.4	2488.7	2313.0	2205.7	2313.0	2322.8
65°	30098.7	13175.5	1776.3	1649.4	1844.6	2181.3	2376.5	2200.8	2113.0	2322.8	2332.5
66°	29796.1	12453.3	1688.4	1610.3	1776.3	2103.2	2308.1	2161.8	2064.2	2313.0	2317.9
67.5°	28449.3	11370.0	1590.8	1527.4	1683.5	1991.0	2230.1	2108.1	1986.1	2283.8	2239.8
70°	25521.4	9642.5	1424.9	1381.0	1551.8	1805.5	2049.5	1971.4	1864.1	2103.2	2025.1
72.5°	19655.9	7705.2	1249.2	1254.1	1400.5	1615.2	1869.0	1815.3	1722.6	1844.6	1795.8
75°	11970.2	4923.7	1088.2	1098.0	1220.0	1434.7	1698.2	1659.1	1546.9	1615.2	1590.8
77.5°	5304.4	2439.9	917.4	936.9	1034.5	1263.9	1478.6	1415.1	1298.0	1312.7	1302.9
80°	2059.3	1156.5	746.6	771.0	834.4	1010.1	1224.8	1166.3	1063.8	1044.3	1034.5
82.5°	990.6	644.1	575.8	585.6	610.0	805.2	1054.0	980.8	844.2	756.4	756.4
85°	497.7	400.1	405.0	370.9	405.0	546.5	712.5	595.3	492.9	439.2	448.9
87.5°	200.1	200.1	200.1	170.8	180.6	258.6	331.8	224.5	205.0	122.0	122.0
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)