

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: P476770

Luminaire Tested: **IFLD-S-SA6D-830-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476770  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-830-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

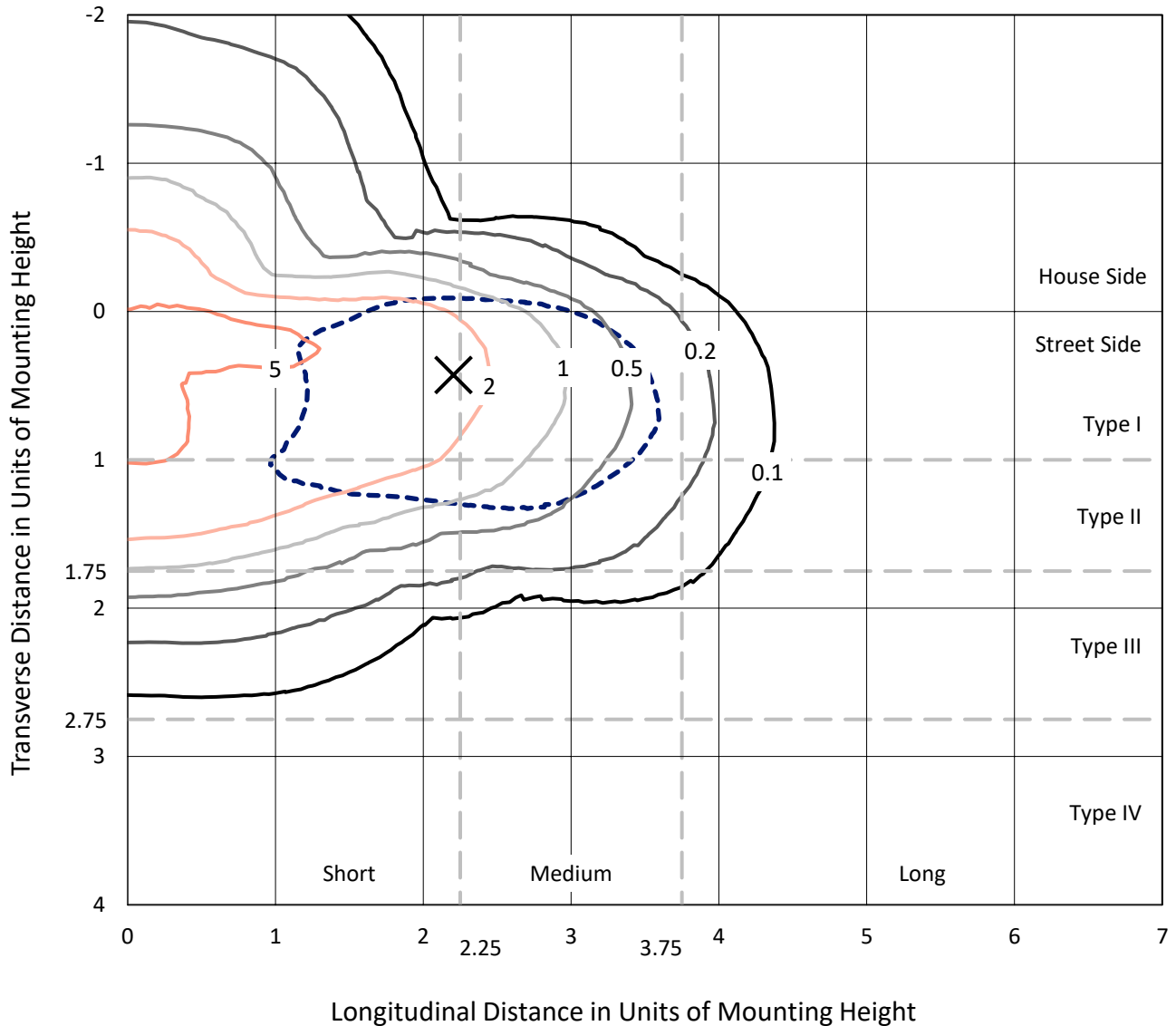
Lumens per Lamp: N/A  
Luminaire Lumens: 36286.7 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

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

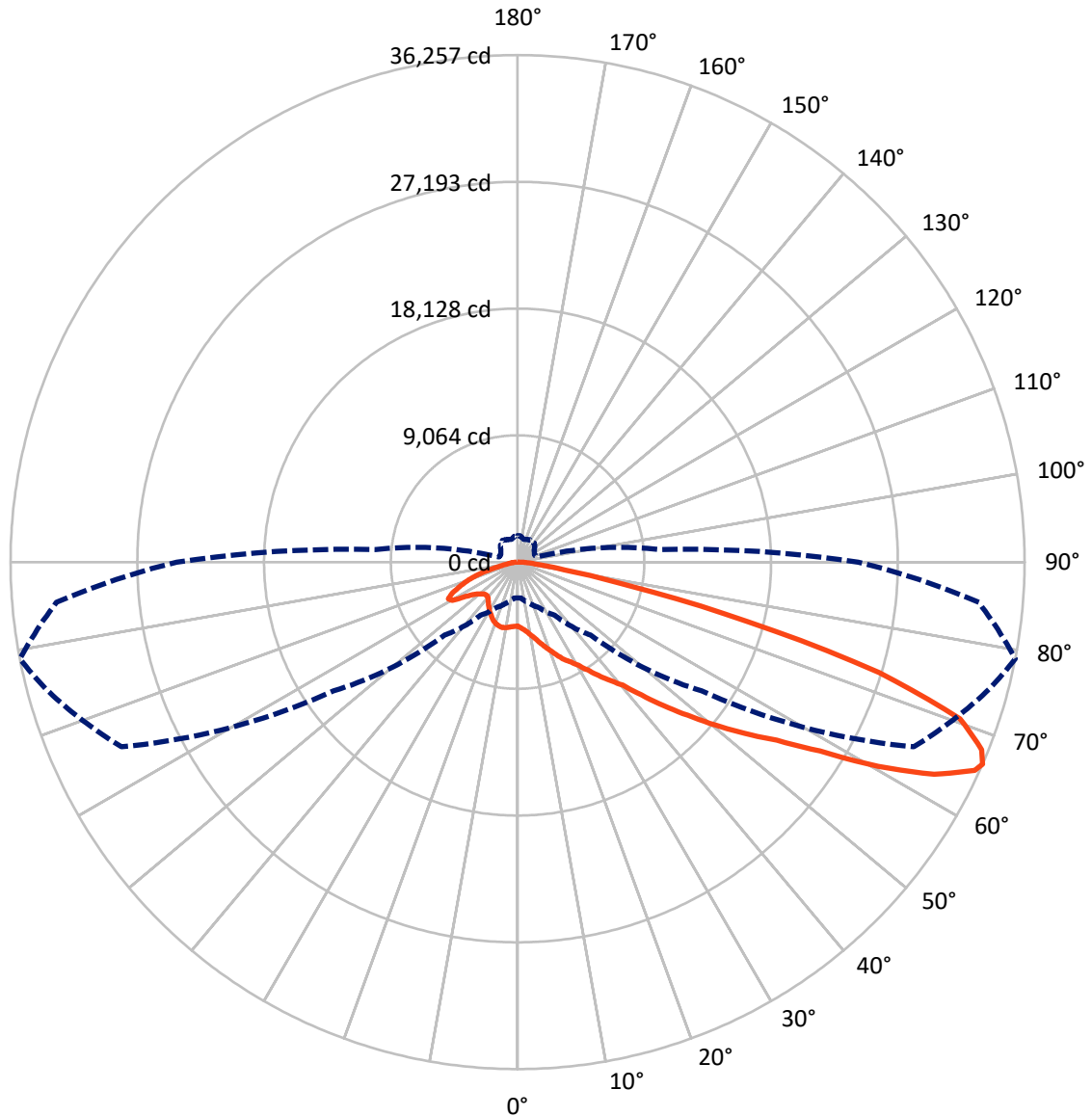
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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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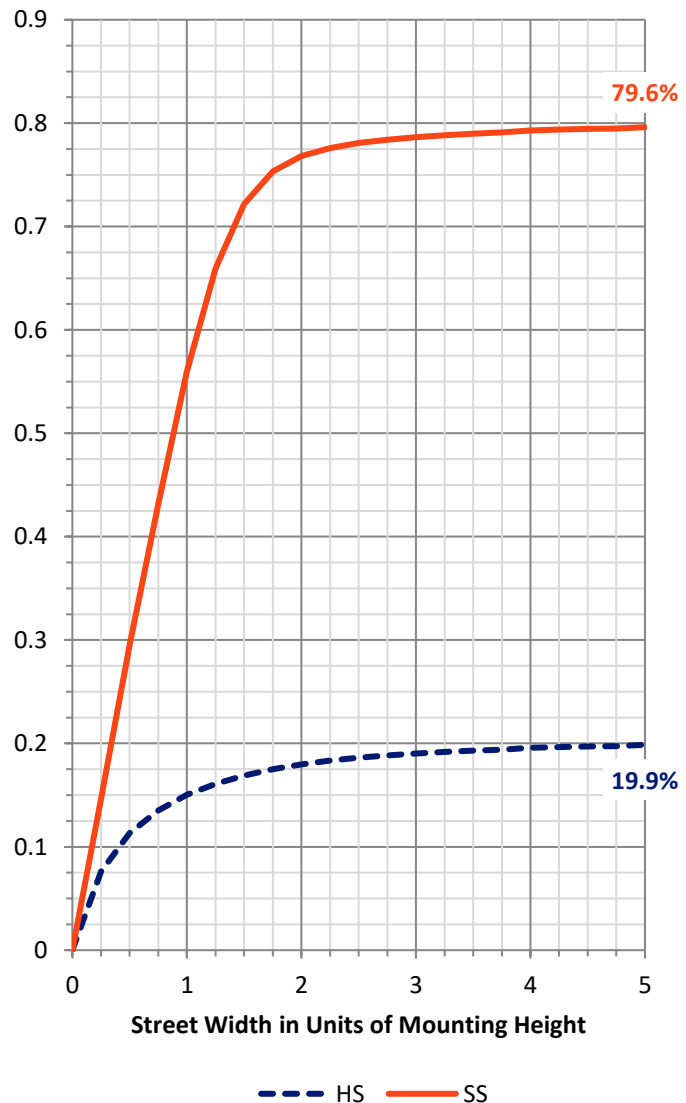
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7327.6	0.0	7327.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	28959.1	0.0	28959.1
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	36286.7	0.0	36286.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.5	1.2
10°-20°	1391.3	3.8
20°-30°	2388.2	6.6
30°-40°	3689.2	10.2
40°-50°	5909.2	16.3
50°-60°	8822.9	24.3
60°-70°	9065.5	25.0
70°-80°	4018.6	11.1
80°-90°	551.4	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°	36286.7	100.0
0°-180°	36286.7	100.0

**Coefficient of Utilization**



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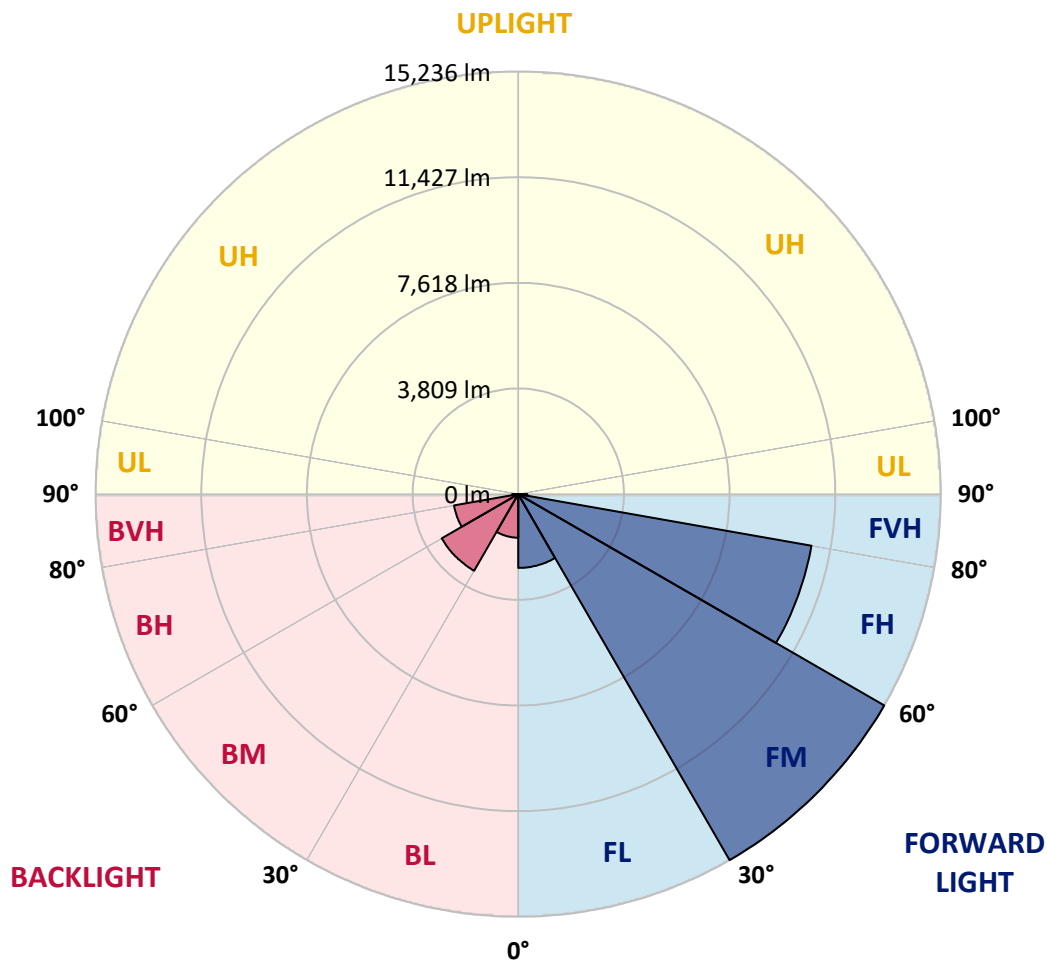
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2660.0	7.3			
FM (30°-60°)	15235.6	42.0			
FH (60°-80°)	10732.8	29.6			G4/12000
FVH (80°-90°)	330.7	0.9			G3/500
BL (0°-30°)	1569.9	4.3	B3/2500		
BM (30°-60°)	3185.7	8.8	B3/5000		
BH (60°-80°)	2351.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	220.7	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°	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0
2.5°	4873.4	4877.4	4877.4	4861.4	4865.4	4877.4	4833.5	4737.7	4737.7	4721.7	4693.8
5°	5172.7	5152.8	5124.8	5128.8	5112.8	5112.8	5065.0	4973.2	4893.3	4861.4	4777.6
7.5°	5212.6	5232.6	5228.6	5276.5	5300.4	5300.4	5324.4	5248.6	5128.8	5053.0	4969.2
10°	5292.5	5240.6	5236.6	5348.3	5384.3	5468.1	5563.9	5524.0	5424.2	5316.4	5204.6
12.5°	5340.4	5372.3	5372.3	5428.2	5512.0	5635.7	5803.3	5879.2	5723.5	5611.8	5440.1
15°	5412.2	5368.3	5496.0	5543.9	5703.6	5791.4	6030.8	6226.4	6122.6	5986.9	5715.5
17.5°	5444.1	5416.2	5488.0	5575.8	5847.2	5979.0	6270.3	6541.7	6453.9	6366.1	6086.7
20°	5607.8	5603.8	5635.7	5707.6	5903.1	6162.6	6525.8	6900.9	6932.9	6773.2	6394.1
22.5°	6006.9	5955.0	5955.0	5927.1	6010.9	6278.3	6769.2	7288.1	7431.8	7244.2	6741.3
25°	6374.1	6445.9	6402.0	6274.3	6242.4	6382.1	6944.9	7699.2	7890.8	7715.2	7212.3
27.5°	6845.1	6869.0	6944.9	6773.2	6553.7	6597.6	7136.4	7930.7	8325.8	8090.4	7479.7
30°	7523.6	7479.7	7463.7	7272.1	6984.8	6924.9	7356.0	8270.0	8896.6	8565.3	7795.0
32.5°	7982.6	8090.4	8086.4	7822.9	7475.7	7344.0	7627.4	8589.3	9507.3	9199.9	8377.7
35°	8892.6	9004.4	8916.6	8529.4	8122.3	7858.9	8018.5	9004.4	10205.7	9966.3	8872.6
37.5°	10054.1	10317.5	10129.9	9415.5	8840.7	8553.3	8561.3	9455.4	10920.2	10724.6	9403.5
40°	10856.3	11211.5	10952.1	10281.6	9670.9	9399.5	9291.7	9990.2	11774.3	11566.8	10233.7
42.5°	11850.2	12145.5	12009.8	11347.3	10632.8	10401.3	10185.8	10884.3	13079.5	12983.7	11299.4
45°	12935.8	13075.5	13031.6	12612.5	11818.2	11738.4	11263.4	12061.7	14616.1	14656.0	12632.4
47.5°	13945.6	14021.4	14105.2	13801.9	13307.0	13374.8	12504.7	13322.9	16108.9	16372.3	14117.2
50°	14205.0	14464.5	14660.0	14863.6	14971.3	15430.3	13873.7	14871.6	17825.1	18336.0	15769.6
52.5°	13941.6	13921.6	14516.3	15154.9	16232.6	17194.5	15737.7	16795.4	19341.8	20351.6	17282.3
55°	12744.2	12704.3	13662.2	14508.4	16611.8	18176.4	18399.9	19357.8	21173.8	22487.0	19329.8
57.5°	10648.8	10401.3	11447.0	12836.0	15789.6	18284.1	21074.0	23161.5	23991.7	25488.4	22455.0
60°	7156.4	7052.6	8054.4	9710.8	12820.0	16755.5	22674.5	27923.1	27963.0	29647.3	27304.5
62.5°	4406.4	4426.3	5068.9	6310.2	8976.4	13283.0	21984.1	31726.8	31734.8	33423.1	31295.7
65°	2881.7	2893.7	3412.6	4099.1	5607.8	9008.4	18180.4	32026.2	34357.1	35925.6	33123.8
66°	2566.4	2570.4	3017.4	3576.2	4645.9	7371.9	16057.0	31247.9	34947.8	36256.9	33099.8
67.5°	2163.3	2215.2	2574.4	3005.4	3624.1	5296.4	12740.2	28996.8	34644.4	35793.9	32349.4
70°	1692.3	1720.2	2003.6	2442.7	2718.1	3065.3	7571.5	23636.5	31710.8	33574.8	29619.4
72.5°	1357.0	1381.0	1596.5	1983.7	2207.2	2019.6	4123.0	17150.6	25049.4	27037.0	23297.2
75°	1145.5	1149.5	1253.3	1560.6	1816.0	1516.7	2195.2	11008.0	16072.9	16998.9	14272.9
77.5°	926.0	941.9	1013.8	1189.4	1460.8	1193.4	1309.1	6166.6	8070.4	8138.3	6597.6
80°	754.4	762.3	806.2	866.1	1113.6	882.1	886.1	3009.4	3460.5	3380.6	2682.2
82.5°	594.7	602.7	654.6	642.6	818.2	630.6	550.8	1448.8	1592.5	1560.6	1233.3
85°	335.3	335.3	514.9	514.9	518.9	399.1	335.3	682.5	842.2	786.3	578.7
87.5°	107.8	111.8	155.7	163.6	259.4	179.6	163.6	255.4	399.1	351.2	207.5
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°	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0	4582.0
2.5°	4677.8	4613.9	4586.0	4494.2	4470.3	4410.4	4382.4	4346.5	4334.5	4282.7	4330.6
5°	4713.7	4693.8	4582.0	4466.3	4378.5	4338.5	4278.7	4198.8	4190.9	4119.0	4111.0
7.5°	4865.4	4797.5	4602.0	4478.2	4302.6	4202.8	4071.1	4031.2	3979.3	3955.4	4007.3
10°	5100.9	4929.2	4637.9	4326.6	4111.0	3991.3	3895.5	3867.6	3871.6	3855.6	3831.6
12.5°	5268.5	5104.9	4578.0	4198.8	3919.5	3803.7	3795.7	3823.7	3867.6	3847.6	3875.5
15°	5508.0	5200.7	4534.1	3987.3	3763.8	3731.9	3727.9	3811.7	3807.7	3807.7	3803.7
17.5°	5731.5	5296.4	4374.5	3803.7	3600.1	3624.1	3652.0	3648.0	3688.0	3703.9	3731.9
20°	6014.9	5408.2	4150.9	3620.1	3476.4	3468.4	3464.4	3468.4	3508.3	3532.3	3512.3
22.5°	6262.3	5432.2	3963.4	3444.5	3328.7	3296.8	3244.9	3296.8	3276.9	3284.8	3308.8
25°	6477.9	5436.1	3695.9	3312.8	3181.1	3109.2	3069.3	3065.3	3029.4	3025.4	3025.4
27.5°	6657.5	5300.4	3460.5	3129.2	3005.4	2937.6	2933.6	2889.7	2797.9	2738.0	2746.0
30°	6797.2	5196.7	3296.8	2969.5	2849.8	2837.8	2801.9	2702.1	2582.4	2506.5	2506.5
32.5°	7044.6	4989.1	3073.3	2805.9	2746.0	2730.0	2646.2	2558.4	2446.7	2374.8	2362.8
35°	7228.2	4797.5	2925.6	2666.2	2638.2	2606.3	2534.5	2438.7	2406.8	2390.8	2402.8
37.5°	7435.8	4582.0	2746.0	2546.4	2574.4	2514.5	2430.7	2386.8	2498.6	2470.6	2482.6
40°	7767.1	4430.3	2570.4	2474.6	2502.5	2434.7	2326.9	2311.0	2450.7	2350.9	2326.9
42.5°	8373.7	4426.3	2462.6	2366.8	2386.8	2334.9	2239.1	2231.1	2287.0	2167.3	2131.4
45°	9128.1	4566.0	2382.8	2287.0	2271.0	2263.1	2231.1	2195.2	2147.3	1991.7	1951.7
47.5°	10030.1	4793.5	2366.8	2167.3	2187.2	2255.1	2215.2	2123.4	1999.6	1899.9	1879.9
50°	11123.7	5264.5	2326.9	2079.5	2115.4	2223.2	2191.2	2063.5	1951.7	1887.9	1875.9
52.5°	12333.1	5859.2	2275.0	1943.8	2023.6	2195.2	2211.2	2091.4	1927.8	1871.9	1863.9
55°	13758.0	6737.3	2215.2	1796.1	1915.8	2167.3	2211.2	2011.6	1895.9	1895.9	1887.9
57.5°	16571.9	8317.9	2091.4	1660.4	1820.0	2115.4	2147.3	2015.6	1899.9	1899.9	1883.9
60°	20698.9	10784.5	1856.0	1556.6	1728.2	2043.5	2099.4	1955.7	1856.0	1879.9	1875.9
62.5°	23927.8	11534.8	1656.4	1456.8	1636.4	1911.8	2035.6	1891.9	1804.1	1891.9	1899.9
65°	24618.3	10776.5	1452.8	1349.1	1508.7	1784.1	1943.8	1800.1	1728.2	1899.9	1907.8
66°	24370.8	10185.8	1381.0	1317.1	1452.8	1720.2	1887.9	1768.1	1688.3	1891.9	1895.9
67.5°	23269.3	9299.7	1301.2	1249.3	1377.0	1628.4	1824.0	1724.2	1624.5	1867.9	1832.0
70°	20874.5	7886.8	1165.5	1129.5	1269.2	1476.8	1676.3	1612.5	1524.7	1720.2	1656.4
72.5°	16076.9	6302.3	1021.8	1025.8	1145.5	1321.1	1528.7	1484.8	1408.9	1508.7	1468.8
75°	9790.6	4027.2	890.1	898.0	997.8	1173.4	1389.0	1357.0	1265.2	1321.1	1301.2
77.5°	4338.5	1995.6	750.4	766.3	846.2	1033.7	1209.4	1157.5	1061.7	1073.7	1065.7
80°	1684.3	945.9	610.7	630.6	682.5	826.2	1001.8	953.9	870.1	854.1	846.2
82.5°	810.2	526.9	471.0	479.0	498.9	658.6	862.1	802.3	690.5	618.7	618.7
85°	407.1	327.3	331.3	303.3	331.3	447.0	582.7	486.9	403.1	359.2	367.2
87.5°	163.6	163.6	163.6	139.7	147.7	211.5	271.4	183.6	167.6	99.8	99.8
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)