

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: P478616

Luminaire Tested: **IFLD-L-SA8B-750-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478616  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-750-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

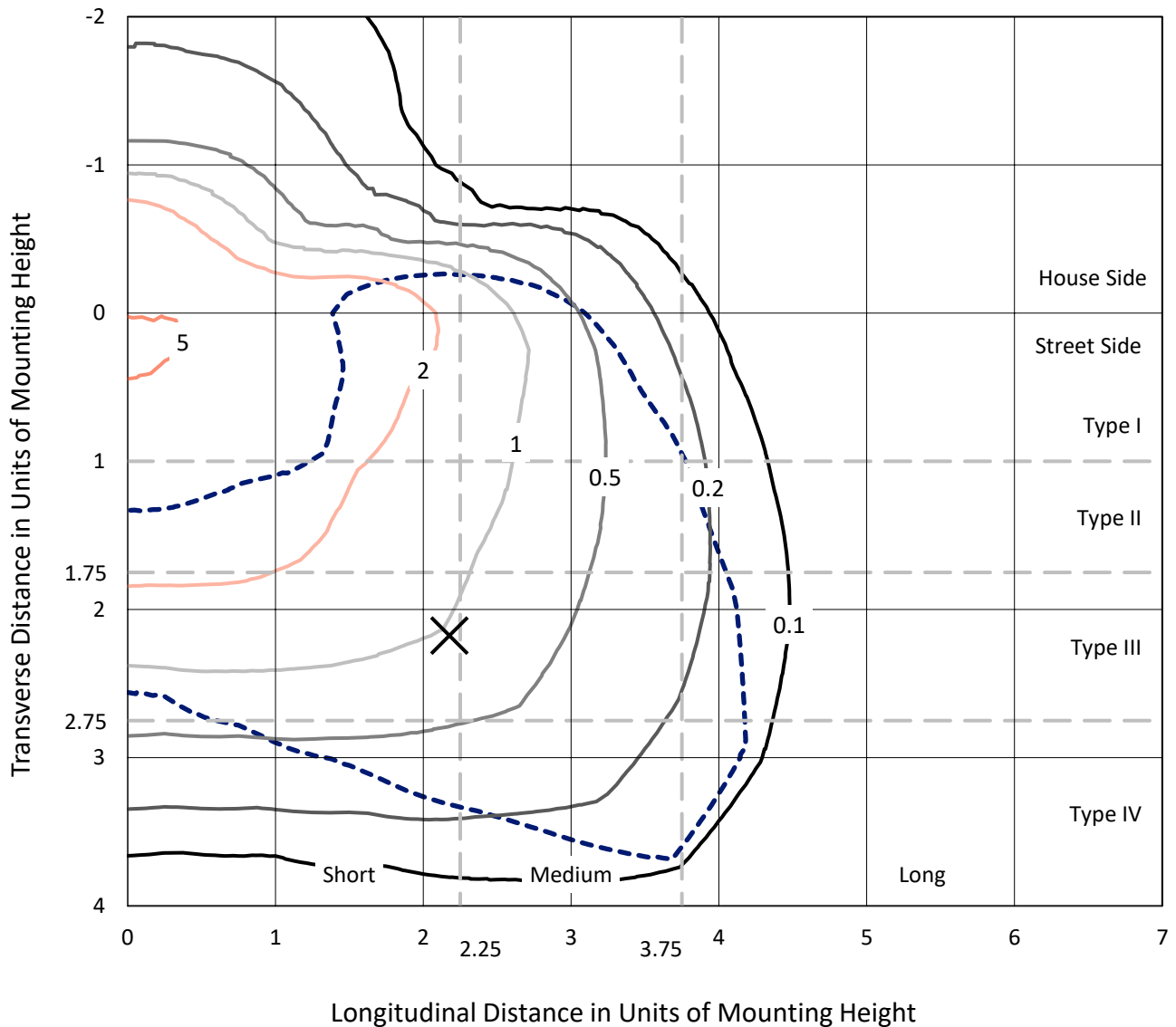
Lumens per Lamp: N/A  
Luminaire Lumens: 42079.5 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 320  
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

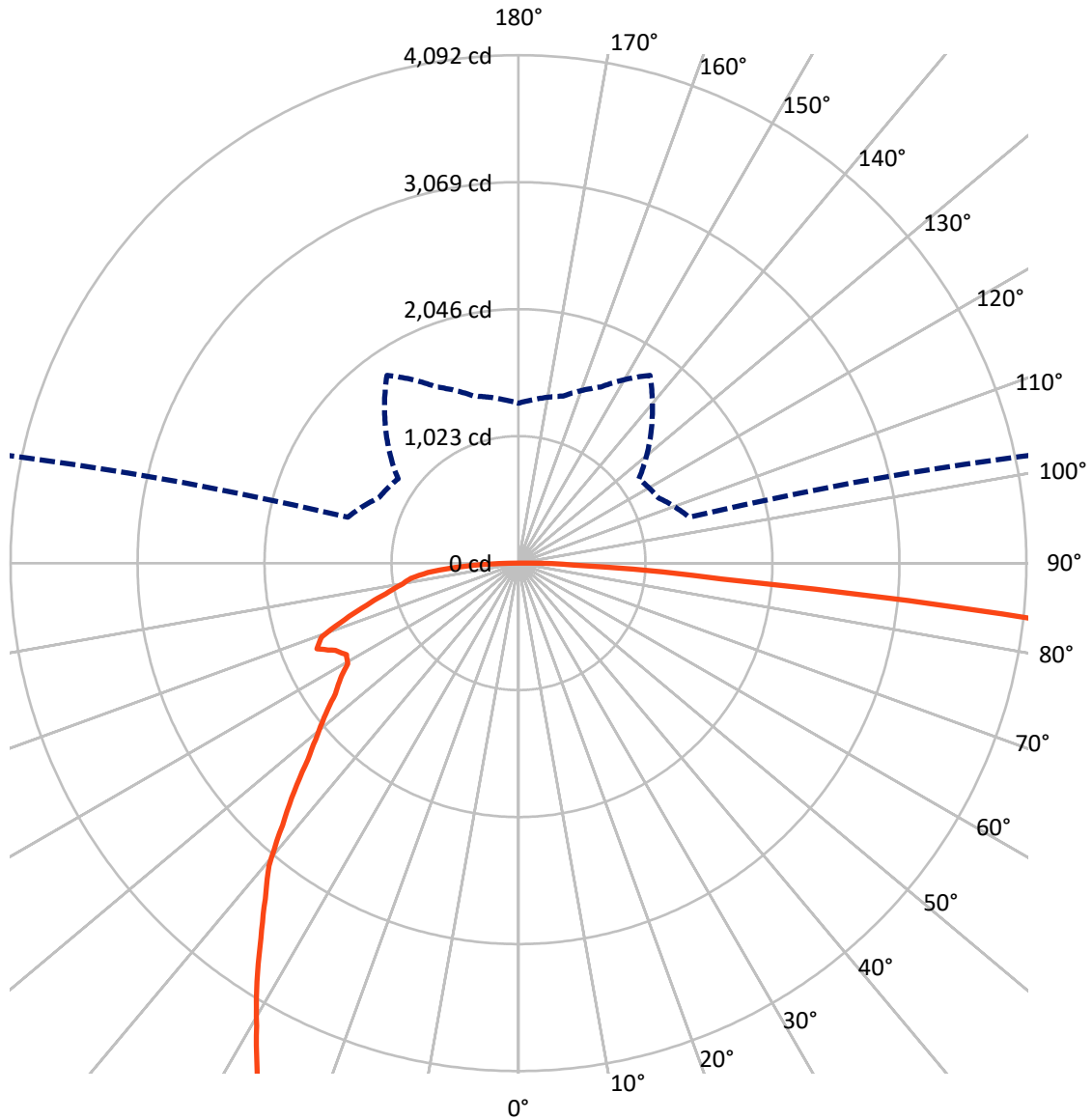
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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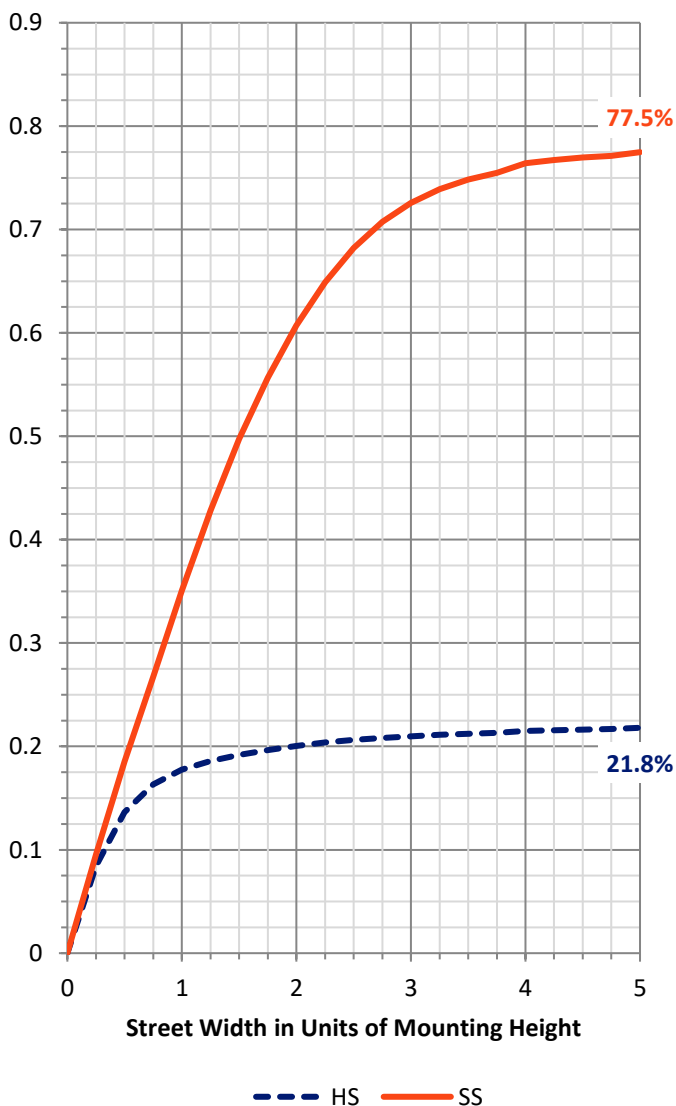
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9367.1	0.0	9367.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	32712.3	0.0	32712.3
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	42079.5	0.0	42079.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.4	1.1
10°-20°	1475.3	3.5
20°-30°	2491.4	5.9
30°-40°	3447.7	8.2
40°-50°	4931.6	11.7
50°-60°	7954.1	18.9
60°-70°	11731.2	27.9
70°-80°	8518.8	20.2
80°-90°	1085.9	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°	42079.5	100.0
0°-180°	42079.5	100.0

**Coefficient of Utilization**



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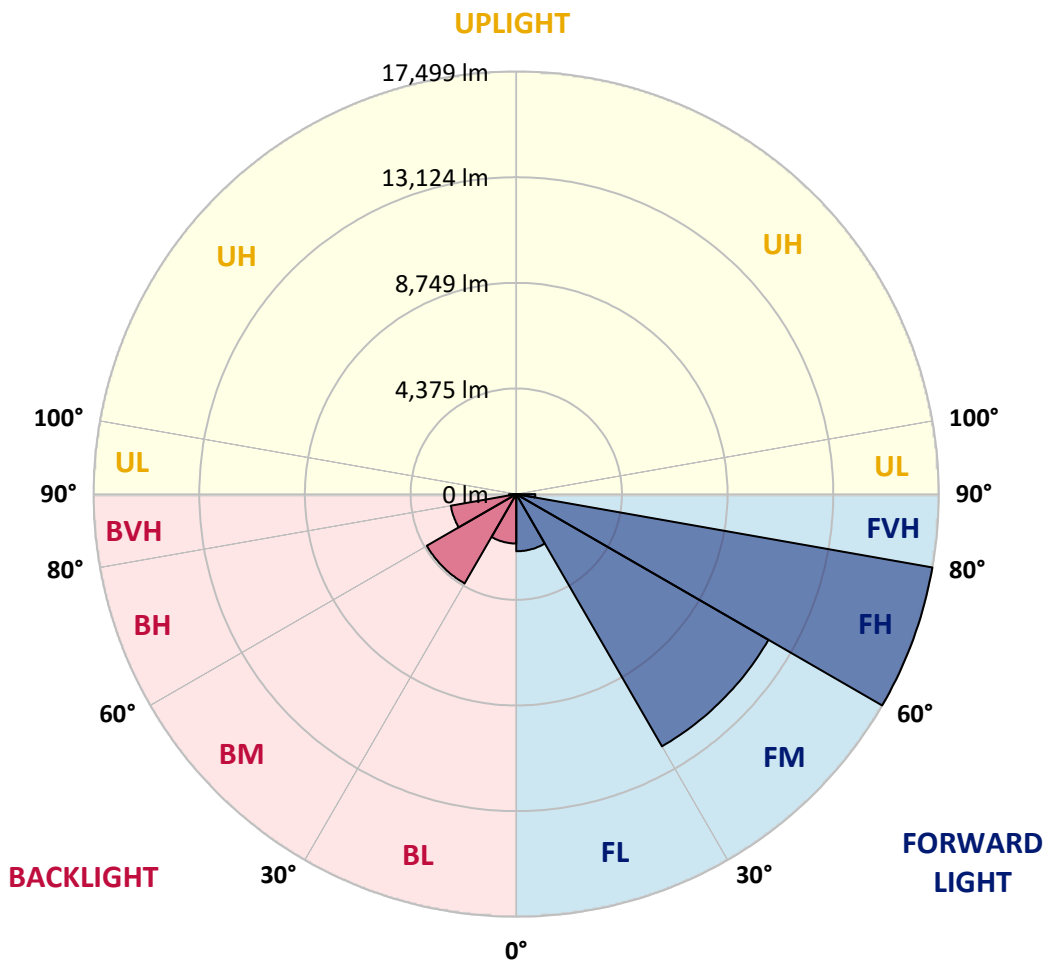
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2364.9	5.6			
FM (30°-60°)	12058.5	28.7			
FH (60°-80°)	17498.5	41.6			G5
FVH (80°-90°)	790.4	1.9			G5
BL (0°-30°)	2045.3	4.9	B3/2500		
BM (30°-60°)	4274.9	10.2	B3/5000		
BH (60°-80°)	2751.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	295.5	0.7			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4
2.5°	4564.8	4592.1	4564.8	4560.3	4514.9	4483.2	4510.4	4469.6	4424.2	4406.0	4365.2
5°	4982.3	4986.8	4936.9	4941.5	4846.2	4746.3	4764.5	4642.0	4510.4	4460.5	4378.8
7.5°	5408.8	5358.9	5286.3	5263.6	5113.9	5005.0	4991.4	4882.5	4678.3	4564.8	4451.4
10°	5685.6	5703.8	5585.8	5486.0	5358.9	5227.3	5222.8	5018.6	4900.6	4732.7	4587.5
12.5°	5930.7	5935.2	5835.4	5676.6	5517.7	5354.4	5377.1	5286.3	5086.7	4927.8	4782.6
15°	6121.2	6094.0	5985.1	5839.9	5672.0	5545.0	5531.4	5454.2	5286.3	5154.7	4914.2
17.5°	6175.7	6162.1	6053.2	5898.9	5735.5	5640.3	5676.6	5549.5	5481.4	5363.5	5132.0
20°	6071.3	6039.6	6021.4	5849.0	5731.0	5721.9	5690.2	5717.4	5604.0	5495.1	5327.2
22.5°	5880.7	5867.1	5858.1	5721.9	5667.5	5708.3	5762.8	5803.6	5785.5	5681.1	5490.5
25°	5685.6	5749.2	5690.2	5626.6	5703.8	5808.1	5794.5	5926.1	5926.1	5894.4	5735.5
27.5°	5821.8	5780.9	5735.5	5703.8	5731.0	5894.4	5885.3	6044.1	6103.1	6044.1	5862.6
30°	6162.1	6121.2	5989.7	5849.0	5812.7	5989.7	6035.0	6175.7	6202.9	6057.7	5903.4
32.5°	6801.9	6779.2	6570.5	6157.5	5935.2	6035.0	6057.7	6216.5	6193.8	6103.1	6039.6
35°	7750.2	7673.1	7382.7	6683.9	6193.8	6094.0	6035.0	6162.1	6248.3	6202.9	6143.9
37.5°	8789.4	8703.1	8344.7	7459.8	6661.2	6252.8	6207.5	6311.8	6411.6	6389.0	6266.4
40°	9783.1	9783.1	9460.9	8430.9	7355.5	6638.5	6647.6	6529.6	6620.4	6579.5	6602.2
42.5°	10763.2	10726.9	10595.3	9569.8	8099.6	7282.9	7137.7	6842.7	7006.1	6992.5	7024.2
45°	11757.0	11729.7	11693.4	10631.6	9166.0	8154.1	8077.0	7546.1	7695.8	7632.3	7768.4
47.5°	12551.0	12582.8	12582.8	11815.9	10304.9	9315.7	9202.3	8362.8	8648.7	8680.5	8712.2
50°	13227.1	13240.8	13227.1	12945.8	11575.5	10645.2	10413.8	9560.8	9846.6	10096.2	10386.6
52.5°	14161.9	14180.0	14116.5	14007.6	13299.7	12042.8	11784.2	10835.8	11421.2	11684.4	12206.2
55°	15314.4	15178.3	15060.3	15142.0	14956.0	13581.1	13313.4	12151.7	13032.0	13381.4	14425.1
57.5°	15527.7	15645.7	15945.2	16594.1	16861.8	15078.5	14924.2	13767.1	14851.6	15155.6	16898.1
60°	16281.0	16085.8	16820.9	18227.6	18527.1	17029.7	16870.9	15536.8	16662.1	16979.8	19180.5
62.5°	16775.6	16766.5	17855.5	19525.4	20206.0	19053.4	18731.3	17837.4	18617.8	18926.4	21667.1
65°	16630.4	16761.9	18695.0	20287.7	21608.1	21354.0	21168.0	19815.8	20845.8	20818.6	23287.0
67.5°	15305.4	15677.5	18164.1	20836.7	23695.4	24158.3	24099.3	22597.3	22656.3	22080.0	24008.5
70°	13467.6	13340.6	15918.0	20265.0	24739.1	27484.3	27470.7	24666.5	24285.3	22356.8	21939.4
72°	10345.8	10205.1	12324.2	17401.8	24190.0	28813.9	29222.2	26100.4	24267.2	21208.8	18123.2
72.5°	9392.9	9270.3	11380.3	16380.8	23582.0	29158.7	28968.1	26154.8	24076.6	20668.8	16929.8
75°	4324.3	4183.7	5685.6	10028.1	18395.5	25837.2	26486.1	24475.9	21027.3	16453.4	10141.6
77.5°	1288.7	1247.8	1828.7	4047.6	10690.6	19035.3	19284.9	18468.1	14679.2	9011.7	3761.7
80°	716.9	721.5	943.8	1515.6	4701.0	11003.7	11902.2	11407.6	7201.2	2976.7	1252.4
82.5°	399.3	422.0	589.9	898.4	2159.9	5050.4	5436.1	5240.9	2604.6	1397.6	685.2
85°	208.7	217.8	308.6	481.0	1225.2	1597.2	1642.6	1760.6	1352.2	952.9	367.5
87.5°	81.7	81.7	113.4	199.7	453.8	494.6	444.7	540.0	775.9	617.1	181.5
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°	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4	4333.4
2.5°	4401.5	4365.2	4360.6	4301.7	4319.8	4269.9	4274.4	4265.4	4269.9	4260.8	4238.1
5°	4378.8	4351.6	4274.4	4324.3	4279.0	4342.5	4392.4	4374.3	4387.9	4383.3	4387.9
7.5°	4410.6	4374.3	4365.2	4338.0	4378.8	4406.0	4446.9	4560.3	4551.2	4564.8	4592.1
10°	4505.9	4465.0	4437.8	4478.6	4455.9	4542.2	4587.5	4646.5	4750.9	4755.4	4701.0
12.5°	4691.9	4664.7	4610.2	4619.3	4696.4	4723.7	4750.9	4787.2	4855.2	4841.6	4891.5
15°	4905.2	4846.2	4814.4	4805.3	4823.5	4855.2	4850.7	4887.0	4923.3	4955.1	4941.5
17.5°	5059.4	4982.3	4991.4	5036.8	5032.2	5023.1	4964.2	4946.0	4964.2	4982.3	4973.2
20°	5218.3	5227.3	5159.3	5118.4	5100.3	5009.5	4964.2	4909.7	4855.2	4882.5	4923.3
22.5°	5417.9	5377.1	5277.2	5154.7	5064.0	5009.5	4868.9	4773.6	4773.6	4800.8	4787.2
25°	5644.8	5558.6	5386.1	5163.8	5050.4	4818.9	4719.1	4705.5	4669.2	4710.0	4728.2
27.5°	5821.8	5744.6	5508.7	5132.0	4818.9	4632.9	4573.9	4555.8	4614.8	4619.3	4691.9
30°	5894.4	5871.7	5526.8	5050.4	4583.0	4283.5	4247.2	4328.9	4392.4	4487.7	4492.2
32.5°	5989.7	5998.7	5554.0	4859.8	4274.4	3975.0	3920.5	4020.3	4201.8	4279.0	4338.0
35°	6148.5	6193.8	5531.4	4623.8	3947.7	3661.9	3652.8	3680.0	3857.0	3993.1	4070.2
37.5°	6425.3	6416.2	5526.8	4342.5	3689.1	3389.6	3317.0	3326.1	3444.0	3557.5	3543.9
40°	6797.3	6761.0	5513.2	3975.0	3353.3	3158.2	3035.7	2990.3	2981.2	2949.4	2958.5
42.5°	7305.6	7233.0	5508.7	3602.9	3049.3	2840.5	2754.3	2636.4	2550.1	2386.8	2395.9
45°	8013.4	7886.4	5390.7	3253.5	2749.8	2577.4	2445.8	2359.6	2173.5	1969.3	1969.3
47.5°	9107.0	8694.1	5395.2	2867.8	2459.4	2318.7	2228.0	2078.2	1878.6	1715.2	1697.1
50°	10717.8	9774.0	5240.9	2563.8	2223.4	2128.1	2032.9	1860.4	1669.8	1556.4	1570.0
52.5°	12796.1	11384.9	5236.4	2291.5	2037.4	1969.3	1865.0	1710.7	1570.0	1497.4	1470.2
55°	15273.6	13517.6	5399.8	2069.2	1846.8	1810.5	1765.1	1638.1	1502.0	1438.4	1433.9
57.5°	17810.1	15600.3	5662.9	1910.3	1683.5	1710.7	1678.9	1579.1	1470.2	1397.6	1388.5
60°	20065.3	17252.0	5132.0	1719.8	1538.3	1597.2	1642.6	1556.4	1497.4	1492.9	1461.1
62.5°	21766.9	17959.9	3902.3	1574.6	1461.1	1570.0	1692.5	1747.0	1719.8	1756.1	1760.6
65°	22388.6	17533.3	2686.3	1497.4	1402.1	1633.5	1905.8	1887.6	1728.8	1660.8	1697.1
67.5°	21517.4	15804.5	1992.0	1406.7	1361.3	1765.1	2028.3	1801.4	1560.9	1551.9	1524.6
70°	18504.4	13395.0	1624.5	1311.4	1293.2	1692.5	1973.9	1669.8	1470.2	1411.2	1384.0
72°	14742.7	10432.0	1424.8	1243.3	1184.3	1511.0	1846.8	1565.5	1393.0	1320.4	1288.7
72.5°	13458.6	9669.7	1397.6	1211.5	1161.6	1470.2	1783.3	1533.7	1374.9	1311.4	1261.5
75°	7382.7	4950.5	1229.7	1111.7	980.1	1270.5	1651.7	1438.4	1297.8	1207.0	1197.9
77.5°	2745.3	1919.4	1061.8	984.7	848.5	1098.1	1502.0	1365.8	1179.8	1066.3	1043.7
80°	1052.7	1011.9	866.7	830.4	712.4	962.0	1384.0	1225.2	1002.8	889.4	853.1
82.5°	639.8	589.9	658.0	648.9	544.5	875.8	1302.3	1148.0	889.4	721.5	698.8
85°	349.4	349.4	458.3	440.1	381.2	698.8	984.7	762.3	562.7	462.8	471.9
87.5°	154.3	181.5	245.0	231.4	208.7	394.8	481.0	403.8	281.3	190.6	204.2
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)