

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: P478339

Luminaire Tested: **IFLD-L-SA7C-830-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478339  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-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**

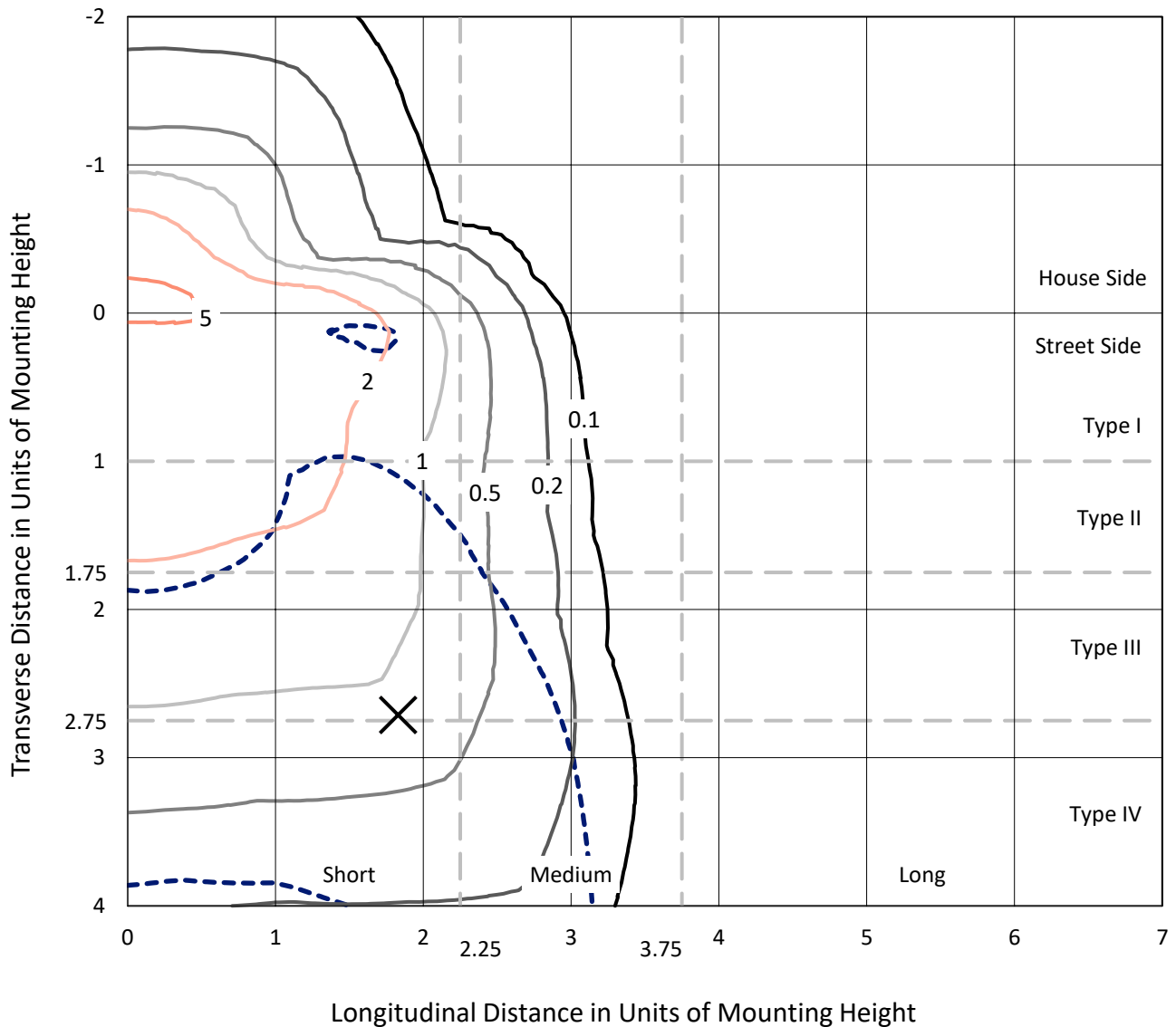
Lumens per Lamp: N/A  
Luminaire Lumens: 36088 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 369  
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

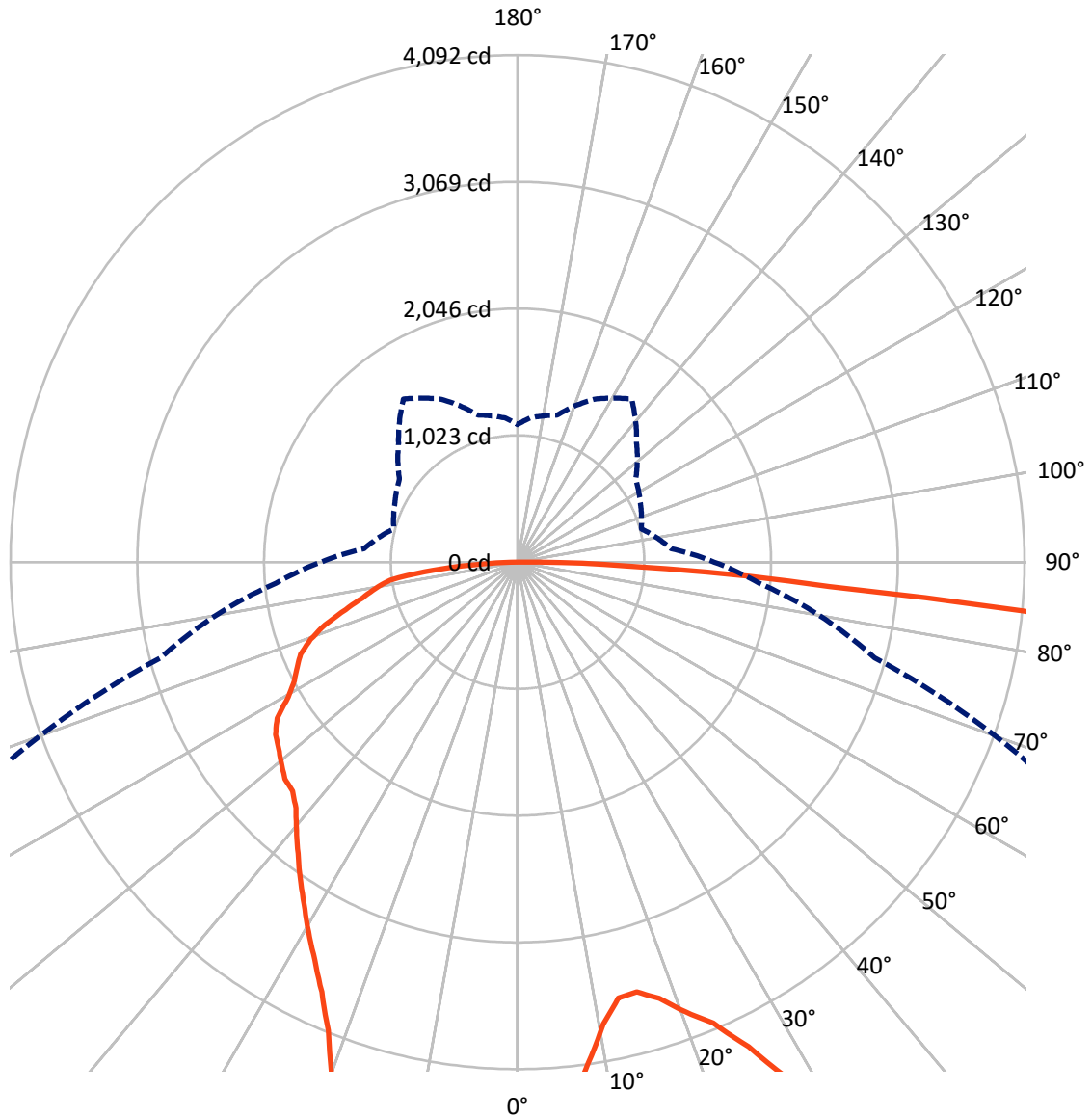
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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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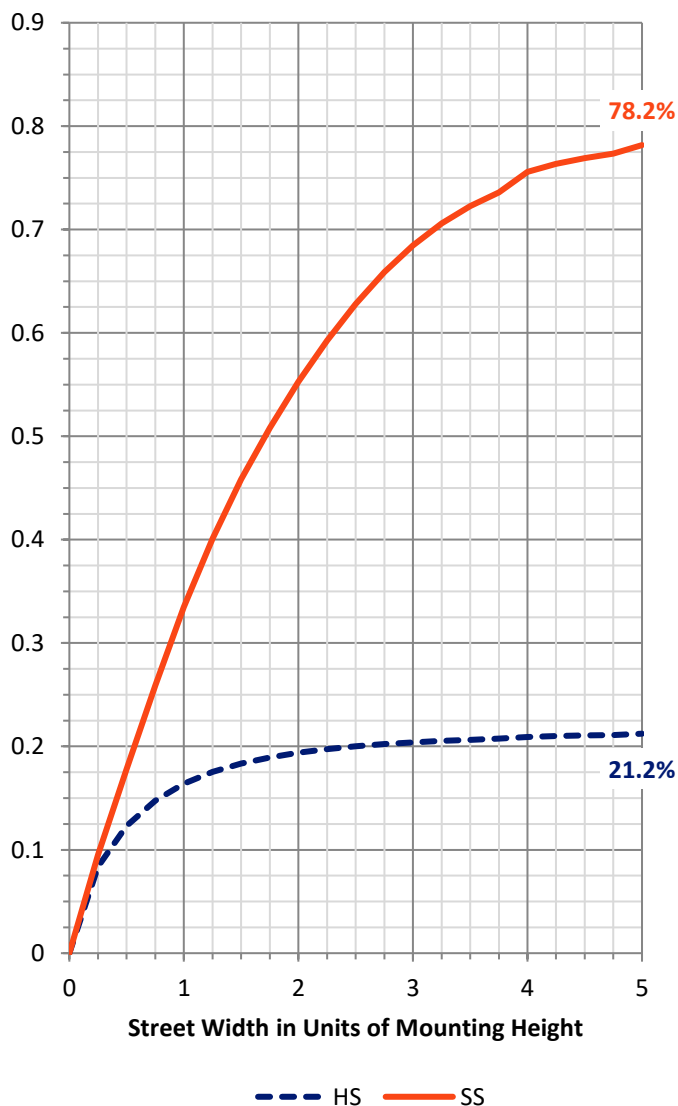
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7795.4	0.0	7795.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	28292.6	0.0	28292.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	36088.0	0.0	36088.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.5	1.3
10°-20°	1336.4	3.7
20°-30°	2199.5	6.1
30°-40°	3289.3	9.1
40°-50°	4876.2	13.5
50°-60°	7027.1	19.5
60°-70°	8967.6	24.8
70°-80°	6978.3	19.3
80°-90°	936.2	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°	36088.0	100.0
0°-180°	36088.0	100.0

**Coefficient of Utilization**



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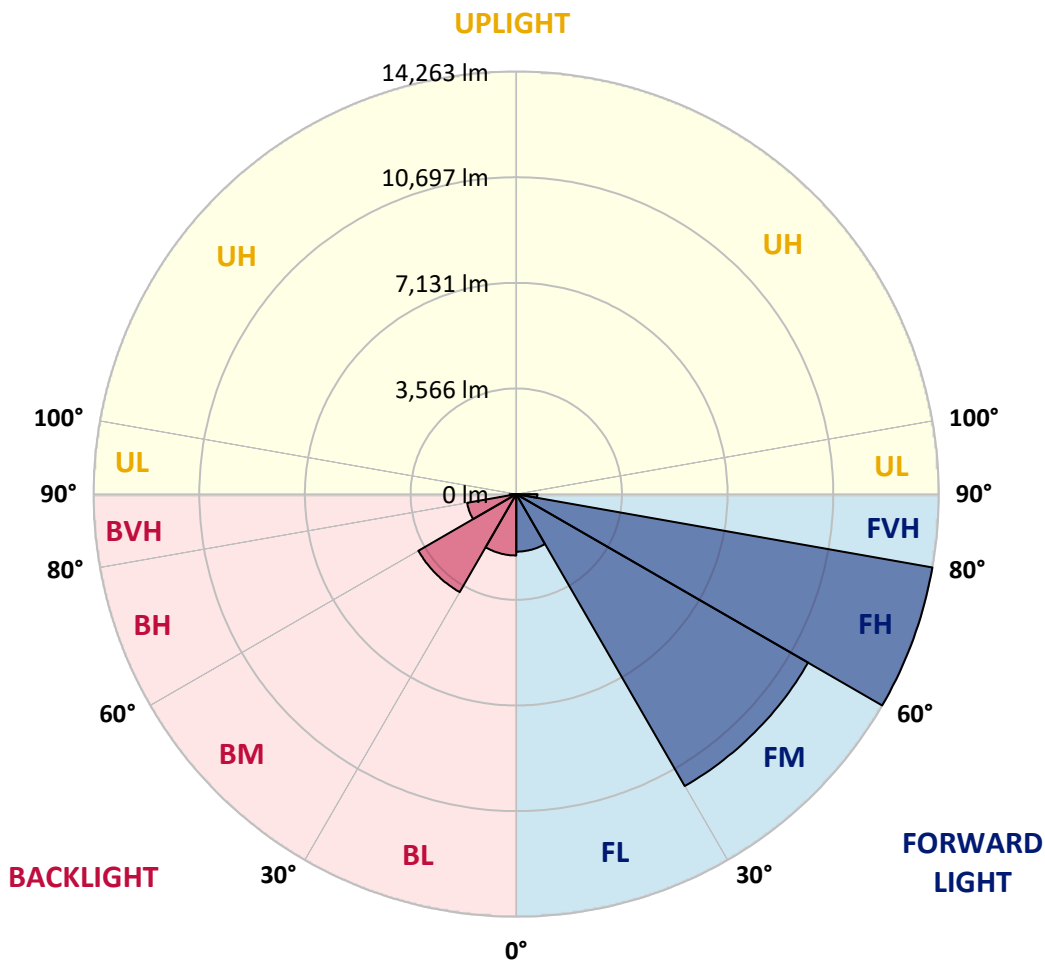
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1942.1	5.4			
FM (30°-60°)	11375.2	31.5			
FH (60°-80°)	14262.6	39.5			G5
FVH (80°-90°)	712.6	2.0			G4/750
BL (0°-30°)	2071.2	5.7	B3/2500		
BM (30°-60°)	3817.5	10.6	B3/5000		
BH (60°-80°)	1683.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	223.6	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8
2.5°	4635.8	4651.1	4700.7	4712.1	4765.5	4735.0	4799.9	4914.3	4979.2	5074.6	5189.0
5°	4269.5	4204.7	4235.2	4353.5	4414.5	4429.8	4498.4	4693.0	4815.1	4956.3	5170.0
7.5°	3838.4	3826.9	3888.0	3964.3	4086.4	4097.8	4250.4	4422.1	4674.0	4986.8	5238.6
10°	3544.6	3594.2	3628.5	3708.6	3792.6	3792.6	3987.2	4284.8	4570.9	4872.4	5253.9
12.5°	3529.3	3498.8	3506.4	3548.4	3609.4	3685.7	3868.9	4136.0	4498.4	4849.5	5318.8
15°	3578.9	3590.4	3521.7	3575.1	3598.0	3624.7	3826.9	4128.3	4452.7	4929.6	5429.4
17.5°	3842.2	3777.3	3670.5	3620.9	3701.0	3701.0	3838.4	4074.9	4460.3	4971.6	5589.7
20°	4048.2	4048.2	3872.7	3819.3	3876.5	3865.1	3960.5	4136.0	4498.4	5055.5	5769.0
22.5°	4395.4	4445.0	4155.1	4044.4	4040.6	4071.1	4155.1	4303.9	4605.3	5173.8	5940.7
25°	4895.3	4906.7	4570.9	4456.5	4334.4	4384.0	4399.2	4548.0	4700.7	5311.1	6135.3
27.5°	5452.3	5444.7	5135.6	4849.5	4769.3	4780.8	4696.8	4796.1	4841.8	5353.1	6413.8
30°	6070.4	6001.7	5769.0	5364.6	5299.7	5227.2	5044.1	5040.2	5135.6	5589.7	6799.2
32.5°	6474.9	6387.1	6226.9	5936.9	5757.6	5765.2	5475.2	5471.4	5387.5	5849.1	7134.9
35°	6871.7	6738.1	6696.2	6398.6	6219.2	6238.3	6005.6	5975.0	5822.4	6242.1	7688.2
37.5°	7348.6	7230.3	7295.2	7070.1	6848.8	6757.2	6650.4	6612.2	6413.8	6795.4	8443.6
40°	7875.1	7837.0	7795.0	7684.4	7550.8	7558.5	7444.0	7405.8	7112.0	7463.1	9168.6
42.5°	8584.8	8439.8	8222.3	8294.8	8363.5	8436.0	8397.9	8298.7	7993.4	8142.2	9977.5
45°	9244.9	9054.1	8653.5	8676.4	8958.7	9016.0	9477.6	9466.2	8851.9	9004.5	10897.0
47.5°	9691.3	9603.5	9363.2	9336.5	9740.9	9737.1	10568.9	10568.9	9756.2	9863.0	11885.2
50°	10355.2	10126.3	10023.3	10156.8	10362.8	10504.0	11683.0	11755.5	10645.2	10759.6	13178.6
52.5°	11133.6	10847.4	10587.9	10931.3	11297.6	11389.2	12785.7	12755.1	11328.1	11801.3	14693.4
55°	11778.4	11633.4	11454.1	11652.5	12251.5	12366.0	13892.1	13609.8	12011.1	12663.6	15422.1
57.5°	12530.0	12617.8	12655.9	12606.3	13319.8	13499.1	15155.1	14346.2	12598.7	13243.5	15849.5
60°	13663.2	13716.6	13766.2	13884.5	14640.0	14891.8	16154.7	15269.5	12968.8	13579.3	15883.8
62.5°	15387.8	15181.8	15292.4	15700.7	16307.3	16593.5	17627.5	15918.2	13251.1	13781.5	14762.1
65°	17360.4	17081.9	16967.4	17494.0	19065.9	18837.0	19466.6	16402.7	12842.9	13026.0	12518.6
67.5°	19359.7	19390.2	19096.5	20153.3	22080.2	22080.2	21175.9	16635.5	11736.4	10557.4	8779.4
70°	20947.0	21042.3	21202.6	23251.5	26303.9	26765.6	23293.5	15681.6	9481.5	7028.1	4799.9
72.5°	20924.1	20637.9	21458.2	25231.7	30142.2	29756.9	23736.1	12400.3	5917.8	3441.6	2201.5
73°	20454.8	20214.4	21111.0	25212.7	30298.7	29936.2	23411.8	11431.2	5219.6	2983.7	1957.3
75°	16704.1	16269.2	17795.4	22835.6	28032.3	28310.8	19890.1	7455.4	2861.6	1839.1	1377.4
77.5°	7615.7	7806.5	9794.3	15319.1	21603.2	21931.3	13075.6	3224.1	1568.2	1289.6	1014.9
80°	2445.7	2567.8	3811.7	7615.7	13541.1	14132.5	6043.7	1465.1	1117.9	988.2	759.3
82.5°	934.8	931.0	1598.7	3166.8	6417.6	6795.4	2209.2	892.8	831.8	728.8	538.0
85°	328.1	343.4	602.8	1251.5	2525.8	2644.1	766.9	496.0	576.1	488.4	309.1
87.5°	114.5	118.3	213.7	454.0	869.9	919.5	213.7	198.4	286.2	282.3	156.4
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°	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8	5173.8
2.5°	5227.2	5261.5	5273.0	5410.3	5410.3	5410.3	5463.8	5463.8	5448.5	5410.3	5501.9
5°	5250.1	5311.1	5429.4	5547.7	5578.2	5604.9	5677.4	5616.4	5639.3	5601.1	5635.5
7.5°	5315.0	5398.9	5620.2	5692.7	5643.1	5700.3	5624.0	5582.0	5540.1	5555.3	5501.9
10°	5425.6	5532.4	5635.5	5769.0	5673.6	5616.4	5459.9	5421.8	5288.2	5242.5	5284.4
12.5°	5563.0	5692.7	5868.2	5818.6	5635.5	5471.4	5303.5	5143.3	5063.1	4948.7	4979.2
15°	5700.3	5849.1	5875.8	5791.9	5563.0	5356.9	5051.7	4826.6	4746.5	4643.4	4696.8
17.5°	5849.1	5990.3	5944.5	5727.0	5418.0	5105.1	4757.9	4536.6	4368.7	4303.9	4303.9
20°	6070.4	6139.1	6066.6	5620.2	5242.5	4830.4	4494.6	4242.8	4074.9	4048.2	4006.2
22.5°	6242.1	6352.8	6028.4	5463.8	4986.8	4471.7	4086.4	3991.0	3941.4	3899.4	3846.0
25°	6463.4	6459.6	5959.8	5318.8	4548.0	4044.4	3811.7	3804.0	3781.1	3765.9	3838.4
27.5°	6673.3	6585.5	5879.6	4960.1	4094.0	3720.1	3594.2	3678.1	3712.5	3689.6	3720.1
30°	7005.2	6860.2	5765.2	4578.6	3693.4	3392.0	3414.8	3529.3	3586.5	3620.9	3575.1
32.5°	7356.2	7134.9	5528.6	4181.8	3338.5	3185.9	3239.3	3357.6	3426.3	3464.5	3506.4
35°	7863.7	7348.6	5288.2	3662.9	3082.9	3060.0	3090.5	3155.4	3254.6	3281.3	3292.8
37.5°	8489.4	7672.9	4963.9	3247.0	2884.5	2911.2	2941.7	2964.6	2968.4	3018.0	2999.0
40°	9115.2	7947.6	4490.8	2850.2	2678.5	2823.5	2808.2	2766.2	2731.9	2686.1	2674.6
42.5°	9664.6	8188.0	3964.3	2514.4	2495.3	2731.9	2682.3	2575.4	2495.3	2461.0	2403.7
45°	10282.7	8527.6	3433.9	2304.5	2354.1	2621.2	2606.0	2441.9	2338.9	2216.8	2201.5
47.5°	11084.0	8882.4	2926.5	2087.1	2220.6	2579.3	2586.9	2377.0	2228.2	2064.2	2041.3
50°	12110.3	9393.7	2541.1	1995.5	2140.5	2518.2	2529.7	2289.3	2094.7	1926.8	1911.6
52.5°	13094.7	9916.4	2220.6	1854.3	2087.1	2445.7	2472.4	2209.2	1984.0	1774.2	1785.6
55°	13590.7	9725.6	1945.9	1751.3	1965.0	2327.4	2426.6	2151.9	1816.2	1671.2	1667.4
57.5°	13701.4	9256.3	1728.4	1644.5	1862.0	2201.5	2350.3	1980.2	1739.9	1617.8	1602.5
60°	13338.9	8436.0	1556.7	1530.0	1732.2	2071.8	2174.8	1888.7	1663.5	1564.3	1541.5
62.5°	12446.1	7585.2	1438.4	1476.6	1621.6	1930.6	2064.2	1823.8	1591.1	1522.4	1472.8
65°	10206.4	6238.3	1343.0	1373.6	1507.1	1793.3	1995.5	1751.3	1526.2	1461.3	1457.5
67.5°	7070.1	4300.0	1266.7	1324.0	1415.5	1694.1	1926.8	1671.2	1442.2	1419.4	1388.8
70°	3620.9	2293.1	1167.5	1213.3	1316.3	1568.2	1804.7	1587.2	1354.5	1350.7	1312.5
72.5°	1835.2	1343.0	1053.1	1121.7	1194.2	1404.1	1652.1	1476.6	1243.8	1201.9	1140.8
73°	1587.2	1243.8	1034.0	1095.0	1163.7	1358.3	1606.3	1449.9	1228.6	1167.5	1110.3
75°	1156.1	980.6	927.2	988.2	1041.6	1224.8	1453.7	1327.8	1129.4	1064.5	1011.1
77.5°	866.1	755.5	770.7	839.4	885.2	1056.9	1293.4	1201.9	1022.5	934.8	911.9
80°	637.2	576.1	637.2	702.0	736.4	931.0	1179.0	1041.6	862.3	763.1	744.0
82.5°	454.0	419.7	492.2	534.2	549.4	770.7	1060.7	831.8	652.4	522.7	480.7
85°	259.5	255.6	331.9	328.1	339.6	450.2	698.2	553.2	419.7	320.5	312.9
87.5°	114.5	125.9	167.9	133.5	141.2	213.7	297.6	206.0	171.7	95.4	72.5
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)