

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: P478143

Luminaire Tested: **IFLD-L-SA7B-735-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478143  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-735-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

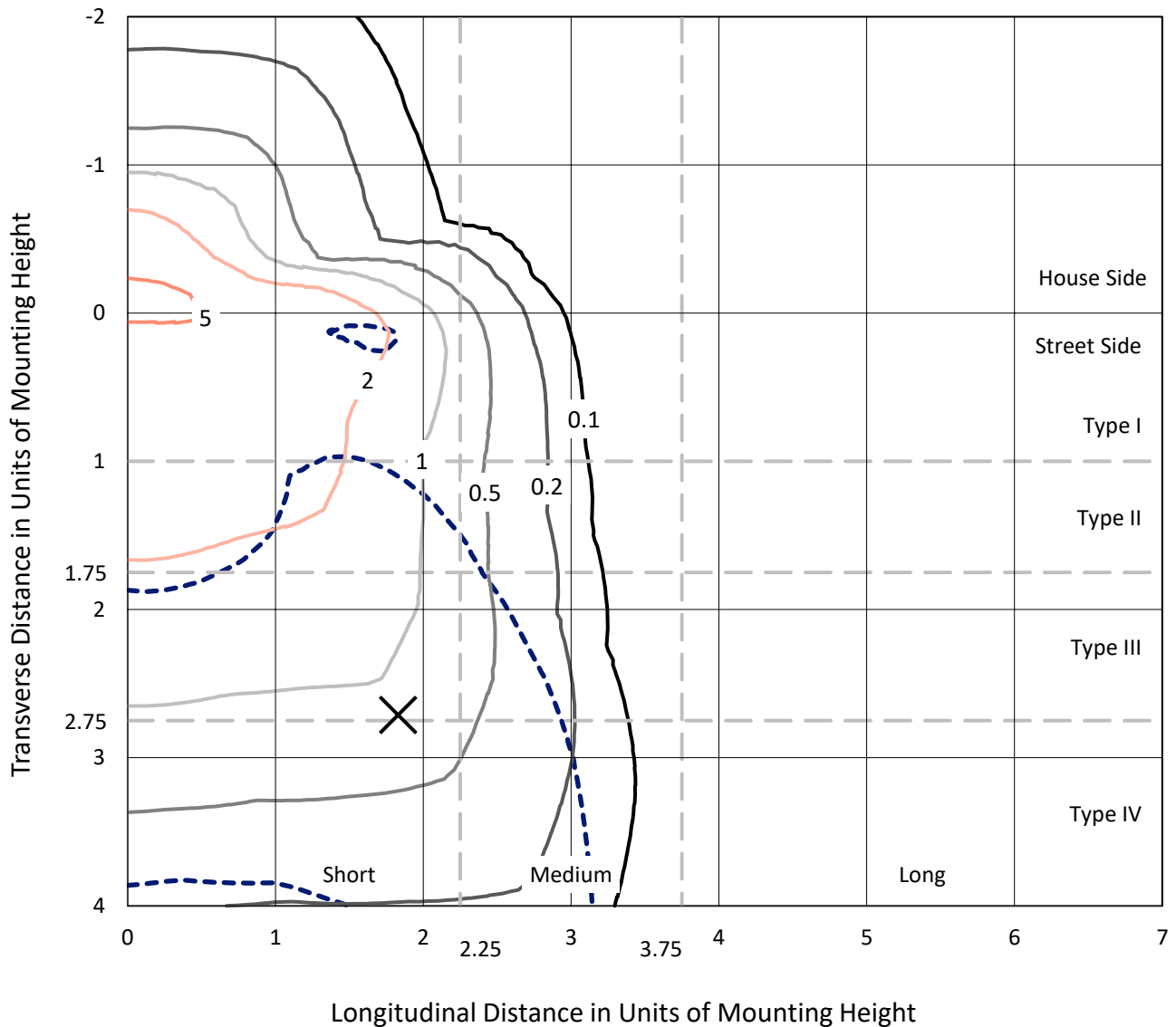
Lumens per Lamp: N/A  
Luminaire Lumens: 35984.4 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

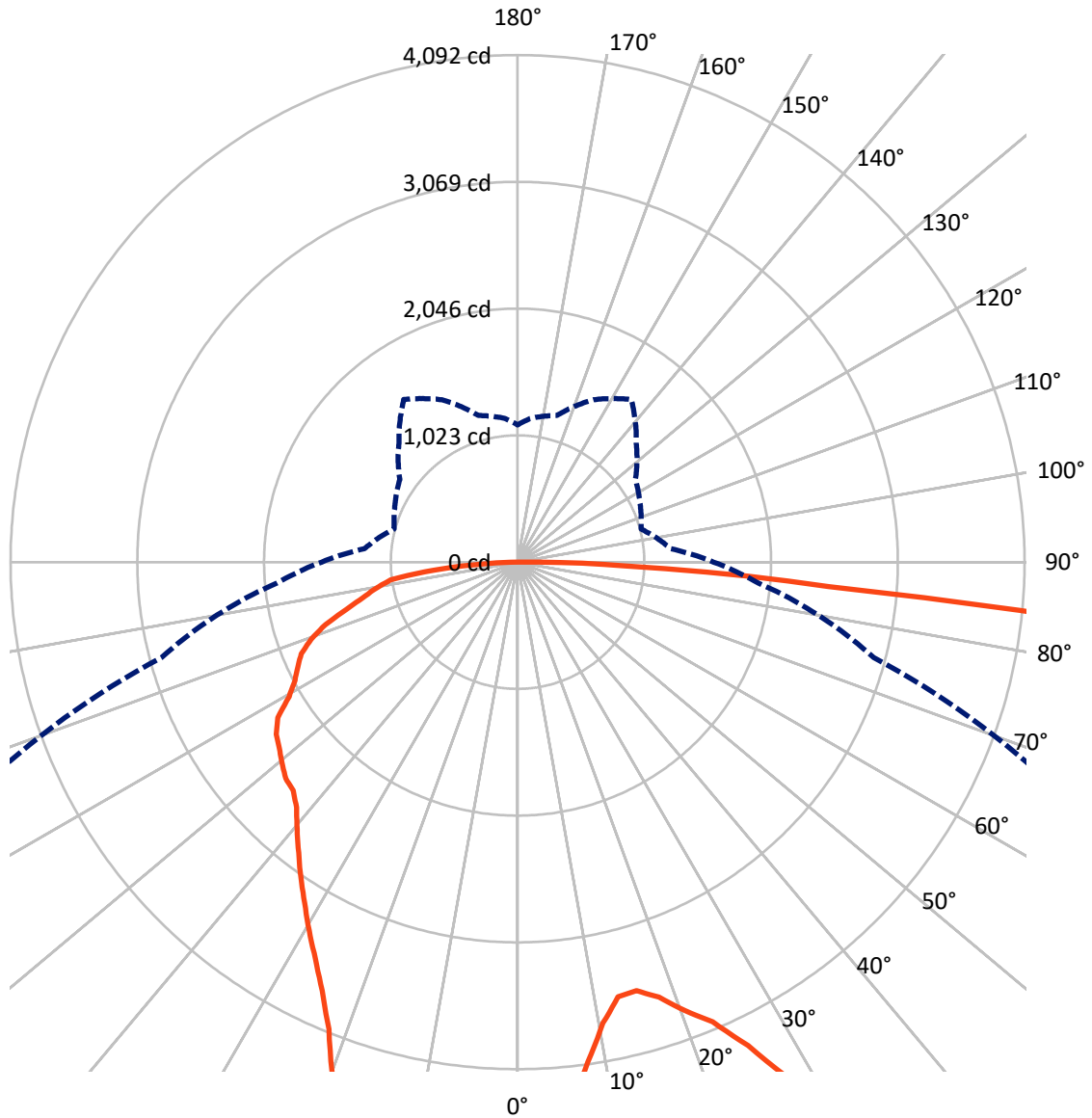
× Max cd  
 - - - 1/2 Max cd



Based on 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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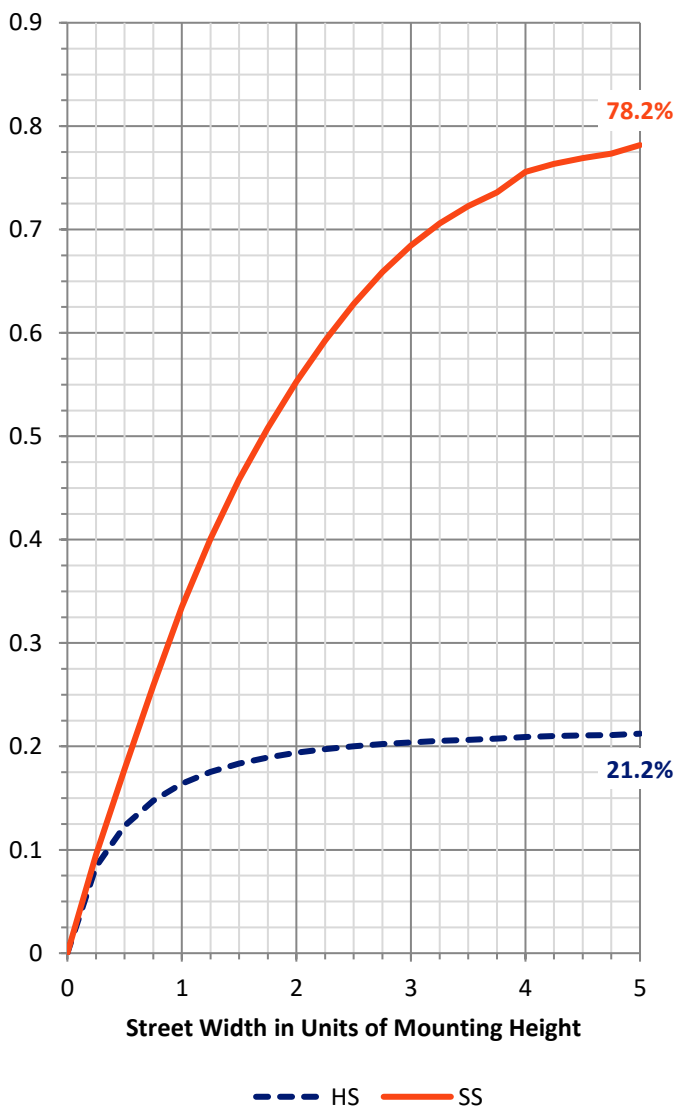
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7773.1	0.0	7773.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	28211.3	0.0	28211.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	35984.4	0.0	35984.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.1	1.3
10°-20°	1332.5	3.7
20°-30°	2193.2	6.1
30°-40°	3279.8	9.1
40°-50°	4862.2	13.5
50°-60°	7007.0	19.5
60°-70°	8941.8	24.8
70°-80°	6958.2	19.3
80°-90°	933.5	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°	35984.4	100.0
0°-180°	35984.4	100.0

**Coefficient of Utilization**



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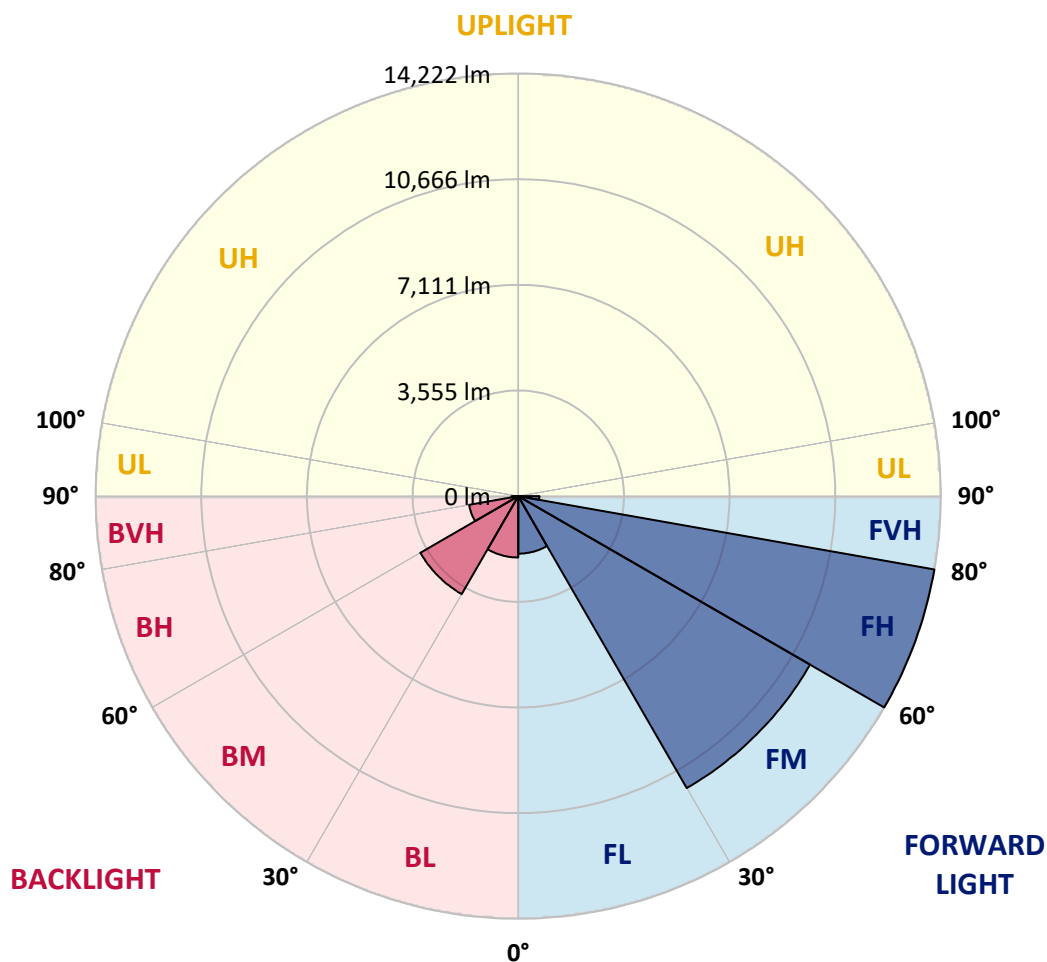
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.6	5.4			
FM (30°-60°)	11342.5	31.5			
FH (60°-80°)	14221.7	39.5			G5
FVH (80°-90°)	710.5	2.0			G4/750
BL (0°-30°)	2065.3	5.7	B3/2500		
BM (30°-60°)	3806.5	10.6	B3/5000		
BH (60°-80°)	1678.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	222.9	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°	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9
2.5°	4622.5	4637.7	4687.2	4698.6	4751.8	4721.4	4786.1	4900.2	4964.9	5060.0	5174.2
5°	4257.3	4192.6	4223.0	4341.0	4401.8	4417.1	4485.5	4679.6	4801.3	4942.1	5155.1
7.5°	3827.4	3815.9	3876.8	3952.9	4074.6	4086.1	4238.2	4409.4	4660.5	4972.5	5223.6
10°	3534.4	3583.9	3618.1	3698.0	3781.7	3781.7	3975.7	4272.5	4557.8	4858.4	5238.8
12.5°	3519.2	3488.7	3496.4	3538.2	3599.1	3675.2	3857.8	4124.1	4485.5	4835.5	5303.5
15°	3568.6	3580.1	3511.6	3564.8	3587.7	3614.3	3815.9	4116.5	4439.9	4915.4	5413.8
17.5°	3831.2	3766.5	3660.0	3610.5	3690.4	3690.4	3827.4	4063.2	4447.5	4957.3	5573.6
20°	4036.6	4036.6	3861.6	3808.3	3865.4	3854.0	3949.1	4124.1	4485.5	5041.0	5752.4
22.5°	4382.8	4432.3	4143.1	4032.8	4029.0	4059.4	4143.1	4291.5	4592.1	5158.9	5923.6
25°	4881.2	4892.6	4557.8	4443.7	4321.9	4371.4	4386.6	4535.0	4687.2	5295.9	6117.7
27.5°	5436.7	5429.1	5120.9	4835.5	4755.7	4767.1	4683.4	4782.3	4827.9	5337.7	6395.4
30°	6053.0	5984.5	5752.4	5349.2	5284.5	5212.2	5029.6	5025.8	5120.9	5573.6	6779.7
32.5°	6456.3	6368.8	6209.0	5919.8	5741.0	5748.6	5459.5	5455.7	5372.0	5832.3	7114.5
35°	6851.9	6718.8	6676.9	6380.2	6201.4	6220.4	5988.3	5957.9	5805.7	6224.2	7666.1
37.5°	7327.5	7209.6	7274.2	7049.8	6829.1	6737.8	6631.3	6593.2	6395.4	6775.9	8419.4
40°	7852.5	7814.5	7772.6	7662.3	7529.2	7536.8	7422.6	7384.6	7091.6	7441.6	9142.3
42.5°	8560.2	8415.6	8198.7	8271.0	8339.5	8411.8	8373.8	8274.8	7970.5	8118.9	9948.8
45°	9218.4	9028.1	8628.7	8651.5	8933.0	8990.1	9450.4	9439.0	8826.5	8978.7	10865.7
47.5°	9663.5	9576.0	9336.3	9309.7	9712.9	9709.1	10538.5	10538.5	9728.2	9834.7	11851.1
50°	10325.5	10097.2	9994.5	10127.6	10333.1	10473.9	11649.5	11721.7	10614.6	10728.8	13140.8
52.5°	11101.6	10816.3	10557.6	10900.0	11265.2	11356.5	12749.0	12718.5	11295.6	11767.4	14651.2
55°	11744.6	11600.0	11421.2	11619.0	12216.3	12330.5	13852.3	13570.7	11976.6	12627.2	15377.9
57.5°	12494.1	12581.6	12619.6	12570.1	13281.6	13460.4	15111.6	14305.0	12562.5	13205.5	15804.0
60°	13624.0	13677.3	13726.7	13844.7	14598.0	14849.1	16108.4	15225.7	12931.6	13540.3	15838.2
62.5°	15343.6	15138.2	15248.5	15655.6	16260.5	16545.9	17576.9	15872.5	13213.1	13741.9	14719.7
65°	17310.6	17032.9	16918.7	17443.7	19011.2	18782.9	19410.7	16355.6	12806.0	12988.6	12482.6
67.5°	19304.2	19334.6	19041.6	20095.5	22016.8	22016.8	21115.1	16587.7	11702.7	10527.1	8754.2
70°	20886.8	20981.9	21141.7	23184.8	26228.4	26688.7	23226.6	15636.6	9454.2	7007.9	4786.1
72.5°	20864.0	20578.7	21396.6	25159.3	30055.7	29671.5	23667.9	12364.7	5900.8	3431.7	2195.2
73°	20396.1	20156.4	21050.4	25140.3	30211.7	29850.3	23344.6	11398.4	5204.6	2975.1	1951.7
75°	16656.2	16222.5	17744.3	22770.1	27951.8	28229.6	19833.0	7434.0	2853.4	1833.8	1373.4
77.5°	7593.8	7784.1	9766.2	15275.2	21541.2	21868.4	13038.1	3214.8	1563.7	1285.9	1012.0
80°	2438.7	2560.4	3800.7	7593.8	13502.3	14092.0	6026.4	1460.9	1114.7	985.4	757.1
82.5°	932.1	928.3	1594.1	3157.8	6399.2	6775.9	2202.8	890.3	829.4	726.7	536.4
85°	327.2	342.4	601.1	1247.9	2518.6	2636.5	764.7	494.6	574.5	487.0	308.2
87.5°	114.1	117.9	213.1	452.7	867.4	916.9	213.1	197.8	285.3	281.5	156.0
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°	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9	5158.9
2.5°	5212.2	5246.4	5257.9	5394.8	5394.8	5394.8	5448.1	5448.1	5432.9	5394.8	5486.1
5°	5235.0	5295.9	5413.8	5531.8	5562.2	5588.8	5661.1	5600.3	5623.1	5585.0	5619.3
7.5°	5299.7	5383.4	5604.1	5676.3	5626.9	5684.0	5607.9	5566.0	5524.2	5539.4	5486.1
10°	5410.0	5516.6	5619.3	5752.4	5657.3	5600.3	5444.3	5406.2	5273.1	5227.4	5269.3
12.5°	5547.0	5676.3	5851.4	5801.9	5619.3	5455.7	5288.3	5128.5	5048.6	4934.5	4964.9
15°	5684.0	5832.3	5859.0	5775.3	5547.0	5341.6	5037.2	4812.7	4732.8	4630.1	4683.4
17.5°	5832.3	5973.1	5927.4	5710.6	5402.4	5090.5	4744.2	4523.6	4356.2	4291.5	4291.5
20°	6053.0	6121.5	6049.2	5604.1	5227.4	4816.5	4481.7	4230.6	4063.2	4036.6	3994.7
22.5°	6224.2	6334.5	6011.1	5448.1	4972.5	4458.9	4074.6	3979.5	3930.1	3888.2	3835.0
25°	6444.9	6441.1	5942.7	5303.5	4535.0	4032.8	3800.7	3793.1	3770.3	3755.1	3827.4
27.5°	6654.1	6566.6	5862.8	4945.9	4082.3	3709.4	3583.9	3667.6	3701.8	3679.0	3709.4
30°	6985.1	6840.5	5748.6	4565.4	3682.8	3382.2	3405.0	3519.2	3576.3	3610.5	3564.8
32.5°	7335.1	7114.5	5512.8	4169.8	3329.0	3176.8	3230.0	3348.0	3416.5	3454.5	3496.4
35°	7841.1	7327.5	5273.1	3652.3	3074.1	3051.2	3081.7	3146.3	3245.3	3271.9	3283.3
37.5°	8465.1	7650.9	4949.7	3237.6	2876.2	2902.9	2933.3	2956.1	2959.9	3009.4	2990.4
40°	9089.0	7924.8	4477.9	2842.0	2670.8	2815.3	2800.1	2758.3	2724.0	2678.4	2667.0
42.5°	9636.9	8164.5	3952.9	2507.2	2488.2	2724.0	2674.6	2568.1	2488.2	2453.9	2396.8
45°	10253.2	8503.1	3424.1	2297.9	2347.4	2613.7	2598.5	2434.9	2332.2	2210.4	2195.2
47.5°	11052.1	8856.9	2918.1	2081.1	2214.2	2571.9	2579.5	2370.2	2221.8	2058.2	2035.4
50°	12075.6	9366.7	2533.8	1989.8	2134.3	2511.0	2522.4	2282.7	2088.7	1921.3	1906.1
52.5°	13057.1	9888.0	2214.2	1849.0	2081.1	2438.7	2465.3	2202.8	1978.4	1769.1	1780.5
55°	13551.7	9697.7	1940.3	1746.3	1959.3	2320.8	2419.7	2145.8	1811.0	1666.4	1662.6
57.5°	13662.0	9229.8	1723.4	1639.7	1856.6	2195.2	2343.6	1974.5	1734.9	1613.1	1597.9
60°	13300.6	8411.8	1552.2	1525.6	1727.3	2065.9	2168.6	1883.2	1658.8	1559.9	1537.0
62.5°	12410.4	7563.4	1434.3	1472.4	1616.9	1925.1	2058.2	1818.6	1586.5	1518.0	1468.5
65°	10177.1	6220.4	1339.2	1369.6	1502.8	1788.1	1989.8	1746.3	1521.8	1457.1	1453.3
67.5°	7049.8	4287.7	1263.1	1320.2	1411.5	1689.2	1921.3	1666.4	1438.1	1415.3	1384.8
70°	3610.5	2286.5	1164.2	1209.8	1312.6	1563.7	1799.5	1582.7	1350.6	1346.8	1308.8
72.5°	1830.0	1339.2	1050.0	1118.5	1190.8	1400.1	1647.4	1472.4	1240.3	1198.4	1137.6
73°	1582.7	1240.3	1031.0	1091.9	1160.4	1354.4	1601.7	1445.7	1225.1	1164.2	1107.1
75°	1152.8	977.8	924.5	985.4	1038.6	1221.3	1449.5	1324.0	1126.1	1061.5	1008.2
77.5°	863.6	753.3	768.5	837.0	882.6	1053.9	1289.7	1198.4	1019.6	932.1	909.3
80°	635.4	574.5	635.4	700.0	734.3	928.3	1175.6	1038.6	859.8	760.9	741.9
82.5°	452.7	418.5	490.8	532.6	547.9	768.5	1057.7	829.4	650.6	521.2	479.4
85°	258.7	254.9	331.0	327.2	338.6	448.9	696.2	551.7	418.5	319.6	312.0
87.5°	114.1	125.5	167.4	133.2	140.8	213.1	296.8	205.4	171.2	95.1	72.3
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)