

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: P478133

Luminaire Tested: **IFLD-S-SA6B-735-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478133  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-735-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

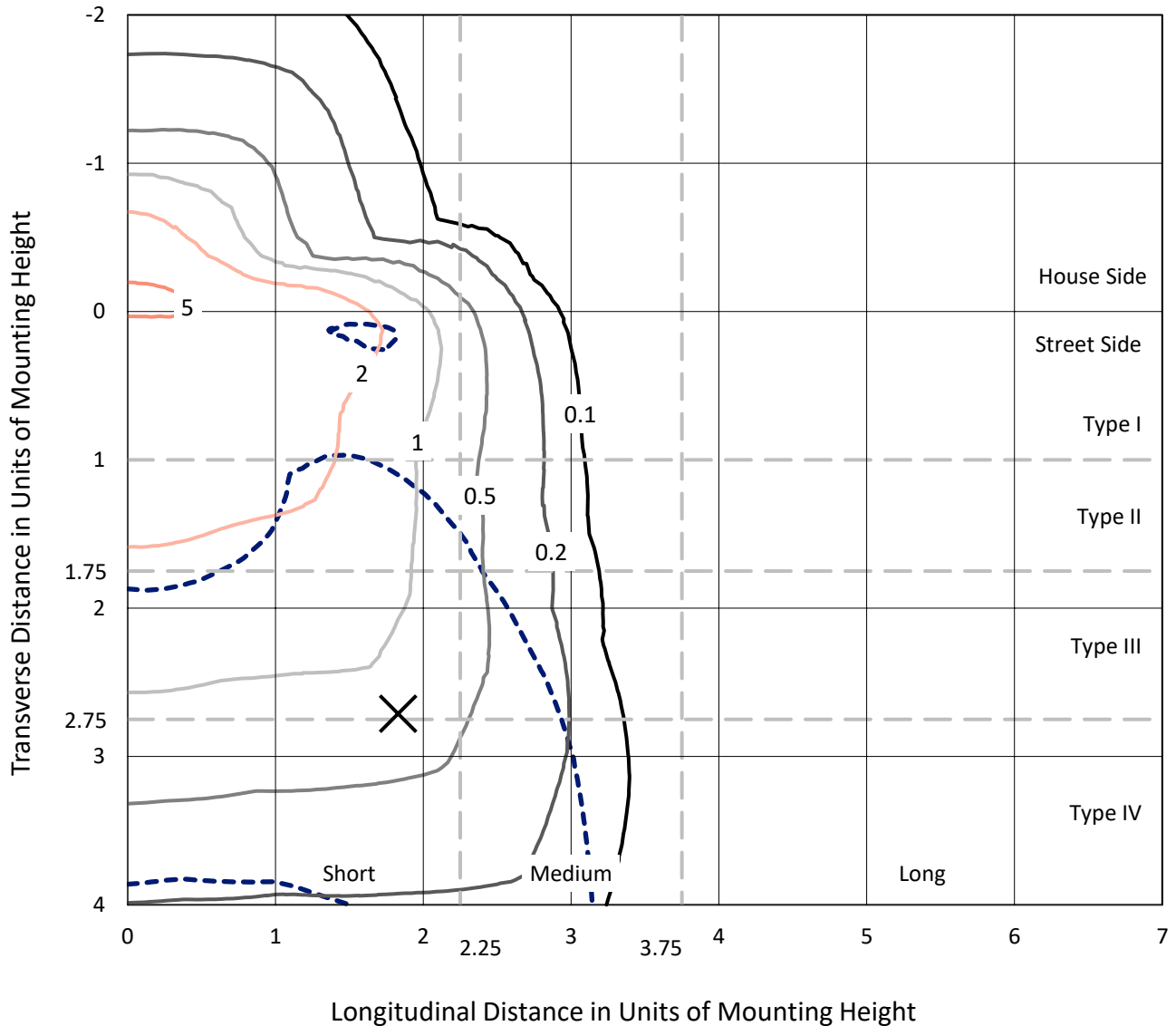
Lumens per Lamp: N/A  
Luminaire Lumens: 33728.7 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 244.9  
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

REPORT NUMBER: P478133  
 CATALOG NUMBER: IFLD-S-SA6B-735-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

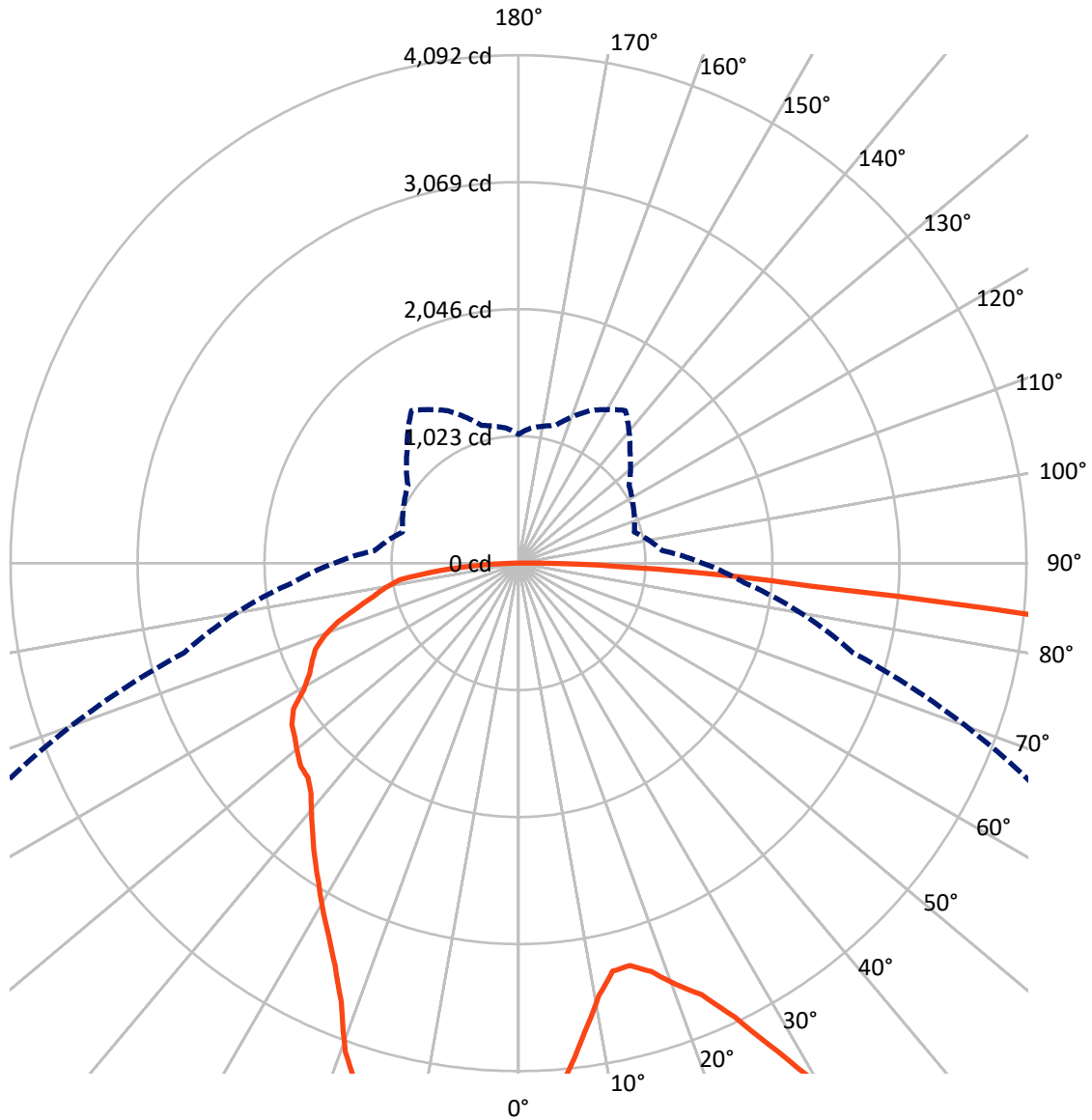
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478133  
CATALOG NUMBER: IFLD-S-SA6B-735-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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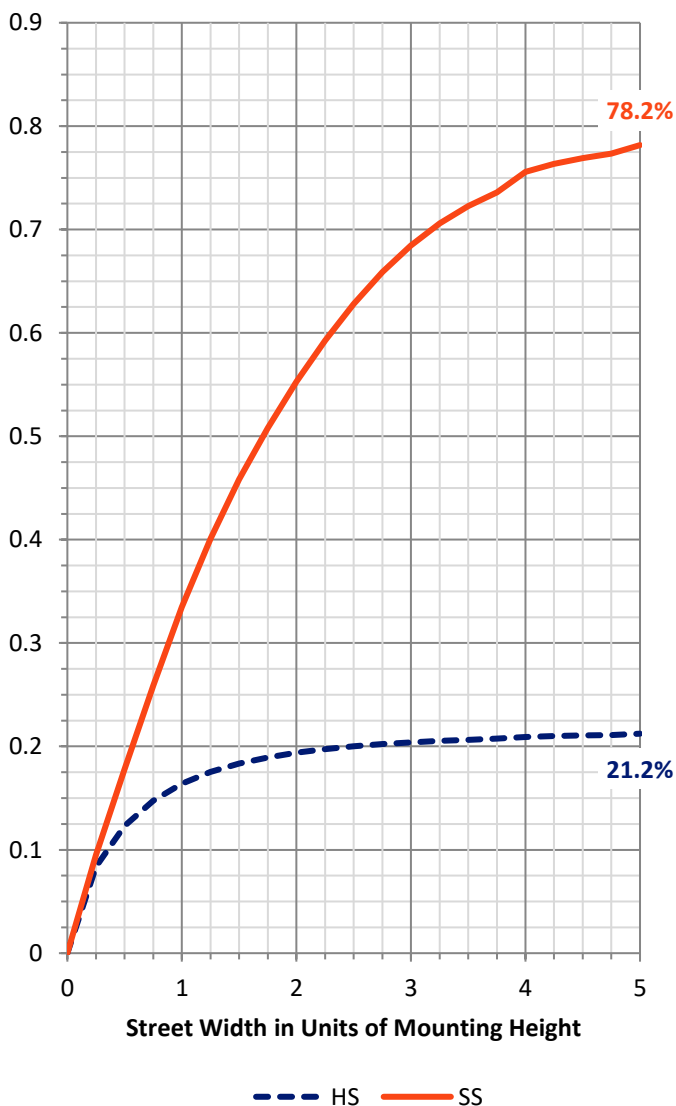
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7285.8	0.0	7285.8
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	26442.9	0.0	26442.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	33728.7	0.0	33728.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.3	1.3
10°-20°	1249.0	3.7
20°-30°	2055.7	6.1
30°-40°	3074.2	9.1
40°-50°	4557.4	13.5
50°-60°	6567.7	19.5
60°-70°	8381.3	24.8
70°-80°	6522.0	19.3
80°-90°	875.0	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°	33728.7	100.0
0°-180°	33728.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478133

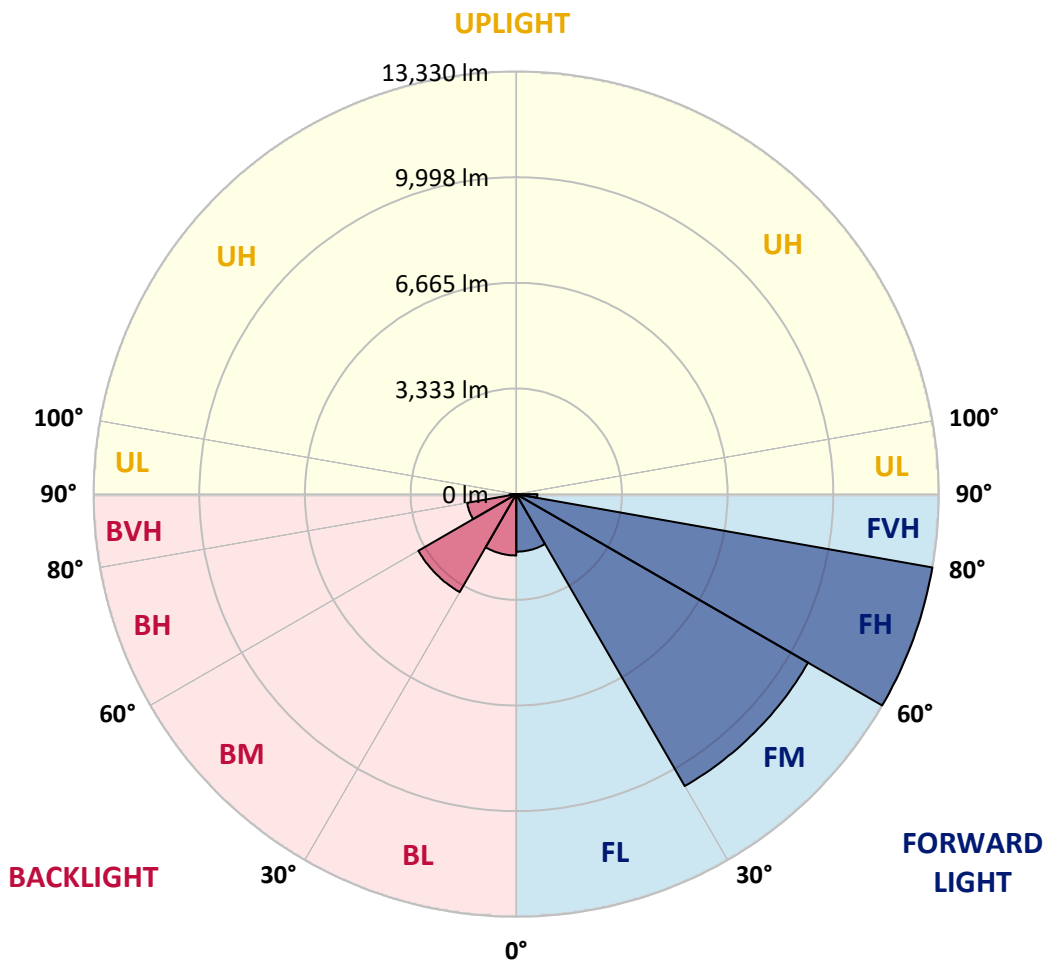
CATALOG NUMBER: IFLD-S-SA6B-735-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.2	5.4			
FM (30°-60°)	10631.5	31.5			
FH (60°-80°)	13330.2	39.5			G5
FVH (80°-90°)	666.0	2.0			G4/750
BL (0°-30°)	1935.8	5.7	B3/2500		
BM (30°-60°)	3567.9	10.6	B3/5000		
BH (60°-80°)	1573.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	209.0	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





REPORT NUMBER: P478133  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5
2.5°	4332.7	4347.0	4393.3	4404.0	4454.0	4425.4	4486.1	4593.0	4653.7	4742.8	4849.8
5°	3990.4	3929.8	3958.3	4068.8	4125.9	4140.2	4204.3	4386.2	4500.3	4632.3	4832.0
7.5°	3587.4	3576.7	3633.8	3705.1	3819.2	3829.9	3972.6	4133.0	4368.4	4660.8	4896.2
10°	3312.8	3359.2	3391.3	3466.2	3544.6	3544.6	3726.5	4004.7	4272.1	4553.8	4910.4
12.5°	3298.6	3270.0	3277.2	3316.4	3373.5	3444.8	3616.0	3865.6	4204.3	4532.4	4971.0
15°	3344.9	3355.6	3291.4	3341.4	3362.8	3387.7	3576.7	3858.4	4161.6	4607.3	5074.5
17.5°	3591.0	3530.4	3430.5	3384.2	3459.0	3459.0	3587.4	3808.5	4168.7	4646.5	5224.2
20°	3783.6	3783.6	3619.5	3569.6	3623.1	3612.4	3701.5	3865.6	4204.3	4725.0	5391.8
22.5°	4108.1	4154.4	3883.4	3780.0	3776.4	3805.0	3883.4	4022.5	4304.2	4835.5	5552.3
25°	4575.2	4585.9	4272.1	4165.1	4051.0	4097.4	4111.6	4250.7	4393.3	4963.9	5734.2
27.5°	5095.9	5088.7	4799.9	4532.4	4457.5	4468.2	4389.8	4482.5	4525.3	5003.1	5994.5
30°	5673.6	5609.4	5391.8	5013.8	4953.2	4885.5	4714.3	4710.7	4799.9	5224.2	6354.7
32.5°	6051.6	5969.5	5819.8	5548.7	5381.1	5388.3	5117.3	5113.7	5035.2	5466.7	6668.5
35°	6422.4	6297.6	6258.4	5980.2	5812.6	5830.5	5612.9	5584.4	5441.8	5834.0	7185.6
37.5°	6868.2	6757.6	6818.2	6607.9	6401.0	6315.4	6215.6	6179.9	5994.5	6351.1	7891.6
40°	7360.3	7324.6	7285.4	7182.0	7057.2	7064.3	6957.3	6921.7	6647.1	6975.2	8569.2
42.5°	8023.6	7888.1	7684.8	7752.5	7816.7	7884.5	7848.8	7756.1	7470.8	7609.9	9325.2
45°	8640.5	8462.2	8087.8	8109.2	8373.0	8426.5	8858.0	8847.3	8273.2	8415.8	10184.6
47.5°	9057.7	8975.7	8751.0	8726.1	9104.1	9100.5	9877.9	9877.9	9118.3	9218.2	11108.2
50°	9678.2	9464.2	9368.0	9492.8	9685.3	9817.3	10919.2	10986.9	9949.2	10056.2	12317.1
52.5°	10405.7	10138.2	9895.7	10216.7	10559.0	10644.6	11949.8	11921.2	10587.5	11029.7	13732.8
55°	11008.3	10872.8	10705.2	10890.7	11450.5	11557.5	12983.9	12720.0	11225.9	11835.7	14413.9
57.5°	11710.8	11792.9	11828.5	11782.2	12449.0	12616.6	14164.3	13408.3	11775.0	12377.7	14813.3
60°	12770.0	12819.9	12866.2	12976.8	13682.9	13918.2	15098.6	14271.3	12120.9	12691.5	14845.4
62.5°	14381.8	14189.2	14292.6	14674.2	15241.2	15508.7	16475.1	14877.5	12384.8	12880.5	13797.0
65°	16225.4	15965.1	15858.1	16350.2	17819.5	17605.5	18193.9	15330.4	12003.3	12174.4	11700.1
67.5°	18094.0	18122.6	17848.0	18835.8	20636.6	20636.6	19791.5	15547.9	10969.1	9867.2	8205.4
70°	19577.5	19666.7	19816.4	21731.4	24584.2	25015.7	21770.6	14656.4	8861.6	6568.6	4486.1
72.5°	19556.1	19288.7	20055.4	23582.2	28171.6	27811.5	22184.3	11589.6	5530.9	3216.6	2057.6
73°	19117.5	18892.8	19730.8	23564.3	28317.8	27979.1	21881.2	10683.8	4878.3	2788.6	1829.4
75°	15612.1	15205.6	16632.0	21342.7	26199.6	26459.9	18589.7	6968.0	2674.5	1718.8	1287.3
77.5°	7117.8	7296.1	9154.0	14317.6	20190.9	20497.5	12220.8	3013.3	1465.6	1205.3	948.6
80°	2285.8	2399.9	3562.5	7117.8	12655.8	13208.6	5648.6	1369.4	1044.8	923.6	709.6
82.5°	873.7	870.1	1494.2	2959.8	5998.1	6351.1	2064.7	834.5	777.4	681.1	502.8
85°	306.7	320.9	563.4	1169.7	2360.7	2471.3	716.8	463.6	538.5	456.5	288.8
87.5°	107.0	110.5	199.7	424.4	813.1	859.4	199.7	185.4	267.5	263.9	146.2
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°	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5
2.5°	4885.5	4917.6	4928.3	5056.6	5056.6	5056.6	5106.6	5106.6	5092.3	5056.6	5142.2
5°	4906.9	4963.9	5074.5	5185.0	5213.5	5238.5	5306.3	5249.2	5270.6	5234.9	5267.0
7.5°	4967.5	5045.9	5252.8	5320.5	5274.2	5327.6	5256.3	5217.1	5177.9	5192.1	5142.2
10°	5070.9	5170.7	5267.0	5391.8	5302.7	5249.2	5103.0	5067.3	4942.5	4899.7	4939.0
12.5°	5199.3	5320.5	5484.6	5438.2	5267.0	5113.7	4956.8	4807.0	4732.1	4625.1	4653.7
15°	5327.6	5466.7	5491.7	5413.2	5199.3	5006.7	4721.4	4511.0	4436.1	4339.9	4389.8
17.5°	5466.7	5598.7	5555.9	5352.6	5063.8	4771.3	4446.8	4240.0	4083.1	4022.5	4022.5
20°	5673.6	5737.7	5670.0	5252.8	4899.7	4514.6	4200.8	3965.4	3808.5	3783.6	3744.3
22.5°	5834.0	5937.4	5634.3	5106.6	4660.8	4179.4	3819.2	3730.1	3683.7	3644.5	3594.6
25°	6040.9	6037.3	5570.1	4971.0	4250.7	3780.0	3562.5	3555.3	3533.9	3519.7	3587.4
27.5°	6237.0	6155.0	5495.3	4635.8	3826.4	3476.9	3359.2	3437.7	3469.7	3448.4	3476.9
30°	6547.2	6411.7	5388.3	4279.2	3451.9	3170.2	3191.6	3298.6	3352.1	3384.2	3341.4
32.5°	6875.3	6668.5	5167.2	3908.4	3120.3	2977.6	3027.6	3138.1	3202.3	3238.0	3277.2
35°	7349.6	6868.2	4942.5	3423.4	2881.4	2860.0	2888.5	2949.1	3041.8	3066.8	3077.5
37.5°	7934.4	7171.3	4639.4	3034.7	2695.9	2720.9	2749.4	2770.8	2774.4	2820.7	2802.9
40°	8519.2	7428.0	4197.2	2663.8	2503.4	2638.9	2624.6	2585.4	2553.3	2510.5	2499.8
42.5°	9032.8	7652.7	3705.1	2350.0	2332.2	2553.3	2506.9	2407.1	2332.2	2300.1	2246.6
45°	9610.5	7970.1	3209.4	2153.9	2200.2	2449.9	2435.6	2282.3	2186.0	2071.9	2057.6
47.5°	10359.3	8301.7	2735.1	1950.6	2075.4	2410.6	2417.8	2221.6	2082.6	1929.2	1907.8
50°	11318.6	8779.6	2375.0	1865.0	2000.5	2353.6	2364.3	2139.6	1957.8	1800.8	1786.6
52.5°	12238.6	9268.1	2075.4	1733.1	1950.6	2285.8	2310.8	2064.7	1854.3	1658.2	1668.9
55°	12702.2	9089.8	1818.7	1636.8	1836.5	2175.3	2268.0	2011.2	1697.4	1561.9	1558.4
57.5°	12805.6	8651.2	1615.4	1537.0	1740.2	2057.6	2196.7	1850.8	1626.1	1512.0	1497.7
60°	12466.8	7884.5	1454.9	1430.0	1619.0	1936.4	2032.6	1765.2	1554.8	1462.1	1440.7
62.5°	11632.4	7089.3	1344.4	1380.1	1515.6	1804.4	1929.2	1704.6	1487.0	1422.8	1376.5
65°	9539.1	5830.5	1255.2	1283.8	1408.6	1676.0	1865.0	1636.8	1426.4	1365.8	1362.2
67.5°	6607.9	4018.9	1183.9	1237.4	1323.0	1583.3	1800.8	1561.9	1348.0	1326.6	1298.0
70°	3384.2	2143.2	1091.2	1134.0	1230.3	1465.6	1686.7	1483.5	1265.9	1262.4	1226.7
72.5°	1715.3	1255.2	984.2	1048.4	1116.2	1312.3	1544.1	1380.1	1162.5	1123.3	1066.2
73°	1483.5	1162.5	966.4	1023.5	1087.6	1269.5	1501.3	1355.1	1148.3	1091.2	1037.7
75°	1080.5	916.5	866.5	923.6	973.5	1144.7	1358.7	1241.0	1055.5	994.9	945.0
77.5°	809.5	706.1	720.3	784.5	827.3	987.8	1208.9	1123.3	955.7	873.7	852.3
80°	595.5	538.5	595.5	656.1	688.2	870.1	1101.9	973.5	805.9	713.2	695.4
82.5°	424.4	392.3	460.0	499.2	513.5	720.3	991.4	777.4	609.8	488.5	449.3
85°	242.5	238.9	310.2	306.7	317.4	420.8	652.6	517.1	392.3	299.5	292.4
87.5°	107.0	117.7	156.9	124.8	131.9	199.7	278.2	192.6	160.5	89.2	67.8
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)