

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: P478461

Luminaire Tested: **IFLD-L-SA8C-727-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478461  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-727-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

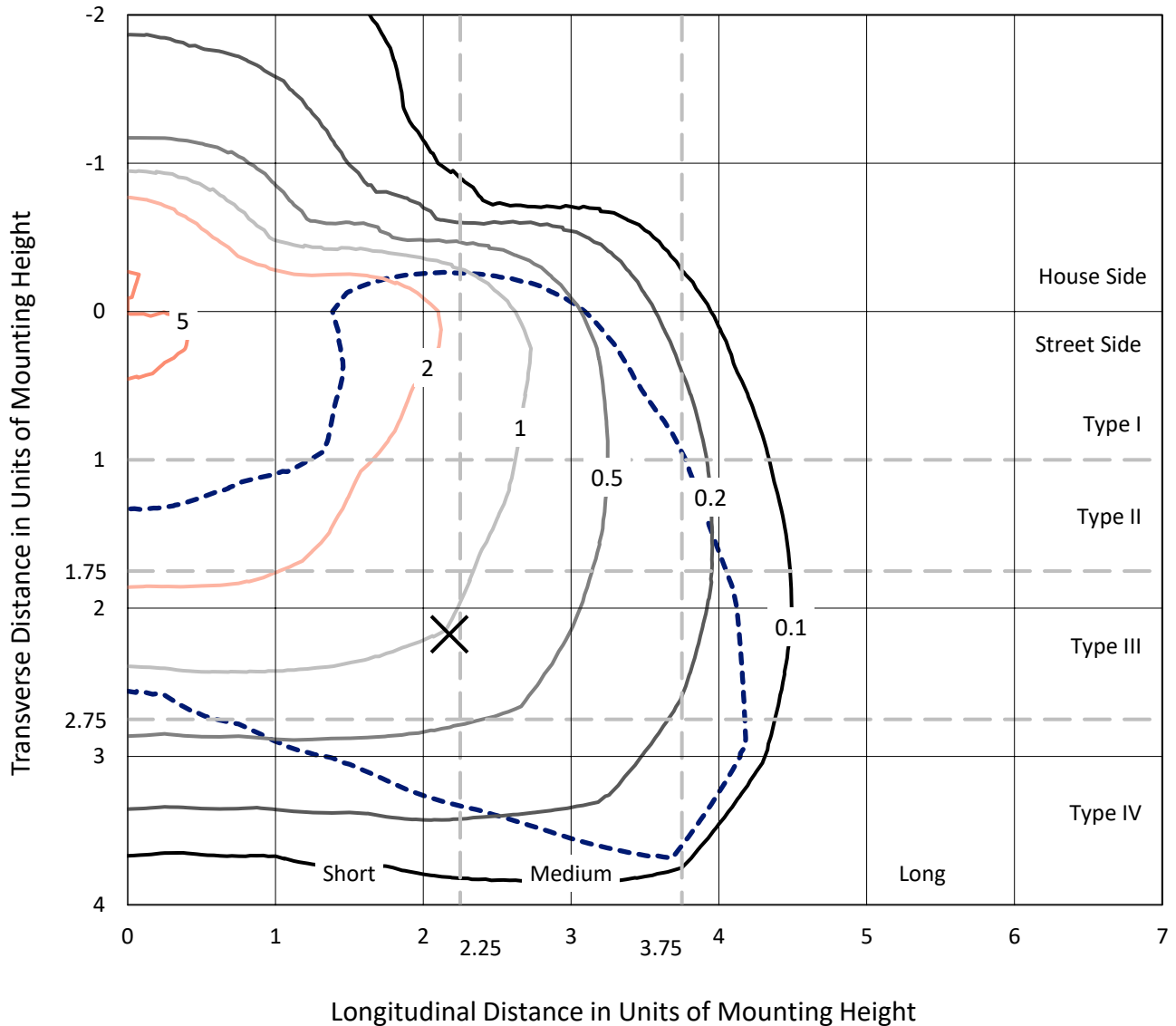
Lumens per Lamp: N/A  
Luminaire Lumens: 42827 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3  
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

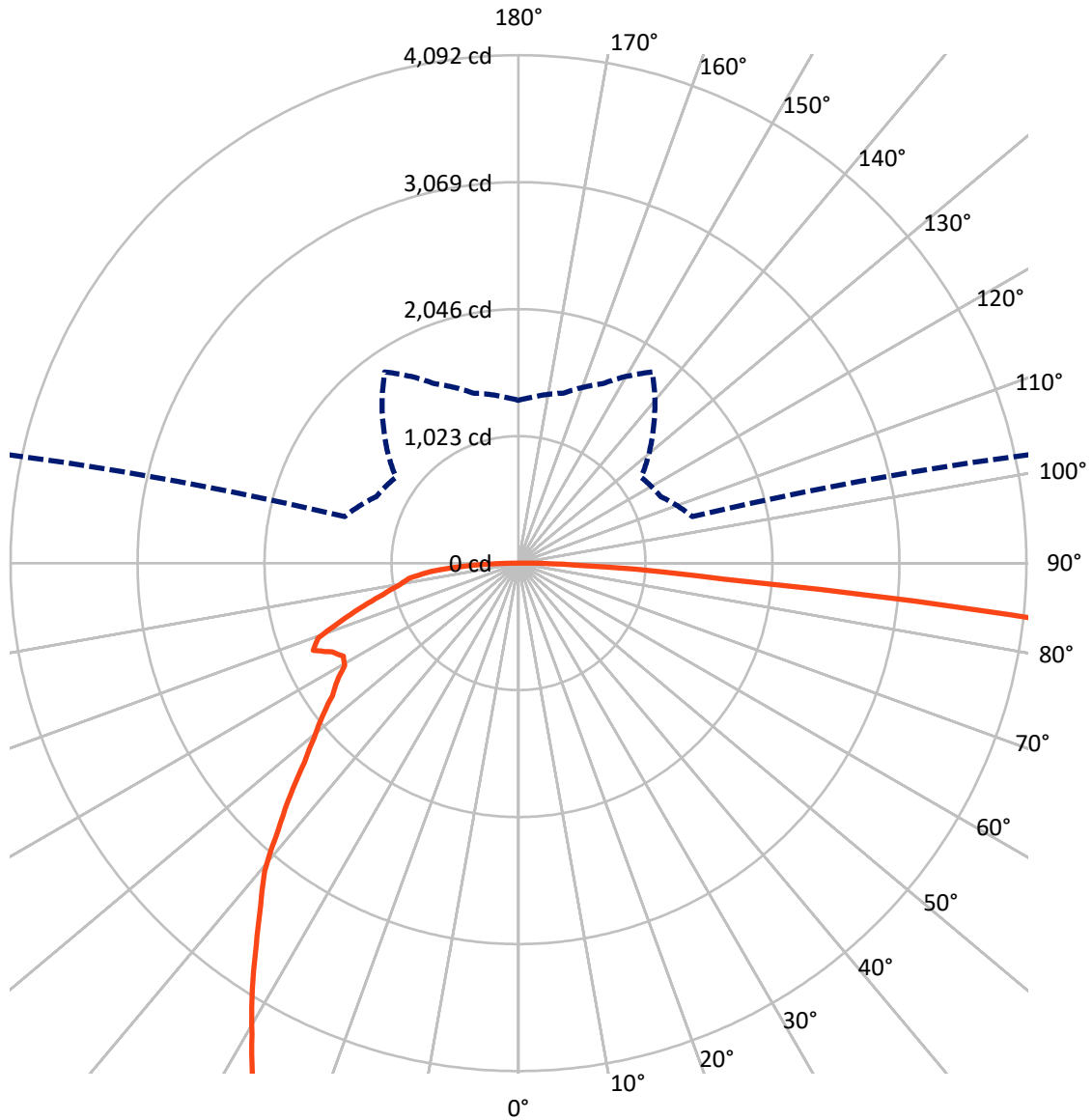
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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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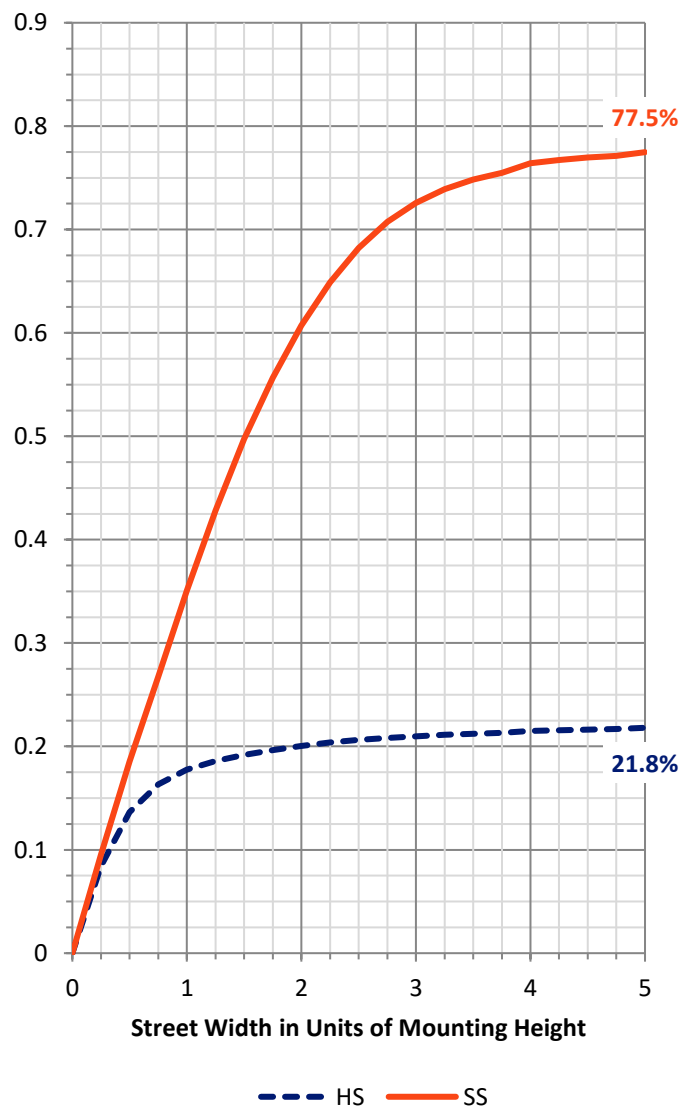
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9533.5	0.0	9533.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	33293.5	0.0	33293.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	42827.0	0.0	42827.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.3	1.1
10°-20°	1501.5	3.5
20°-30°	2535.7	5.9
30°-40°	3508.9	8.2
40°-50°	5019.2	11.7
50°-60°	8095.4	18.9
60°-70°	11939.6	27.9
70°-80°	8670.2	20.2
80°-90°	1105.2	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°	42827.0	100.0
0°-180°	42827.0	100.0

**Coefficient of Utilization**



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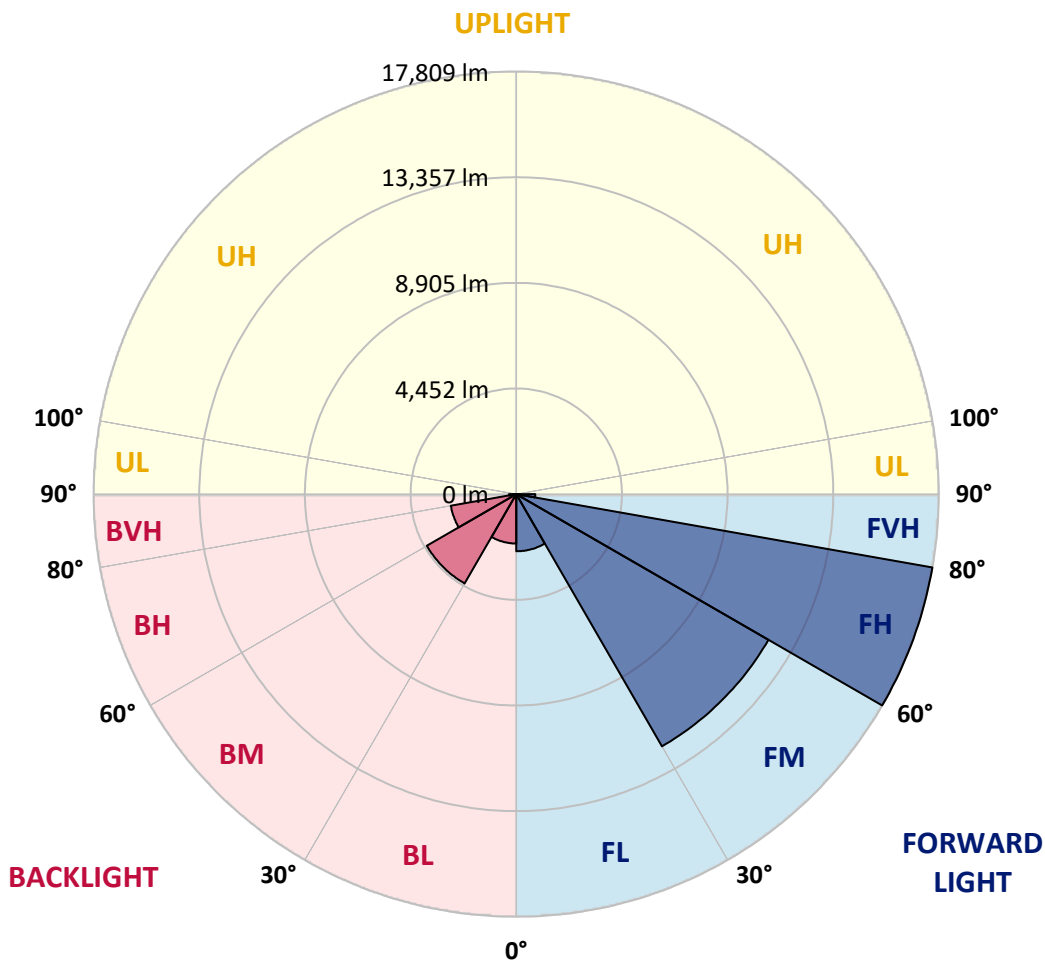
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2406.9	5.6			
FM (30°-60°)	12272.7	28.7			
FH (60°-80°)	17809.4	41.6			G5
FVH (80°-90°)	804.5	1.9			G5
BL (0°-30°)	2081.6	4.9	B3/2500		
BM (30°-60°)	4350.8	10.2	B3/5000		
BH (60°-80°)	2800.4	6.5	B4/5000		G4/5000
BVH (80°-90°)	300.8	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°	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4
2.5°	4645.9	4673.6	4645.9	4641.3	4595.1	4562.8	4590.5	4549.0	4502.8	4484.3	4442.7
5°	5070.8	5075.4	5024.6	5029.3	4932.3	4830.7	4849.1	4724.4	4590.5	4539.7	4456.6
7.5°	5504.9	5454.1	5380.2	5357.1	5204.7	5093.9	5080.1	4969.2	4761.4	4645.9	4530.5
10°	5786.6	5805.1	5685.0	5583.4	5454.1	5320.2	5315.6	5107.8	4987.7	4816.8	4669.0
12.5°	6036.0	6040.6	5939.0	5777.4	5615.8	5449.5	5472.6	5380.2	5177.0	5015.4	4867.6
15°	6230.0	6202.3	6091.4	5943.7	5772.8	5643.5	5629.6	5551.1	5380.2	5246.3	5001.5
17.5°	6285.4	6271.6	6160.7	6003.7	5837.4	5740.5	5777.4	5648.1	5578.8	5458.7	5223.2
20°	6179.2	6146.9	6128.4	5952.9	5832.8	5823.6	5791.3	5819.0	5703.5	5592.7	5421.8
22.5°	5985.2	5971.4	5962.1	5823.6	5768.2	5809.7	5865.2	5906.7	5888.2	5782.0	5588.1
25°	5786.6	5851.3	5791.3	5726.6	5805.1	5911.3	5897.5	6031.4	6031.4	5999.1	5837.4
27.5°	5925.2	5883.6	5837.4	5805.1	5832.8	5999.1	5989.8	6151.5	6211.5	6151.5	5966.8
30°	6271.6	6230.0	6096.1	5952.9	5916.0	6096.1	6142.2	6285.4	6313.1	6165.3	6008.3
32.5°	6922.7	6899.6	6687.2	6266.9	6040.6	6142.2	6165.3	6327.0	6303.9	6211.5	6146.9
35°	7887.9	7809.4	7513.9	6802.7	6303.9	6202.3	6142.2	6271.6	6359.3	6313.1	6253.1
37.5°	8945.5	8857.8	8492.9	7592.4	6779.6	6363.9	6317.7	6424.0	6525.6	6502.5	6377.8
40°	9956.9	9956.9	9629.0	8580.7	7486.1	6756.5	6765.7	6645.6	6738.0	6696.4	6719.5
42.5°	10954.4	10917.5	10783.6	9739.8	8243.5	7412.3	7264.5	6964.3	7130.5	7116.7	7149.0
45°	11965.8	11938.1	11901.2	10820.5	9328.8	8299.0	8220.4	7680.1	7832.5	7767.9	7906.4
47.5°	12774.0	12806.3	12806.3	12025.9	10488.0	9481.2	9365.8	8511.4	8802.3	8834.7	8867.0
50°	13462.1	13476.0	13462.1	13175.8	11781.1	10834.4	10598.8	9730.6	10021.6	10275.6	10571.1
52.5°	14413.5	14432.0	14367.3	14256.5	13536.0	12256.8	11993.5	11028.3	11624.1	11891.9	12423.0
55°	15586.5	15448.0	15327.9	15411.0	15221.7	13822.4	13549.9	12367.6	13263.6	13619.2	14681.3
57.5°	15803.6	15923.7	16228.5	16888.9	17161.3	15346.4	15189.4	14011.7	15115.5	15424.9	17198.3
60°	16570.2	16371.6	17119.8	18551.4	18856.2	17332.2	17170.6	15812.8	16958.1	17281.4	19521.3
62.5°	17073.6	17064.4	18172.7	19872.2	20565.0	19391.9	19064.0	18154.3	18948.6	19262.6	22052.0
65°	16925.8	17059.7	19027.1	20648.1	21992.0	21733.4	21544.0	20167.8	21216.1	21188.4	23700.7
67.5°	15577.3	15956.0	18486.8	21206.9	24116.4	24587.4	24527.4	22998.8	23058.8	22472.3	24435.0
70°	13706.9	13577.6	16200.7	20625.0	25178.6	27972.6	27958.8	25104.7	24716.8	22754.0	22329.1
72°	10529.6	10386.4	12543.1	17710.9	24619.8	29325.8	29741.4	26564.0	24698.3	21585.6	18445.2
72.5°	9559.7	9435.0	11582.5	16671.8	24000.9	29676.7	29482.8	26619.5	24504.3	21036.0	17230.6
75°	4401.2	4258.0	5786.6	10206.3	18722.3	26296.2	26956.6	24910.7	21400.9	16745.7	10321.7
77.5°	1311.6	1270.0	1861.1	4119.5	10880.5	19373.5	19627.5	18796.2	14940.0	9171.8	3828.5
80°	729.7	734.3	960.6	1542.5	4784.5	11199.2	12113.6	11610.2	7329.1	3029.6	1274.6
82.5°	406.4	429.5	600.4	914.4	2198.3	5140.1	5532.6	5334.1	2650.9	1422.4	697.4
85°	212.4	221.7	314.0	489.5	1246.9	1625.6	1671.8	1791.9	1376.2	969.8	374.1
87.5°	83.1	83.1	115.5	203.2	461.8	503.4	452.6	549.6	789.7	628.1	184.7
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°	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4	4410.4
2.5°	4479.7	4442.7	4438.1	4378.1	4396.6	4345.8	4350.4	4341.1	4345.8	4336.5	4313.4
5°	4456.6	4428.9	4350.4	4401.2	4355.0	4419.6	4470.4	4452.0	4465.8	4461.2	4465.8
7.5°	4488.9	4452.0	4442.7	4415.0	4456.6	4484.3	4525.9	4641.3	4632.1	4645.9	4673.6
10°	4585.9	4544.3	4516.6	4558.2	4535.1	4622.8	4669.0	4729.1	4835.3	4839.9	4784.5
12.5°	4775.2	4747.5	4692.1	4701.4	4779.9	4807.6	4835.3	4872.2	4941.5	4927.6	4978.5
15°	4992.3	4932.3	4899.9	4890.7	4909.2	4941.5	4936.9	4973.8	5010.8	5043.1	5029.3
17.5°	5149.3	5070.8	5080.1	5126.2	5121.6	5112.4	5052.3	5033.9	5052.3	5070.8	5061.6
20°	5311.0	5320.2	5250.9	5209.4	5190.9	5098.5	5052.3	4996.9	4941.5	4969.2	5010.8
22.5°	5514.2	5472.6	5371.0	5246.3	5153.9	5098.5	4955.4	4858.4	4858.4	4886.1	4872.2
25°	5745.1	5657.3	5481.8	5255.5	5140.1	4904.6	4803.0	4789.1	4752.2	4793.7	4812.2
27.5°	5925.2	5846.7	5606.5	5223.2	4904.6	4715.2	4655.2	4636.7	4696.7	4701.4	4775.2
30°	5999.1	5976.0	5625.0	5140.1	4664.4	4359.6	4322.7	4405.8	4470.4	4567.4	4572.0
32.5°	6096.1	6105.3	5652.7	4946.1	4350.4	4045.6	3990.1	4091.8	4276.5	4355.0	4415.0
35°	6257.7	6303.9	5629.6	4706.0	4017.9	3726.9	3717.7	3745.4	3925.5	4064.0	4142.6
37.5°	6539.4	6530.2	5625.0	4419.6	3754.6	3449.8	3375.9	3385.2	3505.2	3620.7	3606.8
40°	6918.1	6881.2	5611.1	4045.6	3412.9	3214.3	3089.6	3043.4	3034.2	3001.8	3011.1
42.5°	7435.3	7361.5	5606.5	3666.9	3103.4	2891.0	2803.3	2683.2	2595.4	2429.2	2438.4
45°	8155.8	8026.5	5486.5	3311.3	2798.6	2623.2	2489.2	2401.5	2212.1	2004.3	2004.3
47.5°	9268.8	8848.5	5491.1	2918.7	2503.1	2359.9	2267.6	2115.1	1911.9	1745.7	1727.2
50°	10908.3	9947.7	5334.1	2609.3	2262.9	2165.9	2069.0	1893.5	1699.5	1584.1	1597.9
52.5°	13023.4	11587.1	5329.4	2332.2	2073.6	2004.3	1898.1	1741.1	1597.9	1524.0	1496.3
55°	15545.0	13757.7	5495.7	2105.9	1879.6	1842.7	1796.5	1667.2	1528.6	1464.0	1459.4
57.5°	18126.5	15877.5	5763.5	1944.3	1713.4	1741.1	1708.7	1607.1	1496.3	1422.4	1413.2
60°	20421.8	17558.5	5223.2	1750.3	1565.6	1625.6	1671.8	1584.1	1524.0	1519.4	1487.1
62.5°	22153.6	18278.9	3971.7	1602.5	1487.1	1597.9	1722.6	1778.0	1750.3	1787.3	1791.9
65°	22786.3	17844.8	2734.0	1524.0	1427.0	1662.6	1939.7	1921.2	1759.5	1690.3	1727.2
67.5°	21899.6	16085.3	2027.4	1431.7	1385.5	1796.5	2064.3	1833.4	1588.7	1579.4	1551.7
70°	18833.1	13633.0	1653.3	1334.7	1316.2	1722.6	2008.9	1699.5	1496.3	1436.3	1408.6
72°	15004.6	10617.3	1450.1	1265.4	1205.4	1537.9	1879.6	1593.3	1417.8	1343.9	1311.6
72.5°	13697.7	9841.4	1422.4	1233.1	1182.3	1496.3	1815.0	1561.0	1399.3	1334.7	1283.9
75°	7513.9	5038.5	1251.5	1131.5	997.5	1293.1	1681.0	1464.0	1320.8	1228.4	1219.2
77.5°	2794.0	1953.5	1080.7	1002.2	863.6	1117.6	1528.6	1390.1	1200.7	1085.3	1062.2
80°	1071.4	1029.9	882.1	845.1	725.1	979.1	1408.6	1246.9	1020.6	905.2	868.2
82.5°	651.2	600.4	669.6	660.4	554.2	891.3	1325.4	1168.4	905.2	734.3	711.2
85°	355.6	355.6	466.4	448.0	387.9	711.2	1002.2	775.9	572.7	471.1	480.3
87.5°	157.0	184.7	249.4	235.5	212.4	401.8	489.5	411.0	286.3	194.0	207.8
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)