

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: P480794

Luminaire Tested: **IFLD-L-SA7A-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480794  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

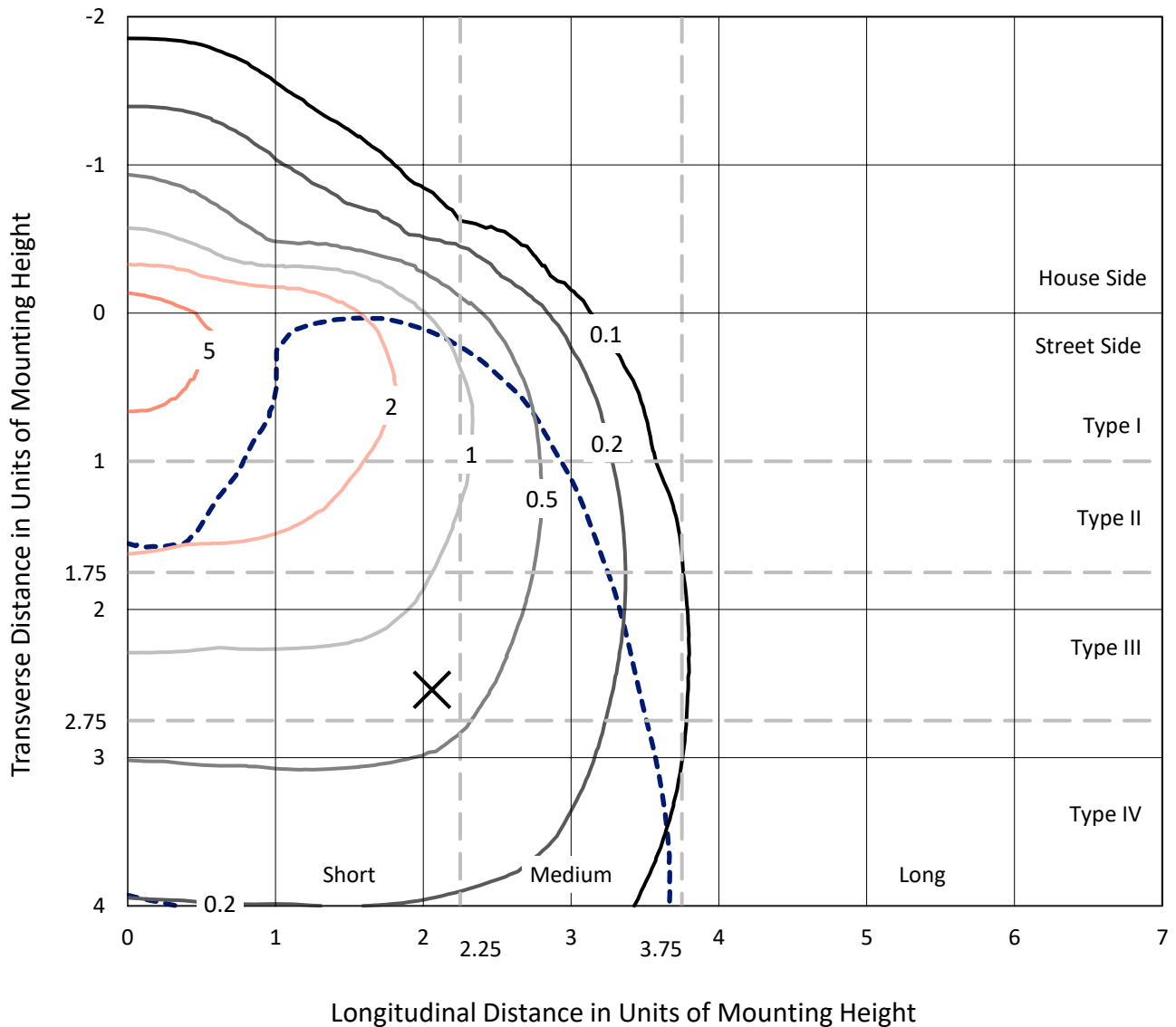
Lumens per Lamp: N/A  
Luminaire Lumens: 25320.1 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 217.6  
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

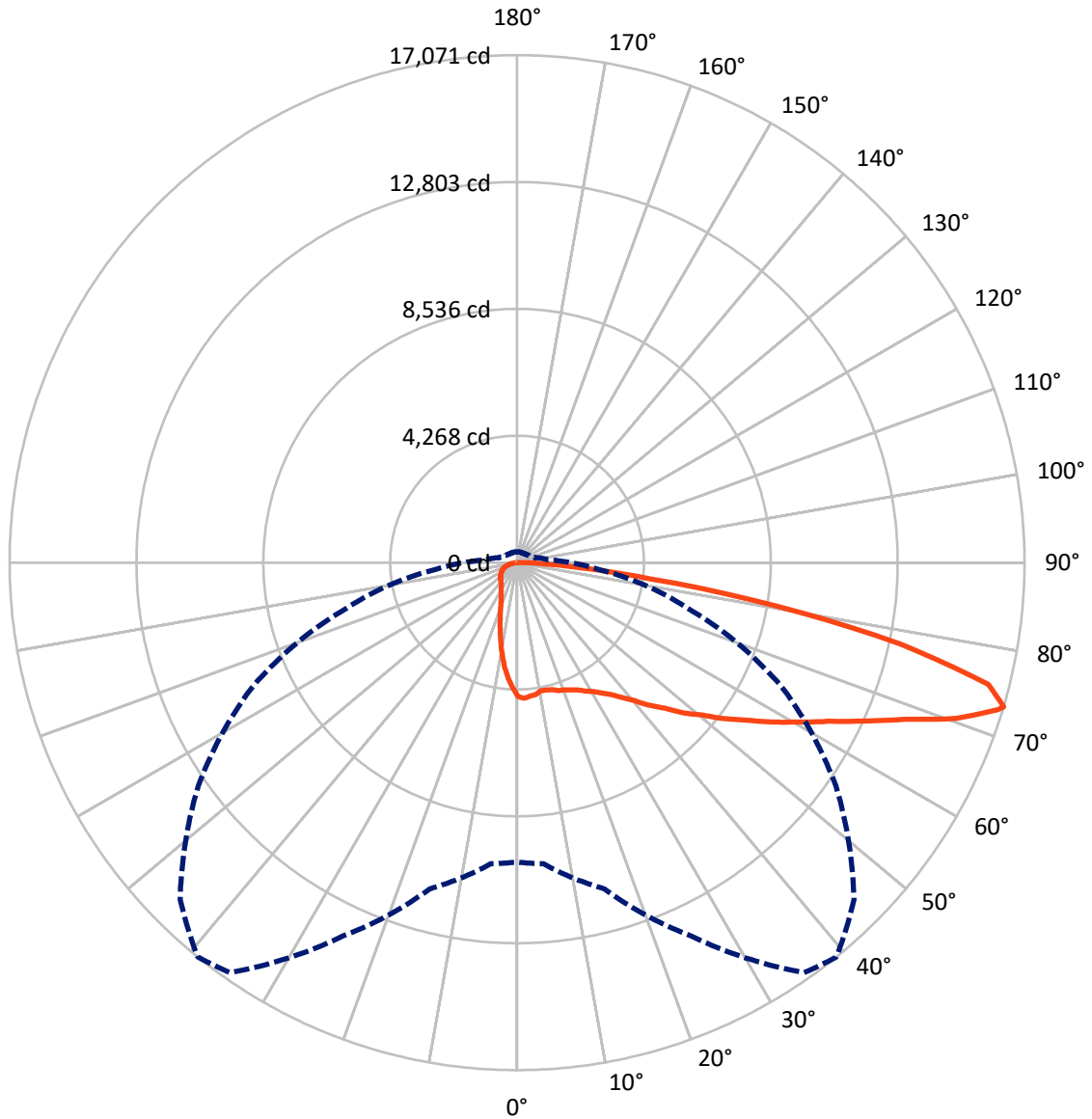
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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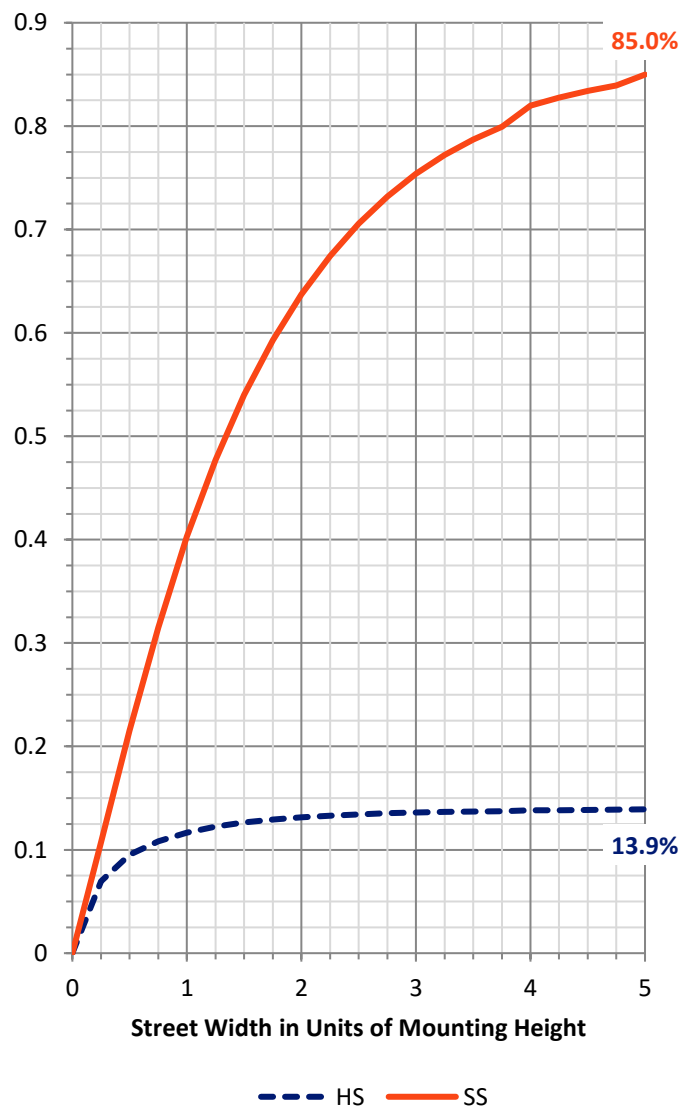
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3559.3	0.0	3559.3
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	21760.8	0.0	21760.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	25320.1	0.0	25320.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.3	1.5
10°-20°	994.6	3.9
20°-30°	1519.9	6.0
30°-40°	2216.1	8.8
40°-50°	3348.7	13.2
50°-60°	4849.1	19.2
60°-70°	6161.0	24.3
70°-80°	4994.5	19.7
80°-90°	845.0	3.3
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°	25320.1	100.0
0°-180°	25320.1	100.0

**Coefficient of Utilization**



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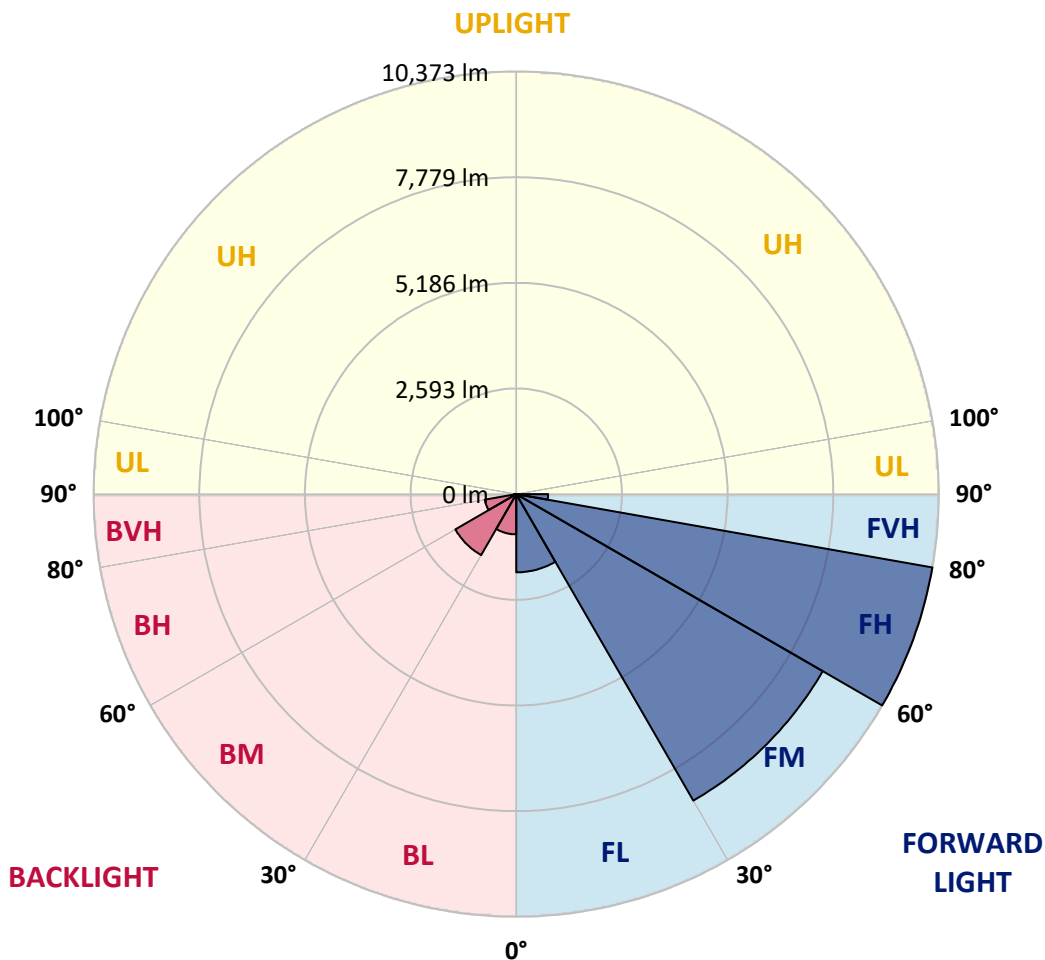
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1918.7	7.6			
FM (30°-60°)	8686.4	34.3			
FH (60°-80°)	10372.7	41.0			G4/12000
FVH (80°-90°)	783.0	3.1			G5
BL (0°-30°)	987.1	3.9	B2/1000		
BM (30°-60°)	1727.4	6.8	B2/2500		
BH (60°-80°)	782.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	62.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1
2.5°	4614.8	4566.6	4575.1	4558.1	4575.1	4569.5	4561.0	4518.5	4561.0	4518.5	4507.1
5°	4552.5	4552.5	4580.8	4538.3	4544.0	4515.6	4544.0	4512.8	4484.5	4413.7	4393.8
7.5°	4532.6	4529.8	4532.6	4473.1	4501.5	4484.5	4456.1	4422.1	4365.5	4320.2	4255.0
10°	4396.7	4425.0	4393.8	4410.8	4433.5	4382.5	4379.7	4371.2	4345.7	4286.2	4246.5
12.5°	4323.0	4371.2	4388.2	4374.0	4393.8	4399.5	4382.5	4371.2	4340.0	4300.3	4187.0
15°	4354.2	4297.5	4345.7	4439.1	4419.3	4433.5	4436.3	4425.0	4410.8	4337.2	4263.5
17.5°	4362.7	4328.7	4430.6	4450.5	4476.0	4527.0	4493.0	4490.1	4436.3	4385.3	4277.7
20°	4382.5	4368.3	4450.5	4555.3	4558.1	4566.6	4583.6	4541.1	4512.8	4425.0	4260.7
22.5°	4456.1	4504.3	4580.8	4626.1	4651.6	4657.3	4657.3	4572.3	4541.1	4470.3	4340.0
25°	4677.1	4626.1	4733.8	4787.6	4750.8	4742.3	4722.4	4645.9	4612.0	4549.6	4376.8
27.5°	4838.6	4835.8	4898.1	4971.7	4872.6	4892.4	4821.6	4798.9	4722.4	4688.4	4442.0
30°	5059.6	5121.9	5119.0	5141.7	5011.4	5034.1	4943.4	4900.9	4858.4	4878.2	4634.6
32.5°	5342.8	5320.2	5357.0	5340.0	5209.7	5229.5	5121.9	5056.7	5070.9	5130.4	4898.1
35°	5524.1	5501.5	5515.6	5515.6	5476.0	5453.3	5408.0	5323.0	5391.0	5501.5	5192.7
37.5°	5719.6	5747.9	5830.1	5813.1	5762.1	5762.1	5756.4	5697.0	5784.8	6056.7	5663.0
40°	5892.4	5968.9	6019.9	6053.9	6113.4	6113.4	6161.5	6127.6	6286.2	6722.5	6238.0
42.5°	6073.7	6076.6	6354.2	6379.7	6512.8	6569.5	6606.3	6634.6	6932.1	7419.4	6852.8
45°	6306.0	6320.2	6563.8	6759.3	6966.1	6985.9	7124.7	7218.2	7583.7	8181.4	7521.3
47.5°	6612.0	6595.0	6855.6	7167.2	7425.0	7561.0	7728.1	7830.1	8280.6	9008.6	8252.2
50°	7014.2	6963.3	7113.4	7603.5	7906.6	8056.8	8354.2	8524.2	9051.1	9799.0	8753.6
52.5°	7504.3	7419.4	7538.3	8073.8	8413.7	8716.8	9000.1	9189.9	9739.5	10410.9	9124.8
55°	8022.8	7847.1	7881.1	8572.3	9062.4	9348.6	9736.7	9935.0	10495.9	10960.5	9495.9
57.5°	8535.5	8425.0	8357.0	9051.1	9835.8	10110.6	10467.5	10725.3	11201.3	11447.7	9810.3
60°	8966.1	8937.8	8827.3	9793.3	10654.5	10889.6	11263.6	11422.2	11782.0	11898.2	9816.0
62.5°	9320.2	9223.9	9399.5	10391.1	11487.4	11753.7	12164.5	12178.6	12433.6	12178.6	9527.0
65°	9597.8	9603.5	9884.0	11113.4	12450.6	12844.3	13175.8	13139.0	12974.7	12011.5	8844.3
67.5°	9850.0	9957.6	10368.4	11906.7	13688.6	14059.7	14427.9	13940.7	13122.0	11229.6	7510.0
70°	10048.3	10155.9	11022.8	12872.7	15147.5	15691.4	15773.6	14258.0	12444.9	9512.9	5665.8
72.5°	10025.6	10221.1	11393.9	13643.2	16442.1	16912.4	16249.5	13365.6	10368.4	6631.8	3306.0
73°	10073.8	10170.1	11362.7	13858.5	16835.9	17071.0	16028.5	13085.1	9779.2	5949.1	2796.1
75°	9144.6	9470.4	10799.0	13507.2	16413.8	16371.3	14759.4	10903.8	6951.9	3124.7	1354.1
77.5°	6765.0	6971.8	8510.0	11107.8	13473.3	13201.3	11133.3	6968.9	3300.3	1158.7	730.9
80°	3306.0	3467.5	4510.0	6413.7	8810.3	8833.0	6909.4	3626.1	1413.6	654.4	498.6
82.5°	1651.6	1747.9	2167.2	2818.7	4334.3	4541.1	3504.3	2062.3	875.4	371.1	283.3
85°	1079.3	1147.3	1334.3	1379.6	1838.5	1940.5	1631.7	1609.1	569.4	201.1	229.5
87.5°	716.7	728.1	818.7	696.9	736.6	708.2	787.5	1014.2	167.1	85.0	62.3
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°	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1	4507.1
2.5°	4493.0	4453.3	4410.8	4351.3	4308.8	4243.7	4184.2	4158.7	4153.0	4155.9	4127.5
5°	4376.8	4320.2	4235.2	4113.4	4042.5	3934.9	3844.2	3796.1	3745.1	3753.6	3730.9
7.5°	4215.3	4153.0	4022.7	3881.1	3705.4	3552.5	3467.5	3348.5	3280.5	3229.5	3257.8
10°	4164.4	4056.7	3861.2	3665.8	3393.8	3192.7	2997.2	2861.2	2767.7	2677.1	2716.7
12.5°	4138.9	4031.2	3759.3	3470.3	3119.0	2813.1	2538.3	2371.1	2238.0	2158.7	2189.8
15°	4116.2	3983.1	3662.9	3255.0	2861.2	2459.0	2150.2	1929.2	1801.7	1725.2	1733.7
17.5°	4147.4	3957.6	3521.3	3045.4	2577.9	2147.3	1804.6	1575.1	1444.8	1396.6	1385.3
20°	4116.2	3929.2	3382.5	2835.7	2294.6	1849.9	1521.3	1331.5	1240.8	1201.1	1192.6
22.5°	4127.5	3861.2	3238.0	2603.4	2031.2	1600.6	1331.5	1187.0	1116.2	1096.3	1102.0
25°	4181.4	3821.6	3093.5	2348.5	1770.6	1416.4	1209.6	1099.2	1048.2	1028.3	1034.0
27.5°	4221.0	3855.6	2963.2	2107.7	1549.6	1252.1	1107.7	1034.0	1000.0	985.8	983.0
30°	4320.2	3875.4	2835.7	1892.4	1368.3	1144.5	1036.8	977.3	954.7	946.2	943.4
32.5°	4467.5	3912.2	2688.4	1694.1	1235.1	1042.5	980.2	929.2	923.5	915.0	917.9
35°	4708.3	4039.7	2524.1	1524.1	1107.7	974.5	920.7	886.7	886.7	886.7	895.2
37.5°	5053.9	4218.2	2376.8	1362.6	1025.5	915.0	869.7	858.4	852.7	861.2	866.9
40°	5498.6	4433.5	2257.8	1235.1	954.7	875.4	835.7	830.0	827.2	824.4	830.0
42.5°	5985.9	4708.3	2155.8	1136.0	903.7	832.9	804.5	798.9	787.5	793.2	801.7
45°	6470.3	5048.2	2065.2	1056.7	869.7	810.2	770.5	767.7	762.0	759.2	773.4
47.5°	7008.6	5382.5	2036.9	1008.5	844.2	776.2	747.9	745.1	728.1	725.2	736.6
50°	7427.9	5629.0	2068.0	985.8	807.4	750.7	730.9	716.7	702.6	688.4	688.4
52.5°	7716.8	5798.9	2090.7	968.9	787.5	716.7	691.2	685.6	671.4	657.2	651.6
55°	7977.4	5900.9	2096.3	971.7	767.7	677.1	660.1	657.2	648.7	626.1	620.4
57.5°	8065.3	5858.4	1983.0	946.2	756.4	651.6	628.9	634.6	623.2	603.4	600.6
60°	8056.8	5563.8	1725.2	912.2	730.9	623.2	594.9	611.9	611.9	589.2	586.4
62.5°	7566.7	4883.9	1410.8	847.0	702.6	594.9	563.7	589.2	597.7	583.6	580.7
65°	6549.7	3977.4	1178.5	781.9	660.1	563.7	532.6	560.9	575.1	569.4	566.6
67.5°	5419.3	3042.5	980.2	696.9	606.2	521.3	495.8	515.6	524.1	526.9	529.8
70°	3830.1	2025.5	818.7	603.4	532.6	475.9	447.6	450.4	447.6	456.1	456.1
72.5°	2082.2	1167.2	665.7	512.8	458.9	413.6	393.8	379.6	379.6	376.8	376.8
73°	1781.9	1048.2	634.6	498.6	439.1	402.3	379.6	368.3	368.3	365.4	362.6
75°	1000.0	767.7	543.9	427.8	379.6	351.3	334.3	317.3	314.5	314.5	314.5
77.5°	657.2	597.7	433.4	342.8	306.0	280.5	274.8	257.8	257.8	257.8	255.0
80°	492.9	470.3	334.3	260.6	235.1	215.3	209.6	198.3	195.5	184.1	187.0
82.5°	328.6	371.1	243.6	184.1	158.6	147.3	147.3	144.5	136.0	121.8	121.8
85°	260.6	303.1	175.6	113.3	93.5	79.3	82.2	79.3	76.5	62.3	59.5
87.5°	48.2	121.8	51.0	31.2	22.7	14.2	14.2	8.5	5.7	0.0	0.0
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)