

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: P480792

Luminaire Tested: **IFLD-M-SA4D-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480792  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

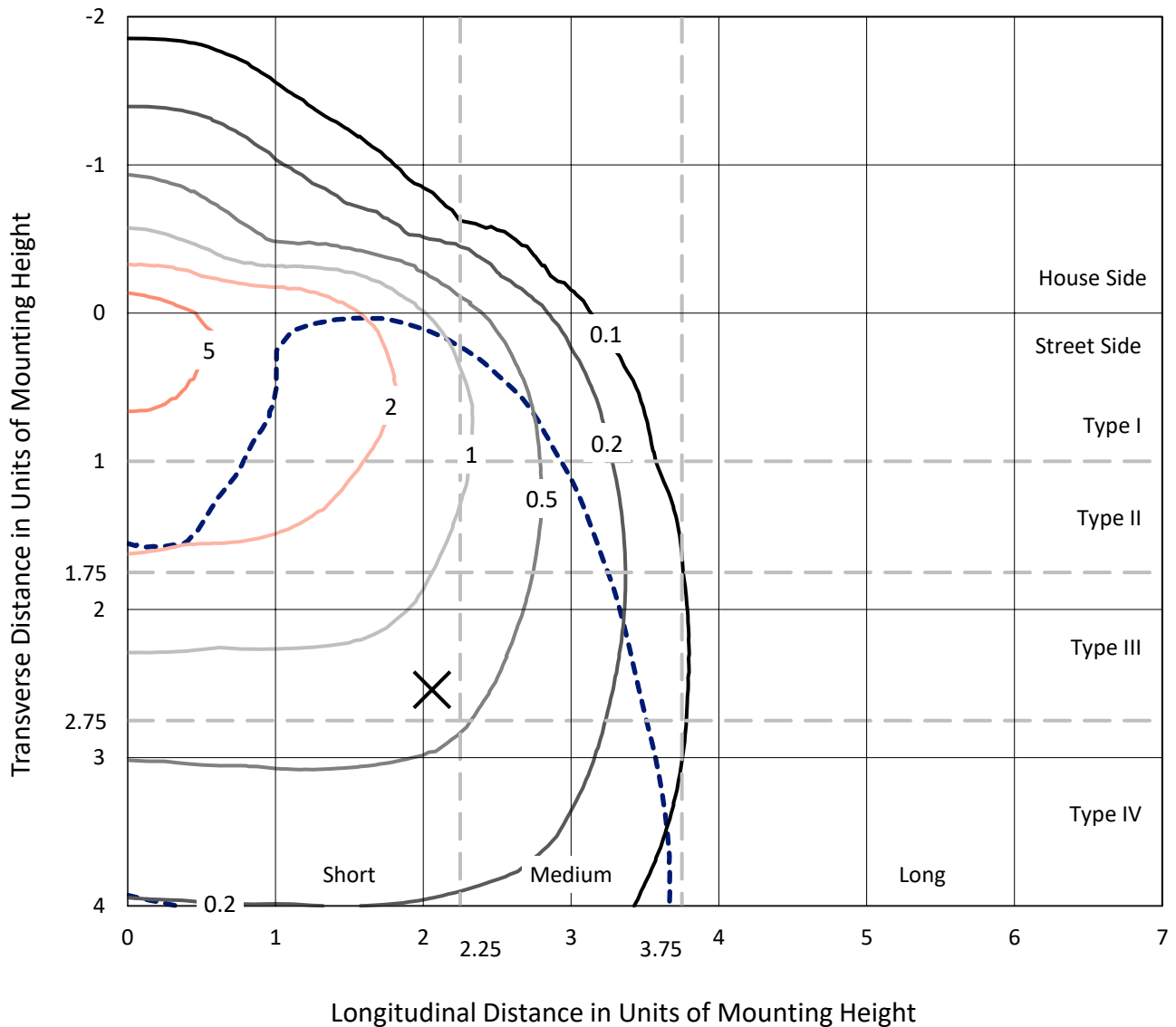
Lumens per Lamp: N/A  
Luminaire Lumens: 25306.7 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 249.7  
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: P480792  
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

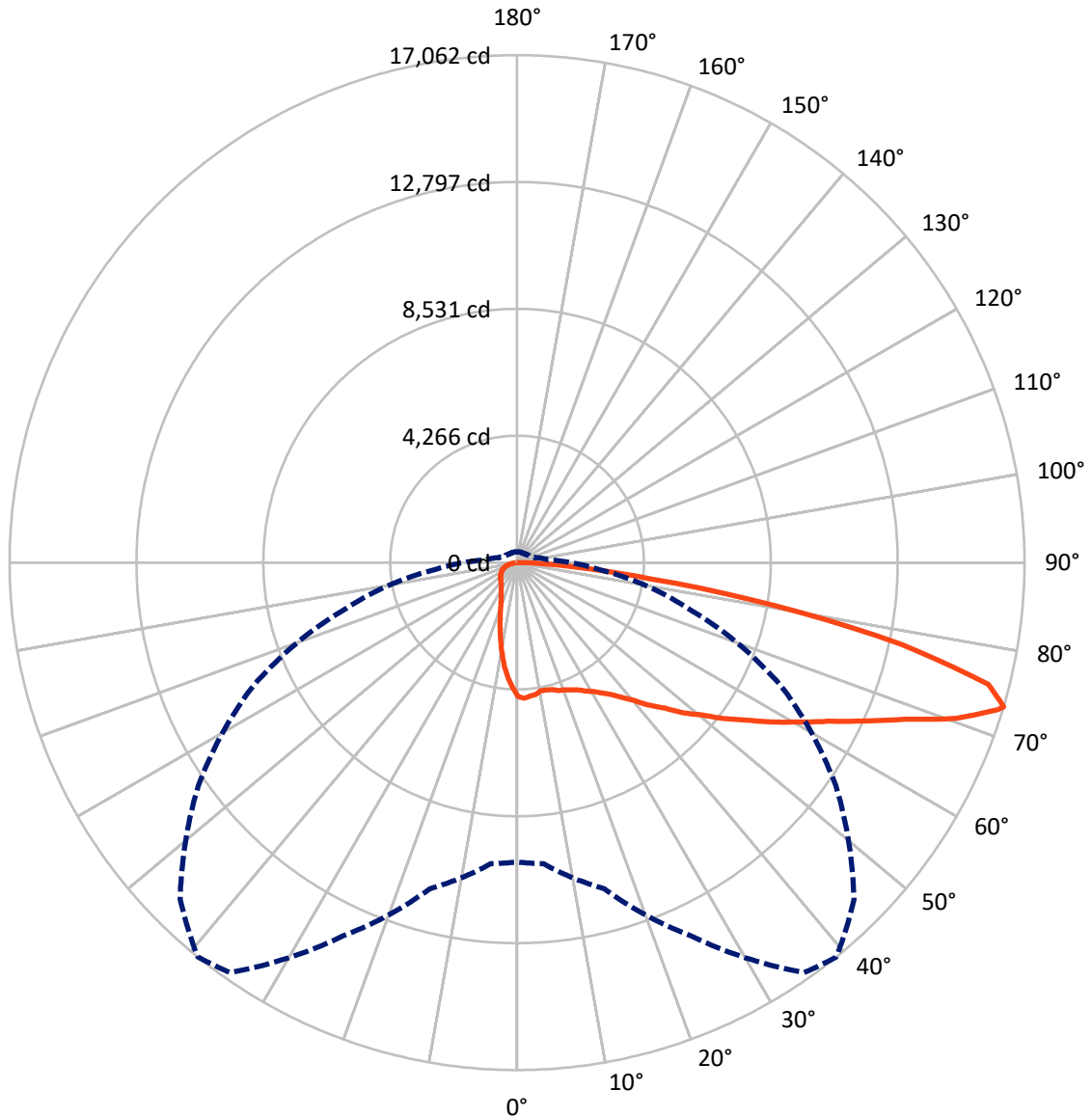
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P480792  
CATALOG NUMBER: IFLD-M-SA4D-727-U-SL4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P480792  
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SL4

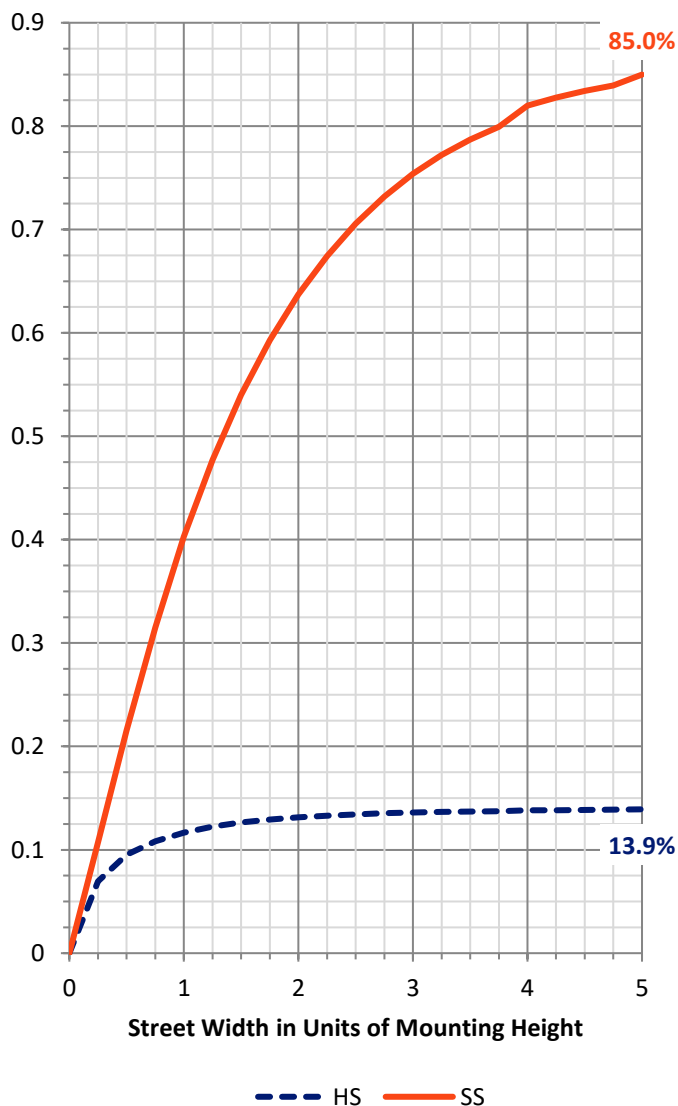
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3557.4	0.0	3557.4
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	21749.3	0.0	21749.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	25306.7	0.0	25306.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.0	1.5
10°-20°	994.1	3.9
20°-30°	1519.1	6.0
30°-40°	2214.9	8.8
40°-50°	3346.9	13.2
50°-60°	4846.5	19.2
60°-70°	6157.7	24.3
70°-80°	4991.8	19.7
80°-90°	844.6	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°	25306.7	100.0
0°-180°	25306.7	100.0

**Coefficient of Utilization**

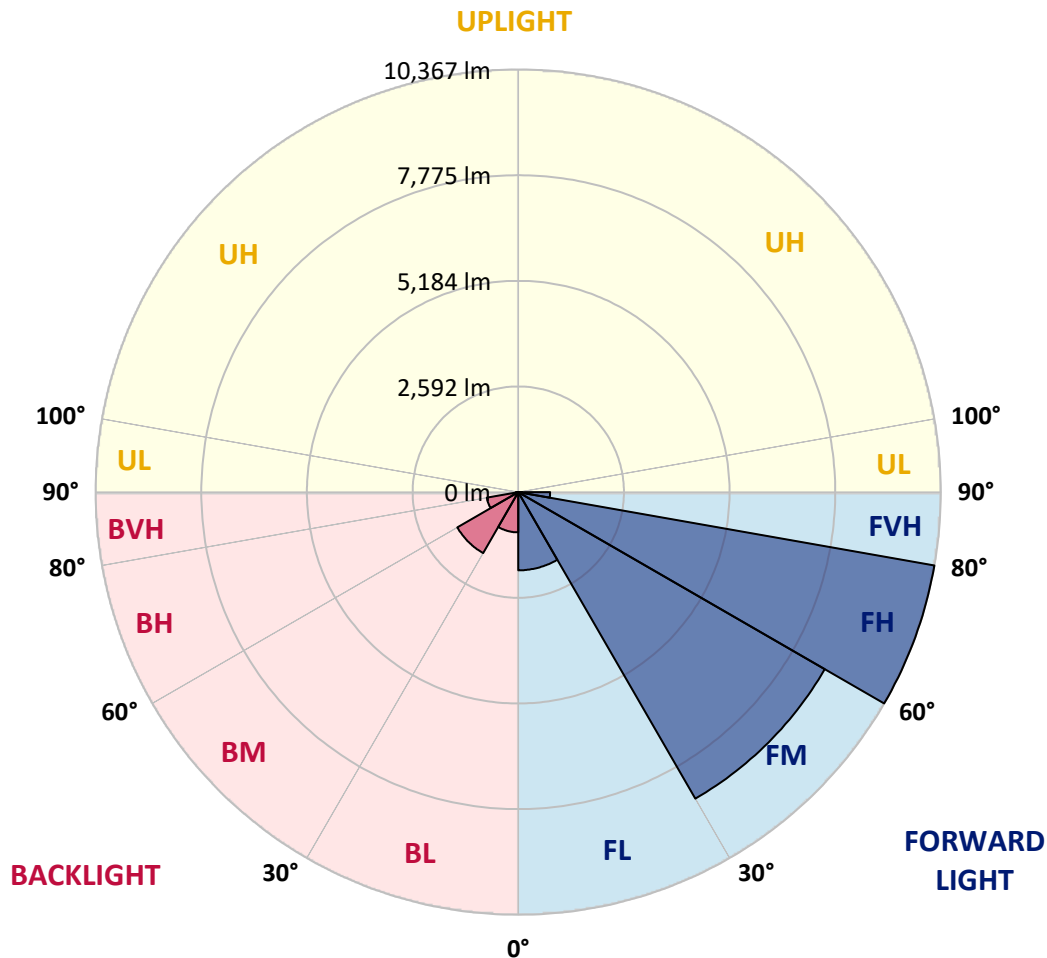


REPORT NUMBER: P480792  
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1917.7	7.6			
FM (30°-60°)	8681.8	34.3			
FH (60°-80°)	10367.1	41.0			G4/12000
FVH (80°-90°)	782.6	3.1			G5
BL (0°-30°)	986.5	3.9	B2/1000		
BM (30°-60°)	1726.5	6.8	B2/2500		
BH (60°-80°)	782.4	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





REPORT NUMBER: P480792

CATALOG NUMBER: IFLD-M-SA4D-727-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7
2.5°	4612.3	4564.2	4572.7	4555.7	4572.7	4567.0	4558.5	4516.1	4558.5	4516.1	4504.7
5°	4550.0	4550.0	4578.4	4535.9	4541.6	4513.2	4541.6	4510.4	4482.1	4411.3	4391.5
7.5°	4530.2	4527.4	4530.2	4470.8	4499.1	4482.1	4453.8	4419.8	4363.2	4317.9	4252.8
10°	4394.3	4422.6	4391.5	4408.5	4431.1	4380.2	4377.3	4368.8	4343.4	4283.9	4244.3
12.5°	4320.7	4368.8	4385.8	4371.7	4391.5	4397.2	4380.2	4368.8	4337.7	4298.1	4184.8
15°	4351.9	4295.2	4343.4	4436.8	4417.0	4431.1	4434.0	4422.6	4408.5	4334.9	4261.2
17.5°	4360.3	4326.4	4428.3	4448.1	4473.6	4524.6	4490.6	4487.8	4434.0	4383.0	4275.4
20°	4380.2	4366.0	4448.1	4552.9	4555.7	4564.2	4581.2	4538.7	4510.4	4422.6	4258.4
22.5°	4453.8	4501.9	4578.4	4623.7	4649.1	4654.8	4654.8	4569.9	4538.7	4467.9	4337.7
25°	4674.6	4623.7	4731.3	4785.1	4748.2	4739.8	4719.9	4643.5	4609.5	4547.2	4374.5
27.5°	4836.0	4833.2	4895.5	4969.1	4870.0	4889.8	4819.0	4796.4	4719.9	4686.0	4439.6
30°	5056.9	5119.2	5116.3	5139.0	5008.7	5031.4	4940.8	4898.3	4855.8	4875.7	4632.2
32.5°	5340.0	5317.4	5354.2	5337.2	5206.9	5226.8	5119.2	5054.0	5068.2	5127.7	4895.5
35°	5521.2	5498.6	5512.7	5512.7	5473.1	5450.4	5405.1	5320.2	5388.1	5498.6	5189.9
37.5°	5716.6	5744.9	5827.0	5810.0	5759.1	5759.1	5753.4	5693.9	5781.7	6053.5	5660.0
40°	5889.3	5965.7	6016.7	6050.7	6110.1	6110.1	6158.3	6124.3	6282.9	6718.9	6234.7
42.5°	6070.5	6073.3	6350.8	6376.3	6509.4	6566.0	6602.8	6631.1	6928.4	7415.4	6849.1
45°	6302.7	6316.8	6560.3	6755.7	6962.4	6982.2	7121.0	7214.4	7579.6	8177.1	7517.3
47.5°	6608.5	6591.5	6852.0	7163.4	7421.1	7557.0	7724.0	7826.0	8276.2	9003.8	8247.8
50°	7010.5	6959.6	7109.6	7599.5	7902.4	8052.5	8349.8	8519.7	9046.3	9793.8	8749.0
52.5°	7500.4	7415.4	7534.3	8069.5	8409.2	8712.2	8995.3	9185.0	9734.3	10405.4	9119.9
55°	8018.5	7843.0	7876.9	8567.8	9057.6	9343.6	9731.5	9929.7	10490.3	10954.7	9490.8
57.5°	8531.0	8420.6	8352.6	9046.3	9830.6	10105.2	10462.0	10719.7	11195.3	11441.7	9805.1
60°	8961.4	8933.0	8822.6	9788.1	10648.9	10883.9	11257.6	11416.2	11775.8	11891.9	9810.8
62.5°	9315.3	9219.0	9394.6	10385.6	11481.3	11747.5	12158.0	12172.2	12427.0	12172.2	9522.0
65°	9592.8	9598.4	9878.7	11107.6	12444.0	12837.5	13168.8	13132.0	12967.8	12005.1	8839.6
67.5°	9844.8	9952.3	10362.9	11900.3	13681.3	14052.2	14420.3	13933.3	13115.0	11223.6	7506.0
70°	10043.0	10150.5	11017.0	12865.9	15139.5	15683.1	15765.2	14250.4	12438.3	9507.8	5662.8
72.5°	10020.3	10215.7	11387.9	13636.0	16433.4	16903.4	16240.9	13358.5	10362.9	6628.3	3304.2
73°	10068.4	10164.7	11356.7	13851.2	16827.0	17062.0	16020.0	13078.2	9774.0	5945.9	2794.6
75°	9139.7	9465.3	10793.3	13500.1	16405.1	16362.6	14751.6	10898.0	6948.2	3123.0	1353.4
77.5°	6761.4	6968.1	8505.5	11101.9	13466.1	13194.3	11127.4	6965.2	3298.6	1158.0	730.5
80°	3304.2	3465.6	4507.6	6410.3	8805.6	8828.3	6905.8	3624.2	1412.9	654.1	498.3
82.5°	1650.7	1747.0	2166.0	2817.2	4332.0	4538.7	3502.4	2061.3	874.9	370.9	283.1
85°	1078.8	1146.7	1333.6	1378.9	1837.6	1939.5	1630.9	1608.2	569.1	201.0	229.3
87.5°	716.3	727.7	818.3	696.5	736.2	707.8	787.1	1013.6	167.1	84.9	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



REPORT NUMBER: P480792  
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7
2.5°	4490.6	4451.0	4408.5	4349.0	4306.5	4241.4	4182.0	4156.5	4150.8	4153.7	4125.3
5°	4374.5	4317.9	4232.9	4111.2	4040.4	3932.8	3842.2	3794.1	3743.1	3751.6	3728.9
7.5°	4213.1	4150.8	4020.6	3879.0	3703.5	3550.6	3465.6	3346.7	3278.8	3227.8	3256.1
10°	4162.1	4054.6	3859.2	3663.8	3392.0	3191.0	2995.6	2859.7	2766.3	2675.7	2715.3
12.5°	4136.7	4029.1	3757.3	3468.5	3117.4	2811.6	2536.9	2369.9	2236.8	2157.5	2188.7
15°	4114.0	3980.9	3661.0	3253.3	2859.7	2457.6	2149.0	1928.2	1800.8	1724.3	1732.8
17.5°	4145.2	3955.5	3519.4	3043.7	2576.6	2146.2	1803.6	1574.3	1444.0	1395.9	1384.6
20°	4114.0	3927.1	3380.7	2834.2	2293.4	1848.9	1520.5	1330.8	1240.2	1200.5	1192.0
22.5°	4125.3	3859.2	3236.3	2602.1	2030.1	1599.7	1330.8	1186.4	1115.6	1095.7	1101.4
25°	4179.1	3819.5	3091.9	2347.2	1769.6	1415.7	1209.0	1098.6	1047.6	1027.8	1033.5
27.5°	4218.8	3853.5	2961.6	2106.6	1548.8	1251.5	1107.1	1033.5	999.5	985.3	982.5
30°	4317.9	3873.3	2834.2	1891.4	1367.6	1143.9	1036.3	976.8	954.2	945.7	942.9
32.5°	4465.1	3910.2	2687.0	1693.2	1234.5	1042.0	979.7	928.7	923.0	914.5	917.4
35°	4705.8	4037.6	2522.8	1523.3	1107.1	974.0	920.2	886.2	886.2	886.2	894.7
37.5°	5051.2	4215.9	2375.5	1361.9	1025.0	914.5	869.2	857.9	852.2	860.7	866.4
40°	5495.7	4431.1	2256.6	1234.5	954.2	874.9	835.3	829.6	826.8	823.9	829.6
42.5°	5982.7	4705.8	2154.7	1135.4	903.2	832.4	804.1	798.5	787.1	792.8	801.3
45°	6466.9	5045.5	2064.1	1056.1	869.2	809.8	770.1	767.3	761.6	758.8	773.0
47.5°	7004.9	5379.6	2035.8	1008.0	843.8	775.8	747.5	744.7	727.7	724.8	736.2
50°	7423.9	5626.0	2066.9	985.3	806.9	750.3	730.5	716.3	702.2	688.0	688.0
52.5°	7712.7	5795.9	2089.6	968.3	787.1	716.3	690.9	685.2	671.0	656.9	651.2
55°	7973.2	5897.8	2095.2	971.2	767.3	676.7	659.7	656.9	648.4	625.7	620.1
57.5°	8061.0	5855.3	1982.0	945.7	756.0	651.2	628.6	634.2	622.9	603.1	600.3
60°	8052.5	5560.9	1724.3	911.7	730.5	622.9	594.6	611.6	611.6	588.9	586.1
62.5°	7562.7	4881.3	1410.0	846.6	702.2	594.6	563.4	588.9	597.4	583.3	580.4
65°	6546.2	3975.3	1177.9	781.5	659.7	563.4	532.3	560.6	574.8	569.1	566.3
67.5°	5416.5	3040.9	979.7	696.5	605.9	521.0	495.5	515.3	523.8	526.6	529.5
70°	3828.0	2024.4	818.3	603.1	532.3	475.7	447.4	450.2	447.4	455.9	455.9
72.5°	2081.1	1166.5	665.4	512.5	458.7	413.4	393.6	379.4	379.4	376.6	376.6
73°	1780.9	1047.6	634.2	498.3	438.9	402.1	379.4	368.1	368.1	365.2	362.4
75°	999.5	767.3	543.6	427.5	379.4	351.1	334.1	317.1	314.3	314.3	314.3
77.5°	656.9	597.4	433.2	342.6	305.8	280.3	274.6	257.7	257.7	257.7	254.8
80°	492.7	470.0	334.1	260.5	235.0	215.2	209.5	198.2	195.4	184.0	186.9
82.5°	328.4	370.9	243.5	184.0	158.6	147.2	147.2	144.4	135.9	121.7	121.7
85°	260.5	303.0	175.5	113.3	93.4	79.3	82.1	79.3	76.4	62.3	59.5
87.5°	48.1	121.7	51.0	31.1	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)