

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: P484684

Luminaire Tested: **IFLD-S-SA6A-727-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484684  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-727-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

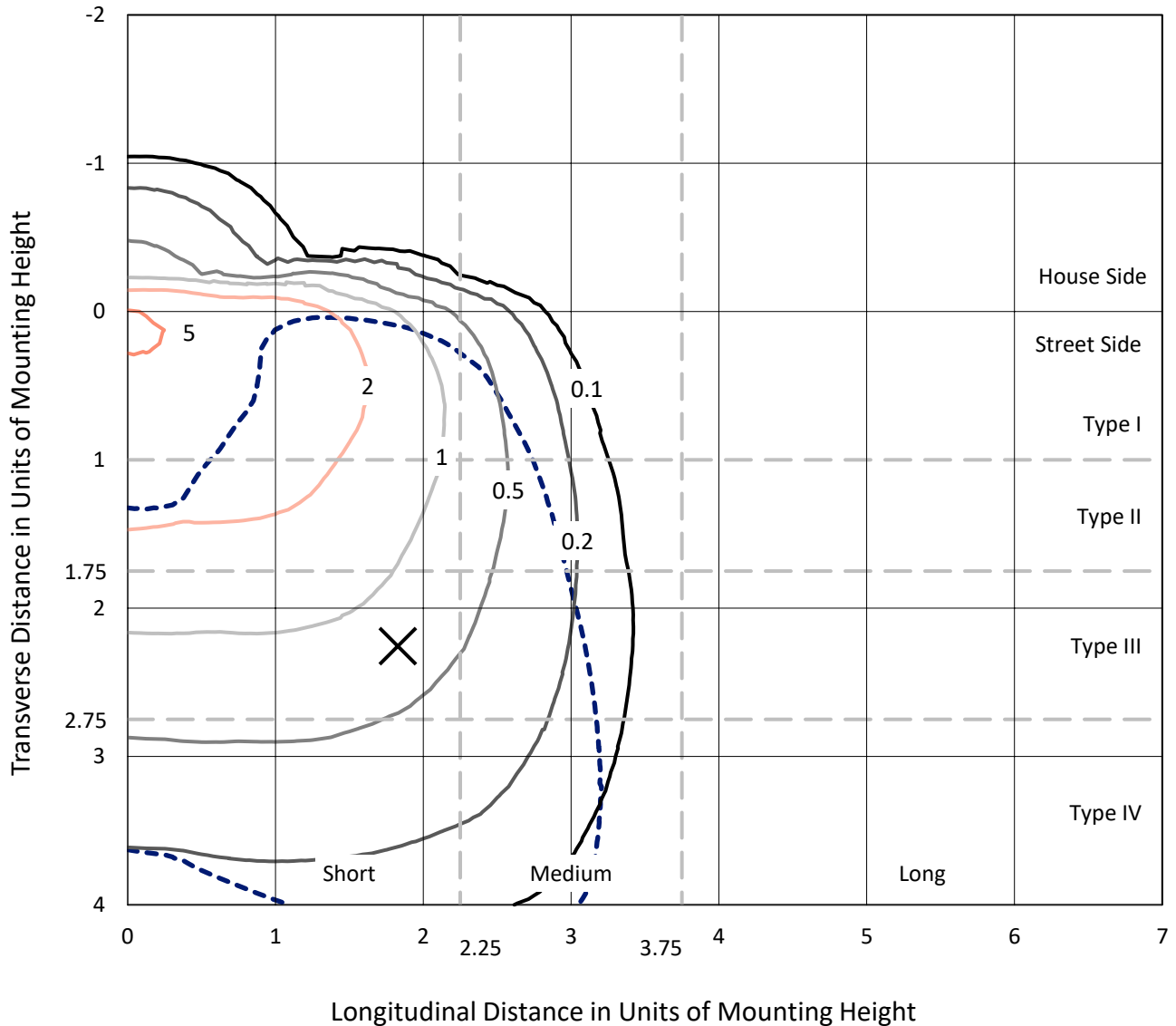
Lumens per Lamp: N/A  
Luminaire Lumens: 18646.9 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

Input Watts (W): 189.6  
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

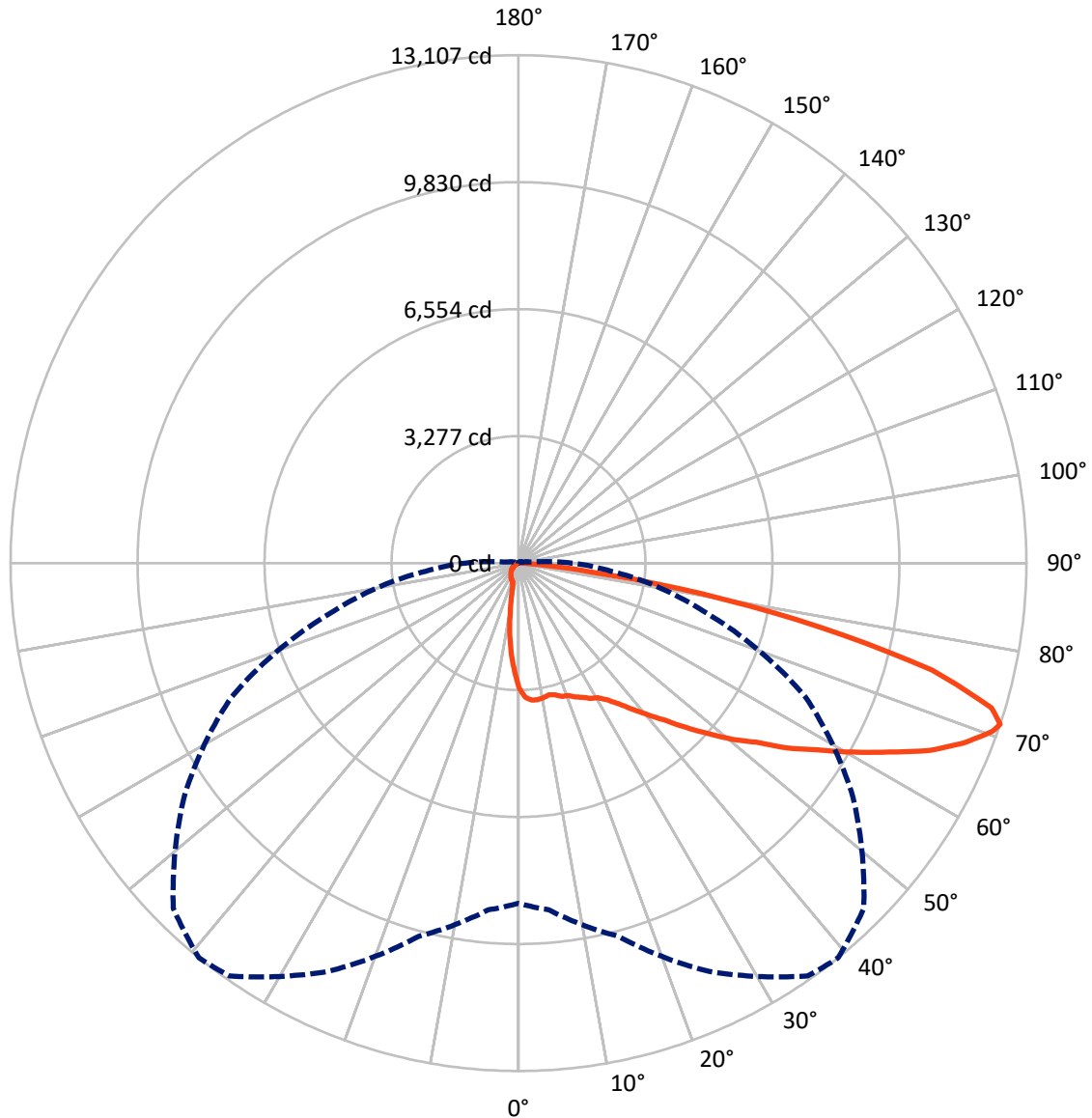
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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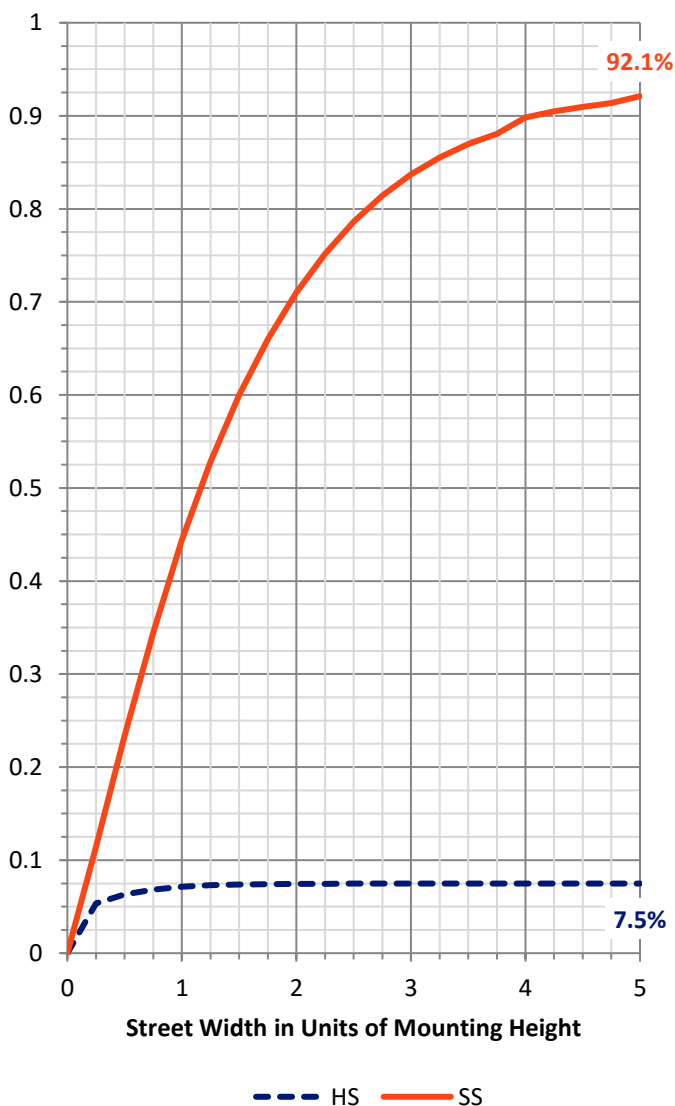
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1403.8	0.0	1403.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	17243.1	0.0	17243.1
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	18646.9	0.0	18646.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	1.5
10°-20°	667.9	3.6
20°-30°	1072.2	5.8
30°-40°	1641.3	8.8
40°-50°	2634.5	14.1
50°-60°	3869.7	20.8
60°-70°	4873.8	26.1
70°-80°	3252.6	17.4
80°-90°	363.5	1.9
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°	18646.9	100.0
0°-180°	18646.9	100.0

**Coefficient of Utilization**



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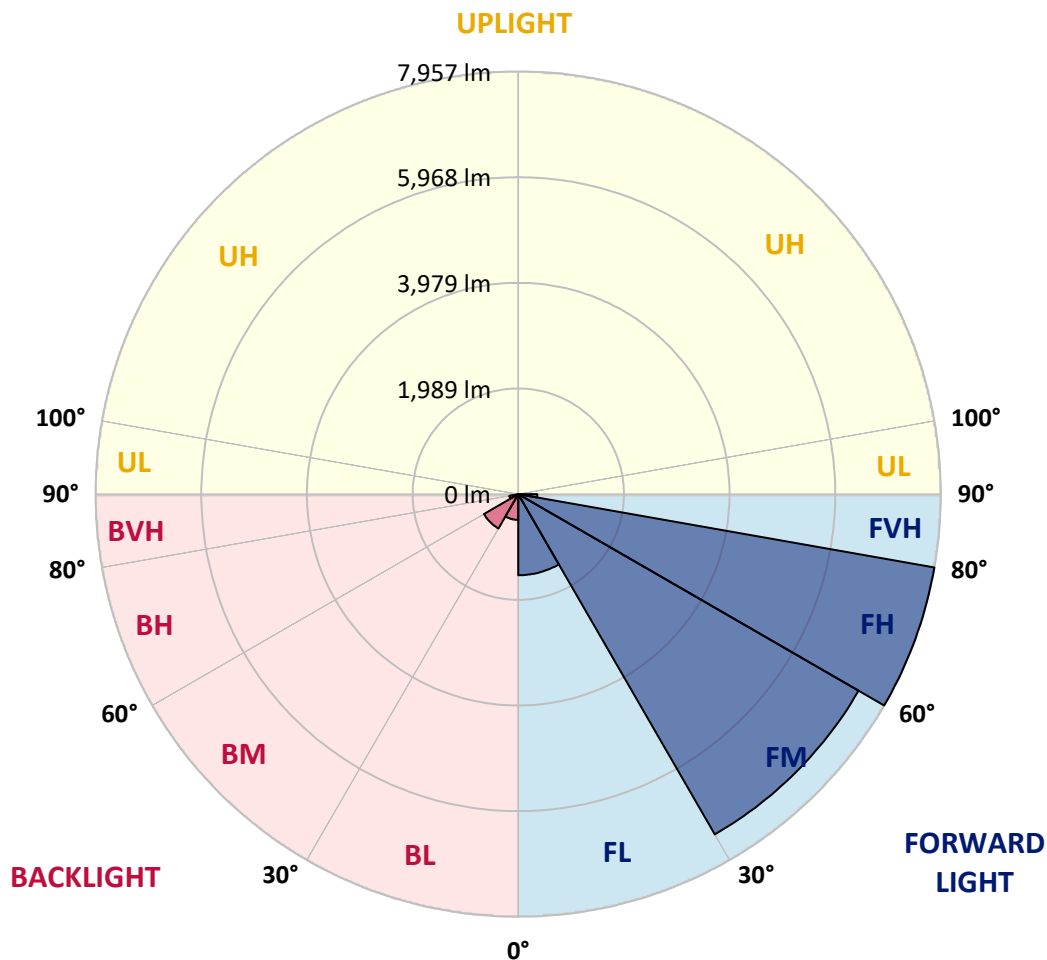
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1526.8	8.2			
FM (30°-60°)	7399.3	39.7			
FH (60°-80°)	7957.4	42.7			G4/12000
FVH (80°-90°)	359.5	1.9			G3/500
BL (0°-30°)	484.7	2.6	B1/500		
BM (30°-60°)	746.2	4.0	B1/1000		
BH (60°-80°)	169.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6
2.5°	3497.5	3531.8	3497.5	3482.9	3468.2	3470.6	3431.5	3438.8	3392.4	3331.2	3282.3
5°	3607.6	3654.1	3617.4	3600.3	3597.8	3551.3	3531.8	3485.3	3429.0	3333.7	3275.0
7.5°	3597.8	3588.0	3605.1	3590.5	3558.7	3558.7	3536.7	3470.6	3414.4	3306.8	3206.5
10°	3524.4	3553.8	3539.1	3522.0	3529.3	3531.8	3490.2	3443.7	3426.6	3319.0	3155.1
12.5°	3517.1	3468.2	3522.0	3524.4	3492.6	3490.2	3485.3	3473.1	3419.3	3321.4	3167.3
15°	3492.6	3473.1	3526.9	3529.3	3536.7	3529.3	3536.7	3526.9	3473.1	3416.8	3221.1
17.5°	3512.2	3490.2	3566.0	3602.7	3585.6	3619.8	3607.6	3563.6	3517.1	3451.1	3272.5
20°	3517.1	3548.9	3632.0	3646.7	3700.5	3644.3	3641.8	3595.4	3566.0	3495.1	3304.3
22.5°	3607.6	3622.3	3725.0	3756.8	3759.2	3751.9	3690.7	3636.9	3624.7	3536.7	3311.6
25°	3744.6	3795.9	3842.4	3862.0	3869.3	3835.0	3771.5	3703.0	3673.6	3617.4	3387.5
27.5°	3986.7	3954.9	3996.5	4025.8	3942.7	3954.9	3874.2	3815.5	3773.9	3725.0	3475.5
30°	4201.9	4172.6	4175.0	4170.1	4099.2	4033.2	4011.1	3908.4	3857.1	3876.6	3612.5
32.5°	4395.1	4331.6	4385.4	4360.9	4228.8	4209.3	4192.1	4062.5	4072.3	4162.8	3817.9
35°	4573.7	4551.7	4595.7	4551.7	4463.6	4458.7	4441.6	4329.1	4382.9	4512.5	4170.1
37.5°	4737.6	4744.9	4798.7	4776.7	4784.0	4788.9	4779.1	4659.3	4813.4	5104.4	4581.0
40°	4889.2	4879.4	5011.5	5080.0	5094.6	5148.5	5148.5	5119.1	5356.4	5684.1	5150.9
42.5°	5050.6	5075.1	5246.3	5361.2	5500.7	5547.1	5610.7	5625.4	5992.3	6366.5	5733.0
45°	5314.8	5273.2	5490.9	5762.4	5884.6	6048.5	6146.4	6229.5	6672.2	7185.8	6315.1
47.5°	5649.8	5566.7	5757.5	6151.2	6435.0	6569.5	6745.6	6855.6	7288.5	7819.3	6865.4
50°	6021.6	5936.0	6029.0	6571.9	6902.1	7146.7	7371.7	7511.1	8034.5	8528.6	7266.5
52.5°	6442.3	6364.0	6378.7	7009.7	7496.4	7675.0	7970.9	8178.8	8699.8	8956.6	7408.4
55°	6889.9	6870.3	6823.8	7437.7	8017.4	8418.5	8597.1	8846.5	9382.2	9189.0	7562.5
57.5°	7339.9	7278.8	7344.8	8005.2	8853.9	9093.6	9340.6	9489.8	9761.3	9392.0	7503.8
60°	7763.0	7767.9	7860.9	8621.5	9565.6	9905.6	10128.1	10037.7	10150.2	9480.0	7369.3
62.5°	8120.1	8110.3	8345.1	9313.7	10507.3	10737.2	10903.5	10499.9	10331.2	9565.6	7134.5
65°	8440.5	8550.6	8919.9	10137.9	11392.6	11656.8	11556.5	10937.7	10507.3	9313.7	6474.1
67.5°	8682.7	8846.5	9487.3	10913.3	12204.7	12390.5	12251.1	11270.3	10299.4	8325.6	5273.2
70°	8824.5	8990.8	9893.4	11559.0	12852.8	12987.3	12659.6	11013.5	9086.2	6029.0	3289.6
71°	8780.5	8983.5	9971.6	11627.4	13006.9	13107.2	12598.4	10539.0	8171.5	5048.2	2399.4
72.5°	8381.8	8572.6	9646.3	11578.5	12821.0	12759.9	12121.5	9399.3	6432.5	3218.7	1240.0
75°	6158.6	6364.0	8279.1	10015.6	11444.0	11023.3	9810.2	6596.4	3355.7	985.7	362.0
77.5°	3067.1	3101.3	5138.7	7271.4	8394.1	7975.8	6574.4	3678.5	1254.7	291.1	181.0
80°	1413.7	1423.5	1927.3	3766.6	5075.1	4776.7	3683.4	1814.8	567.4	154.1	141.9
82.5°	963.7	978.3	1161.8	1560.4	2203.7	1858.8	1492.0	1161.8	325.3	92.9	139.4
85°	176.1	161.4	650.6	826.7	851.1	577.2	516.1	1005.2	122.3	53.8	122.3
87.5°	0.0	2.4	90.5	337.5	303.3	134.5	176.1	244.6	12.2	17.1	22.0
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°	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6	3245.6
2.5°	3240.7	3213.8	3123.3	3023.0	2932.5	2861.6	2771.1	2729.5	2663.5	2626.8	2624.4
5°	3194.2	3120.9	2964.3	2795.6	2607.2	2450.7	2277.1	2179.2	2066.7	2032.5	2025.1
7.5°	3116.0	3010.8	2780.9	2543.7	2255.0	1978.7	1765.9	1538.4	1399.0	1340.3	1318.3
10°	3067.1	2939.9	2626.8	2272.2	1868.6	1479.7	1181.3	939.2	812.0	750.9	736.2
12.5°	3067.1	2930.1	2502.1	2012.9	1477.3	1012.6	731.3	591.9	550.3	535.6	535.6
15°	3059.7	2910.5	2382.2	1746.3	1093.3	679.9	545.4	516.1	511.2	508.7	506.3
17.5°	3096.4	2876.3	2259.9	1460.2	772.9	535.6	501.4	496.5	491.6	491.6	486.7
20°	3123.3	2856.7	2113.2	1156.9	577.2	496.5	481.8	474.5	472.0	469.6	474.5
22.5°	3101.3	2827.4	1932.2	865.8	503.8	472.0	462.3	454.9	450.0	450.0	452.5
25°	3142.9	2800.5	1751.2	653.0	472.0	450.0	440.2	435.4	432.9	430.5	425.6
27.5°	3199.1	2812.7	1536.0	525.9	445.1	428.0	418.2	413.3	410.9	406.0	410.9
30°	3267.6	2810.2	1298.7	459.8	420.7	403.6	393.8	391.3	386.4	384.0	386.4
32.5°	3385.0	2873.8	1054.1	425.6	393.8	379.1	369.3	366.9	364.4	362.0	359.5
35°	3636.9	2952.1	824.2	398.7	369.3	352.2	344.9	340.0	337.5	335.1	332.6
37.5°	3947.6	3125.8	628.6	374.2	344.9	327.7	320.4	318.0	308.2	305.7	303.3
40°	4336.4	3311.6	484.3	347.3	322.8	305.7	298.4	291.1	278.8	273.9	269.0
42.5°	4820.7	3492.6	398.7	322.8	298.4	286.2	273.9	261.7	251.9	242.1	237.2
45°	5305.0	3703.0	349.8	300.8	278.8	264.1	254.4	237.2	220.1	205.4	203.0
47.5°	5708.5	3778.8	320.4	276.4	259.3	247.0	232.4	210.3	185.9	171.2	168.8
50°	6009.4	3734.8	291.1	251.9	237.2	225.0	205.4	178.5	154.1	139.4	134.5
52.5°	6068.1	3541.6	264.1	232.4	215.2	200.6	178.5	149.2	122.3	107.6	105.2
55°	6026.5	3221.1	242.1	215.2	195.7	173.7	149.2	119.8	95.4	80.7	78.3
57.5°	5940.9	2842.0	217.7	193.2	171.2	149.2	122.3	97.8	70.9	56.3	56.3
60°	5649.8	2326.0	193.2	168.8	146.7	127.2	100.3	70.9	48.9	36.7	34.2
62.5°	5243.8	1787.9	168.8	144.3	127.2	105.2	78.3	51.4	29.3	19.6	19.6
65°	4502.8	1252.3	141.9	119.8	105.2	85.6	58.7	31.8	17.1	7.3	7.3
67.5°	3421.7	775.3	117.4	100.3	90.5	68.5	41.6	19.6	7.3	2.4	0.0
70°	1964.0	403.6	92.9	80.7	70.9	51.4	29.3	9.8	4.9	0.0	0.0
71°	1372.1	298.4	83.2	70.9	63.6	46.5	24.5	7.3	2.4	0.0	0.0
72.5°	687.3	198.1	70.9	58.7	51.4	36.7	19.6	7.3	2.4	0.0	0.0
75°	244.6	127.2	48.9	39.1	36.7	26.9	12.2	4.9	2.4	0.0	0.0
77.5°	168.8	102.7	34.2	24.5	24.5	17.1	7.3	2.4	2.4	0.0	0.0
80°	154.1	56.3	22.0	14.7	12.2	9.8	4.9	2.4	0.0	0.0	0.0
82.5°	154.1	41.6	12.2	9.8	7.3	4.9	2.4	0.0	0.0	0.0	0.0
85°	107.6	22.0	7.3	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	7.3	4.9	2.4	2.4	0.0	0.0	0.0	0.0	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)