

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: P484305

Luminaire Tested: **IFLD-L-SA7B-727-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484305  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-727-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

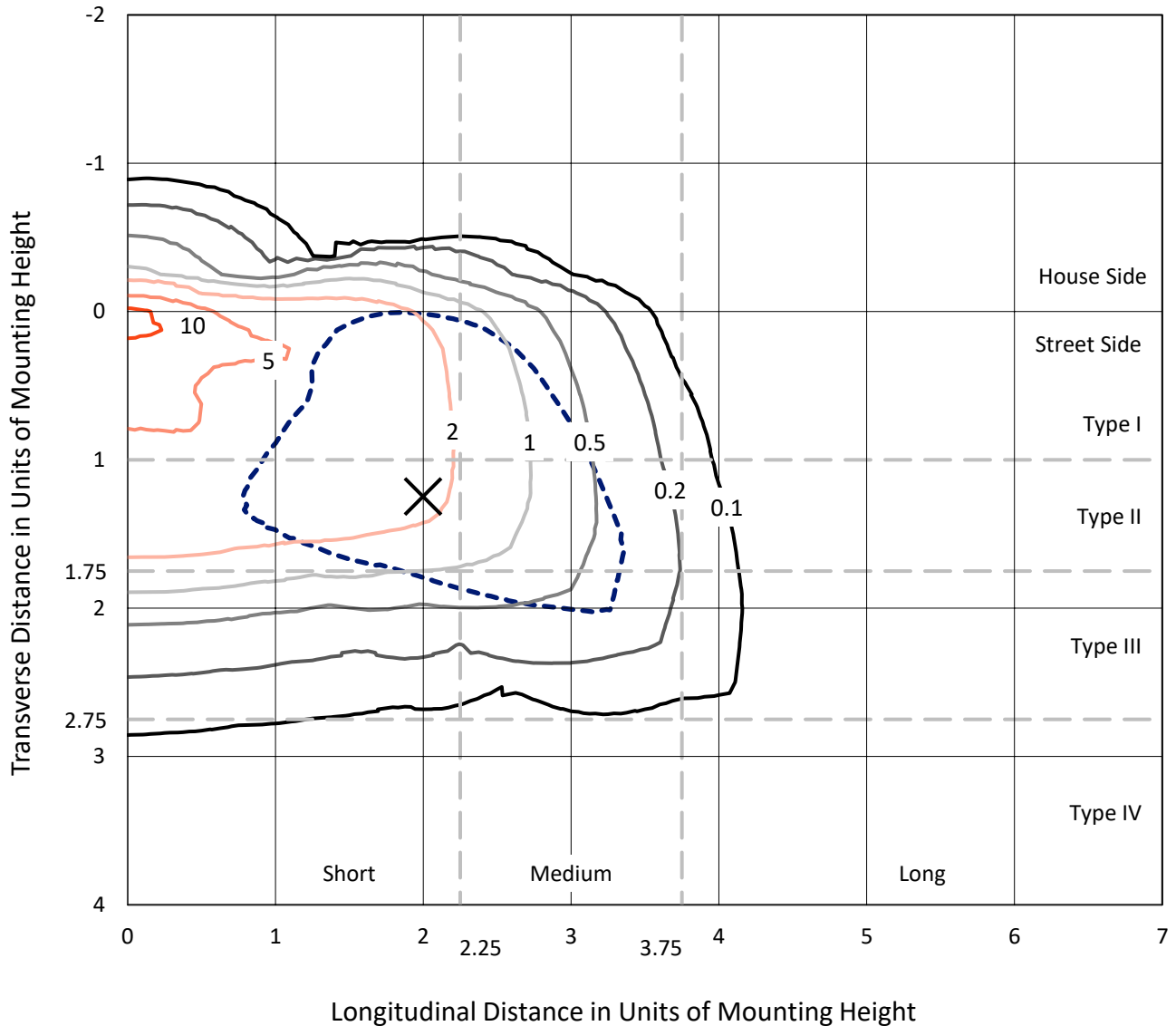
Lumens per Lamp: N/A  
Luminaire Lumens: 24906.8 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 281  
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

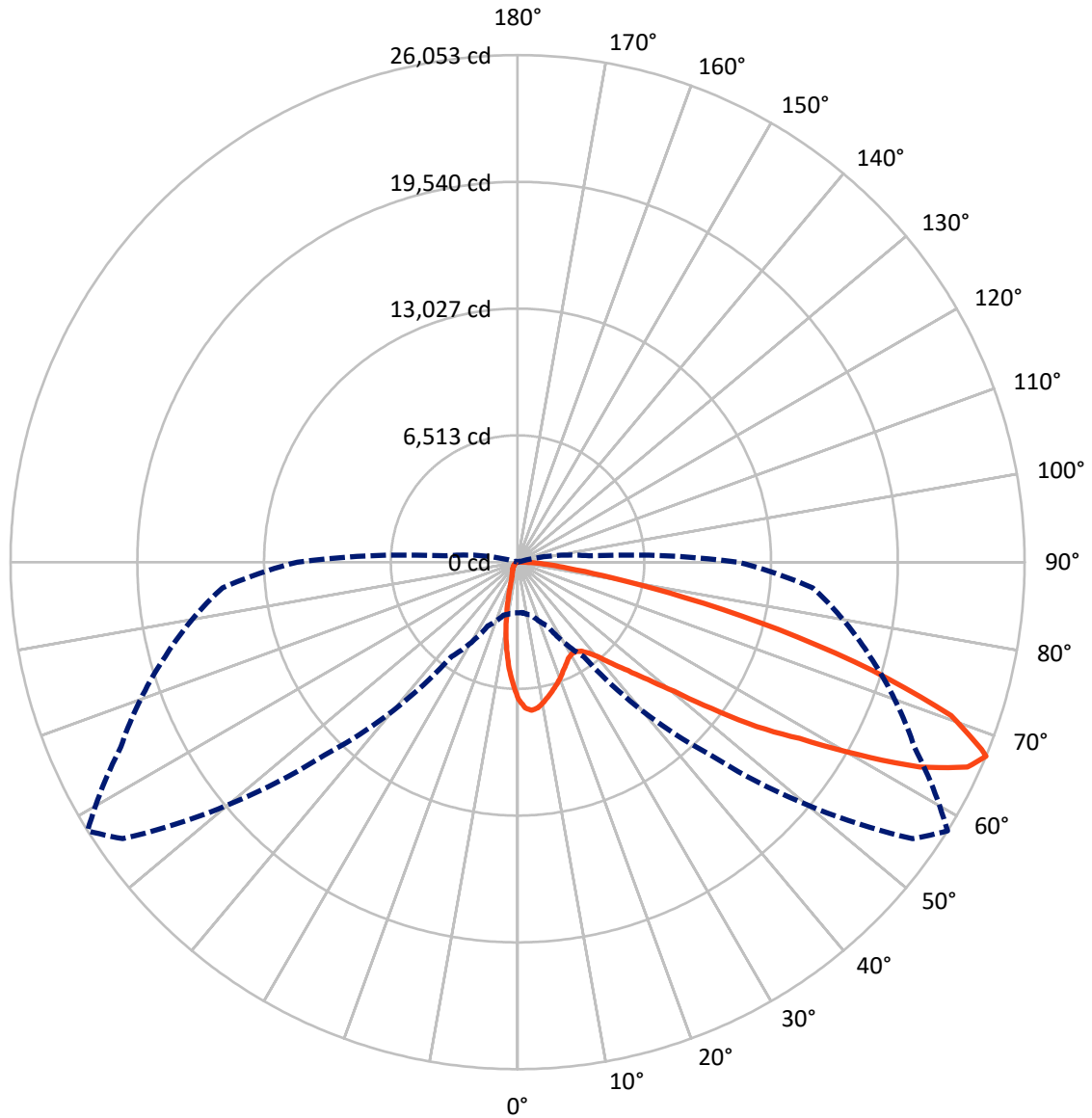
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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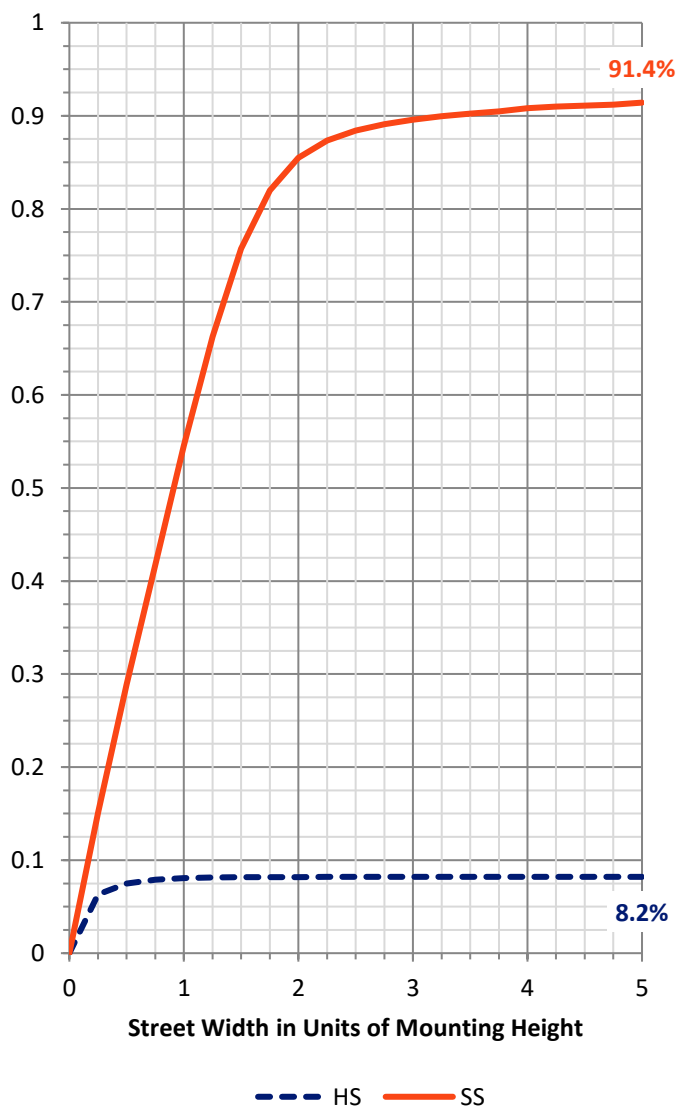
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2058.7	0.0	2058.7
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	22848.1	0.0	22848.1
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	24906.8	0.0	24906.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.9	2.2
10°-20°	1161.3	4.7
20°-30°	1540.8	6.2
30°-40°	2135.1	8.6
40°-50°	3483.9	14.0
50°-60°	6123.5	24.6
60°-70°	6782.3	27.2
70°-80°	2810.6	11.3
80°-90°	309.4	1.2
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°	24906.8	100.0
0°-180°	24906.8	100.0

**Coefficient of Utilization**



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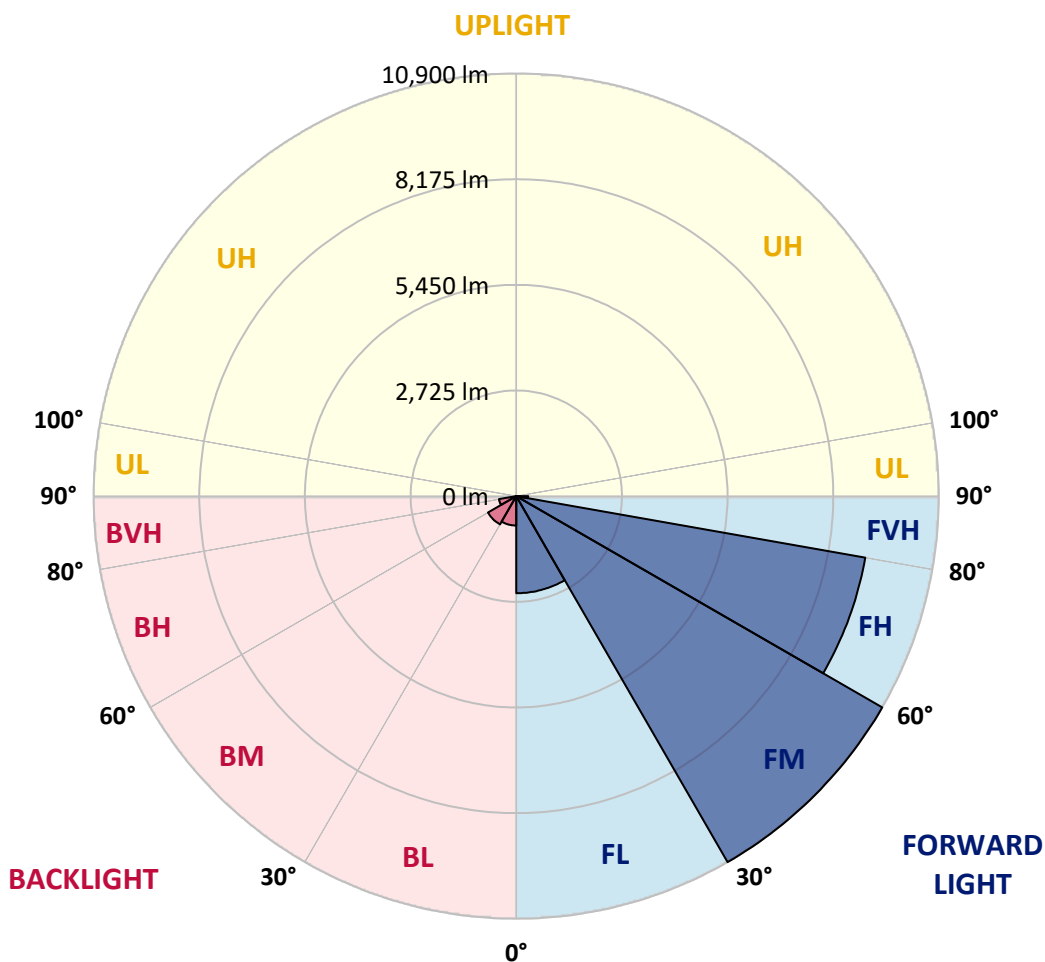
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2503.8	10.1			
FM (30°-60°)	10899.7	43.8			
FH (60°-80°)	9140.3	36.7			G4/12000
FVH (80°-90°)	304.3	1.2			G3/500
BL (0°-30°)	758.2	3.0	B2/1000		
BM (30°-60°)	842.8	3.4	B1/1000		
BH (60°-80°)	452.6	1.8	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5
2.5°	7678.1	7704.6	7727.7	7684.7	7721.1	7668.2	7532.6	7502.9	7479.7	7278.0	7162.3
5°	7674.8	7645.0	7668.2	7688.0	7638.4	7678.1	7645.0	7648.4	7559.1	7377.2	7053.1
7.5°	7162.3	7149.0	7162.3	7258.2	7367.3	7453.3	7502.9	7552.5	7492.9	7221.8	6907.7
10°	6471.2	6537.3	6573.7	6745.6	6914.3	7073.0	7228.4	7321.0	7304.5	7195.3	6748.9
12.5°	5988.4	5968.6	6100.8	6213.3	6381.9	6702.6	6973.8	7059.8	7159.0	7006.9	6540.6
15°	5542.0	5489.1	5568.4	5763.5	6051.2	6305.8	6686.1	6815.1	6940.7	6980.4	6428.2
17.5°	5115.4	5141.9	5224.6	5399.8	5671.0	6028.1	6385.2	6570.4	6871.3	6818.4	6259.5
20°	4910.4	4966.6	4996.4	5085.7	5274.2	5631.3	6163.7	6312.5	6633.2	6815.1	6094.2
22.5°	4920.3	4920.3	4850.9	4903.8	5075.8	5353.5	5862.7	6028.1	6537.3	6643.1	5945.4
25°	5026.2	4960.0	4963.3	4900.5	4973.2	5125.4	5591.6	5793.3	6342.2	6659.7	5866.0
27.5°	5105.5	5092.3	5072.4	5055.9	4963.3	4986.5	5413.0	5578.4	6266.2	6639.8	5743.7
30°	5393.2	5333.7	5313.8	5277.5	5155.1	5042.7	5270.8	5479.2	6206.6	6686.1	5674.3
32.5°	5634.6	5644.5	5661.0	5555.2	5449.4	5171.6	5310.5	5475.9	6163.7	6791.9	5743.7
35°	5938.8	5981.8	5988.4	5955.3	5842.9	5568.4	5475.9	5618.0	6236.4	6980.4	5750.3
37.5°	6401.7	6355.4	6481.1	6494.3	6415.0	6051.2	5859.4	5915.6	6451.3	7281.3	6001.6
40°	6702.6	6758.9	6993.6	7139.1	7003.5	6672.9	6415.0	6405.0	6762.2	7754.2	6312.5
42.5°	7036.6	7162.3	7420.2	7734.3	7717.8	7410.3	7149.0	7106.1	7314.4	8438.6	6805.1
45°	7492.9	7605.4	7965.8	8438.6	8696.6	8435.3	8041.8	7955.9	7985.6	9371.1	7645.0
47.5°	8250.2	8220.4	8739.6	9205.8	9629.1	9427.3	9258.7	9007.4	8984.2	10468.9	8805.7
50°	9106.6	9100.0	9562.9	10092.0	10581.4	10974.9	10693.8	10419.3	10426.0	11960.3	10171.3
52.5°	9920.0	10049.0	10548.3	11074.1	11914.0	12337.2	12608.4	12499.2	11973.5	13292.9	11632.9
55°	10349.9	10462.3	10958.3	11864.4	13190.3	14278.2	15012.3	14919.7	13904.6	14794.1	13074.6
57.5°	9943.2	10019.2	10690.5	11877.6	14083.1	16510.3	17214.6	17098.8	15901.8	15941.5	14817.2
60°	8240.2	8359.3	9357.9	10750.0	13735.9	18229.7	20246.8	20071.5	17720.5	17393.1	15938.2
62.5°	5707.3	5786.7	6606.7	8339.4	12089.2	18828.2	23110.4	23206.3	19638.4	18524.0	16272.2
65°	3696.9	3690.3	4159.8	5333.7	8567.6	17016.2	24803.4	25398.6	21490.1	18696.0	16169.7
67°	2612.3	2602.4	2823.9	3617.5	5932.2	14020.3	24773.6	26053.3	22495.3	18745.6	15220.6
67.5°	2410.6	2400.6	2612.3	3326.5	5353.5	13038.2	24403.3	25716.0	22849.2	18676.1	14804.0
70°	1871.6	1845.1	1924.5	2291.5	3118.2	8432.0	20885.0	23622.9	22115.1	16943.4	11821.4
72.5°	1352.4	1382.2	1507.8	1881.5	2446.9	4536.8	15918.4	19102.7	18471.1	12770.4	7512.8
75°	942.4	968.9	1170.6	1534.3	2245.2	2751.2	10763.2	13855.0	12866.3	7049.8	3200.9
77.5°	492.7	525.8	747.3	1226.8	2040.2	2129.5	6431.5	8785.8	6818.4	2509.8	882.9
80°	228.2	244.7	373.7	869.7	1706.2	1871.6	3749.8	4887.3	2728.0	562.1	304.2
82.5°	99.2	109.1	171.9	499.3	1210.2	1636.8	2321.3	2562.7	988.7	181.9	188.5
85°	19.8	23.1	66.1	264.5	585.3	992.0	1630.2	1521.1	496.0	89.3	148.8
87.5°	0.0	0.0	16.5	76.1	158.7	294.3	691.1	691.1	152.1	46.3	56.2
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°	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5	7056.5
2.5°	7059.8	6940.7	6679.5	6438.1	6266.2	6071.1	5813.1	5697.4	5654.4	5594.9	5505.6
5°	6874.6	6729.1	6282.7	5833.0	5340.3	4966.6	4569.8	4338.4	4163.1	4054.0	4017.6
7.5°	6613.4	6315.8	5713.9	4993.1	4354.9	3799.4	3197.6	2790.8	2529.6	2423.8	2324.6
10°	6405.0	6018.2	5102.2	4206.1	3356.3	2542.8	1865.0	1507.8	1236.7	1134.2	1121.0
12.5°	6133.9	5671.0	4530.2	3402.6	2334.5	1514.5	1031.7	896.1	820.1	806.8	796.9
15°	5909.0	5356.8	3987.9	2635.4	1511.2	945.7	803.5	770.5	750.6	744.0	747.3
17.5°	5756.9	5019.5	3432.3	1917.9	995.3	773.8	740.7	720.9	710.9	707.6	697.7
20°	5456.0	4735.2	2883.4	1342.5	777.1	714.2	687.8	671.3	661.3	658.0	654.7
22.5°	5284.1	4374.7	2334.5	935.8	691.1	648.1	628.3	615.0	598.5	588.6	585.3
25°	5112.1	4110.2	1845.1	727.5	628.3	598.5	568.7	552.2	525.8	512.5	509.2
27.5°	4910.4	3849.0	1421.9	631.6	565.4	535.7	505.9	479.5	446.4	433.2	426.6
30°	4794.7	3594.4	1071.4	565.4	519.1	479.5	443.1	410.0	373.7	350.5	343.9
32.5°	4735.2	3362.9	803.5	515.8	469.5	426.6	380.3	340.6	307.5	287.7	284.4
35°	4662.4	3138.0	631.6	469.5	423.3	377.0	330.7	291.0	257.9	241.4	234.8
37.5°	4738.5	3005.8	525.8	433.2	386.9	334.0	284.4	244.7	218.2	201.7	198.4
40°	4946.8	2896.7	456.3	400.1	350.5	294.3	248.0	208.3	185.2	171.9	165.3
42.5°	5267.5	2896.7	413.3	367.0	317.4	257.9	211.6	181.9	158.7	145.5	142.2
45°	5849.5	2985.9	377.0	334.0	277.8	221.5	181.9	152.1	129.0	115.7	112.4
47.5°	6666.3	3190.9	347.2	304.2	248.0	195.1	158.7	129.0	105.8	92.6	89.3
50°	7764.1	3657.2	317.4	267.8	221.5	168.6	132.3	102.5	82.7	69.4	66.1
52.5°	9133.0	4318.5	287.7	248.0	188.5	142.2	105.8	82.7	62.8	52.9	49.6
55°	10581.4	5128.7	251.3	221.5	162.0	119.0	86.0	62.8	46.3	39.7	36.4
57.5°	12039.6	5753.6	221.5	191.8	132.3	95.9	69.4	49.6	33.1	26.5	23.1
60°	12813.4	5813.1	191.8	158.7	105.8	76.1	52.9	36.4	23.1	16.5	13.2
62.5°	12932.4	5284.1	165.3	129.0	86.0	59.5	36.4	26.5	13.2	6.6	6.6
65°	12320.7	4404.5	142.2	102.5	66.1	43.0	26.5	16.5	6.6	3.3	0.0
67°	11328.7	3690.3	122.3	86.0	52.9	33.1	19.8	9.9	3.3	0.0	0.0
67.5°	10945.1	3491.9	115.7	79.4	49.6	29.8	16.5	9.9	3.3	0.0	0.0
70°	8494.9	2493.2	86.0	56.2	36.4	23.1	13.2	6.6	0.0	0.0	0.0
72.5°	5204.7	1458.2	66.1	39.7	26.5	16.5	9.9	3.3	0.0	0.0	0.0
75°	2182.4	502.6	56.2	29.8	19.8	9.9	6.6	3.3	0.0	0.0	0.0
77.5°	568.7	188.5	39.7	19.8	13.2	9.9	6.6	3.3	0.0	0.0	0.0
80°	231.5	86.0	26.5	13.2	13.2	9.9	6.6	3.3	0.0	0.0	0.0
82.5°	152.1	39.7	16.5	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
85°	115.7	23.1	9.9	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	49.6	13.2	9.9	6.6	6.6	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)