

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: P484333

Luminaire Tested: **IFLD-S-SA6A-730-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484333  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-730-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

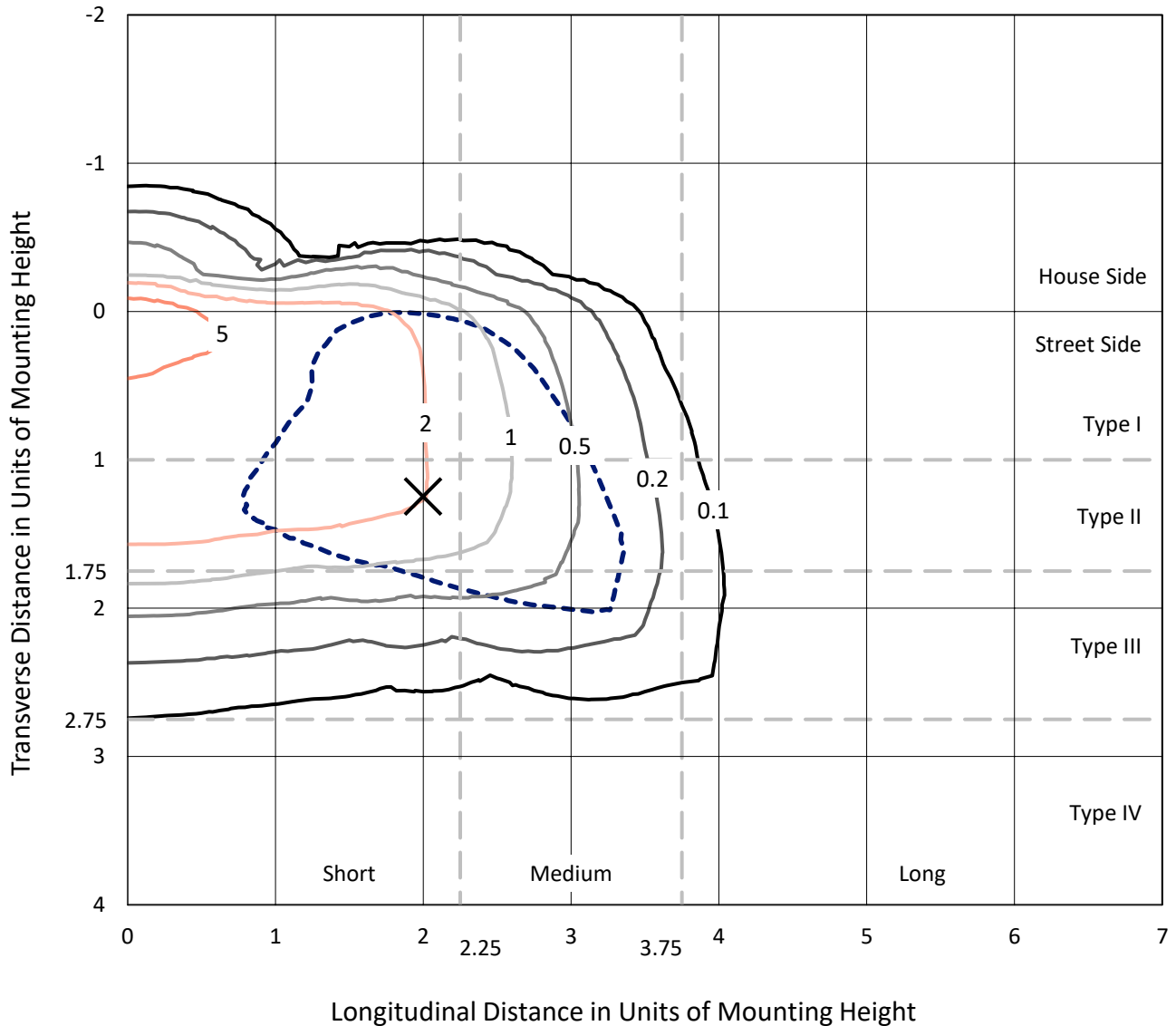
Lumens per Lamp: N/A  
Luminaire Lumens: 20553.7 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

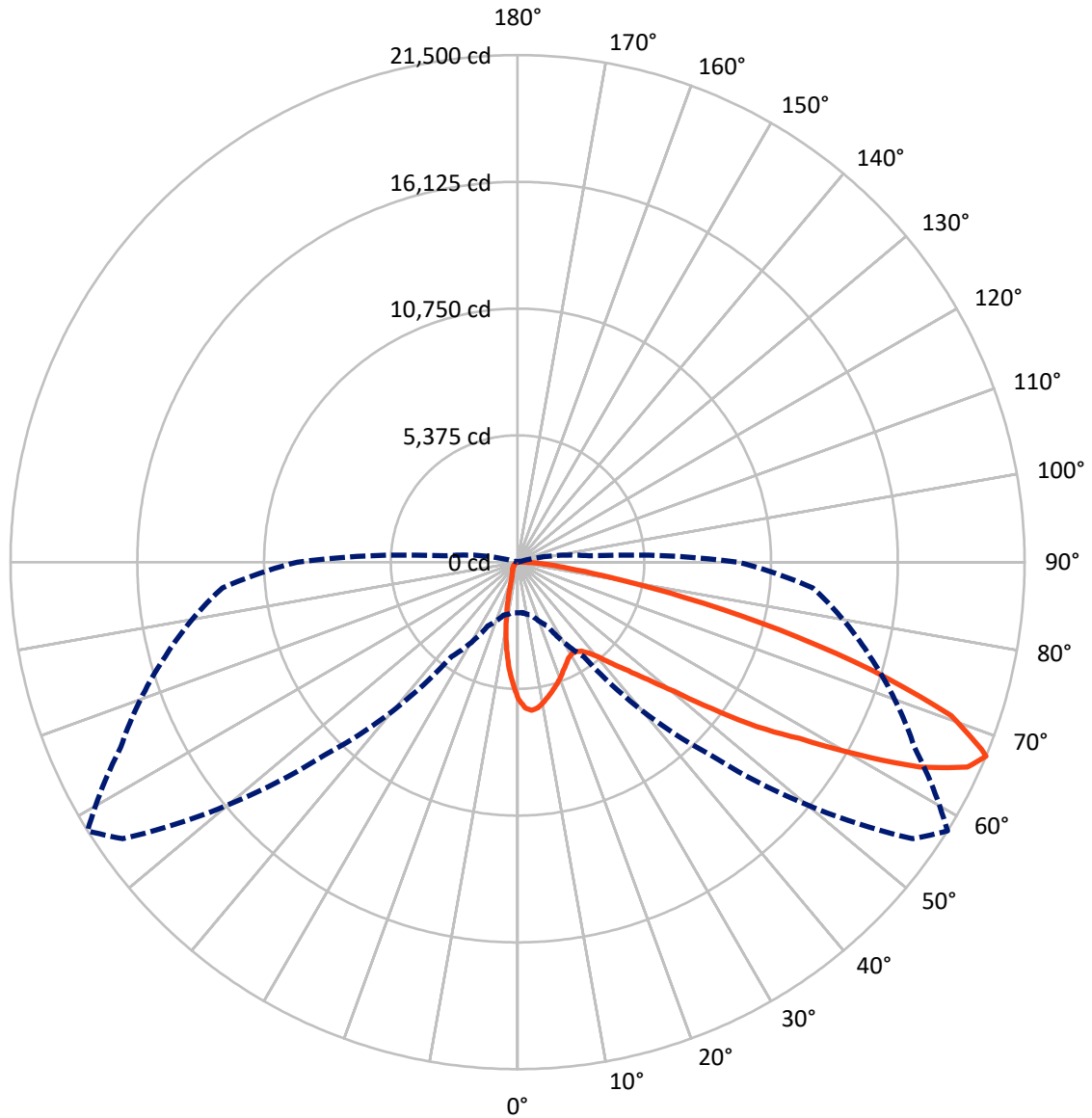
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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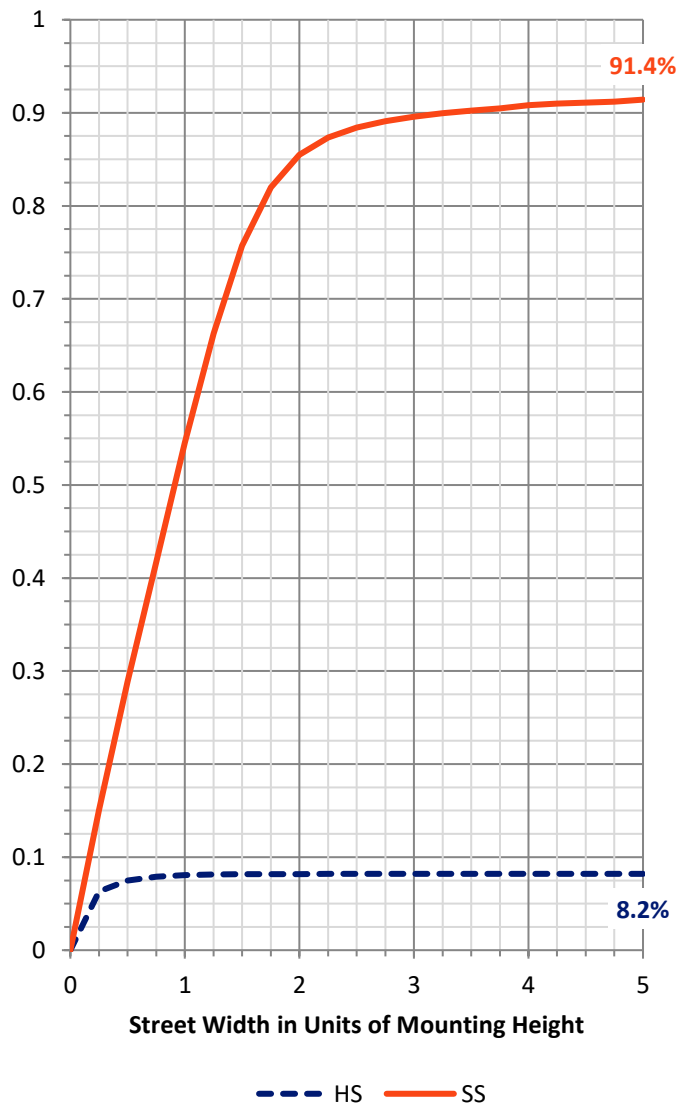
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1698.9	0.0	1698.9
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	18854.8	0.0	18854.8
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	20553.7	0.0	20553.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.0	2.2
10°-20°	958.4	4.7
20°-30°	1271.5	6.2
30°-40°	1761.9	8.6
40°-50°	2875.0	14.0
50°-60°	5053.3	24.6
60°-70°	5596.9	27.2
70°-80°	2319.4	11.3
80°-90°	255.3	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°	20553.7	100.0
0°-180°	20553.7	100.0

**Coefficient of Utilization**



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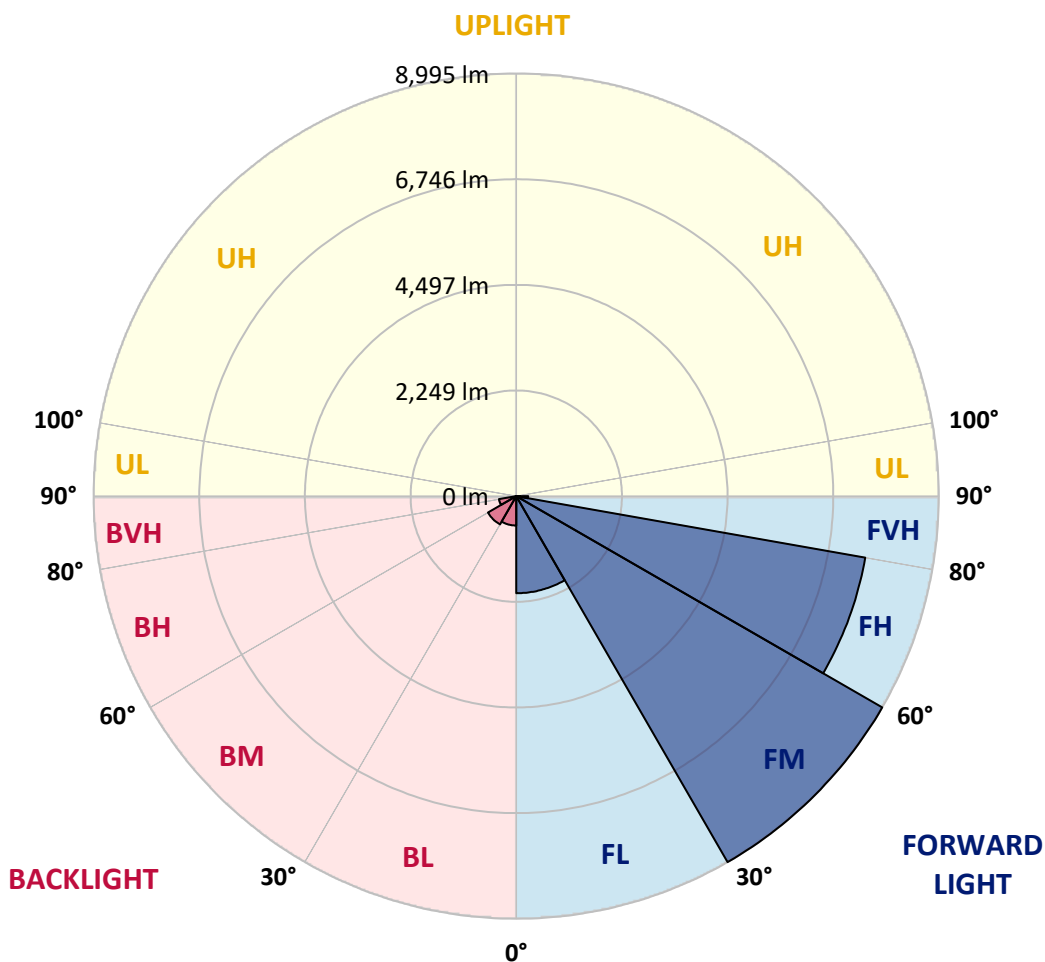
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.2	10.1			
FM (30°-60°)	8994.7	43.8			
FH (60°-80°)	7542.7	36.7			G4/12000
FVH (80°-90°)	251.1	1.2			G3/500
BL (0°-30°)	625.7	3.0	B2/1000		
BM (30°-60°)	695.5	3.4	B1/1000		
BH (60°-80°)	373.5	1.8	B1/500		G1/500
BVH (80°-90°)	4.2	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°	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1
2.5°	6336.1	6358.0	6377.1	6341.6	6371.6	6327.9	6216.1	6191.5	6172.4	6006.0	5910.5
5°	6333.4	6308.8	6327.9	6344.3	6303.4	6336.1	6308.8	6311.6	6237.9	6087.8	5820.4
7.5°	5910.5	5899.5	5910.5	5989.6	6079.6	6150.6	6191.5	6232.4	6183.3	5959.6	5700.3
10°	5340.1	5394.7	5424.7	5566.6	5705.8	5836.8	5965.0	6041.4	6027.8	5937.7	5569.4
12.5°	4941.7	4925.4	5034.5	5127.3	5266.5	5531.2	5754.9	5825.9	5907.7	5782.2	5397.4
15°	4573.4	4529.7	4595.2	4756.2	4993.6	5203.7	5517.5	5623.9	5727.6	5760.4	5304.7
17.5°	4221.4	4243.2	4311.4	4456.0	4679.8	4974.5	5269.2	5422.0	5670.3	5626.7	5165.5
20°	4052.2	4098.6	4123.1	4196.8	4352.3	4647.0	5086.4	5209.2	5473.9	5623.9	5029.1
22.5°	4060.4	4060.4	4003.1	4046.7	4188.6	4417.8	4838.1	4974.5	5394.7	5482.0	4906.3
25°	4147.7	4093.1	4095.8	4044.0	4104.0	4229.5	4614.3	4780.8	5233.7	5495.7	4840.8
27.5°	4213.2	4202.3	4185.9	4172.2	4095.8	4114.9	4466.9	4603.4	5171.0	5479.3	4739.8
30°	4450.6	4401.5	4385.1	4355.1	4254.1	4161.3	4349.6	4521.5	5121.8	5517.5	4682.5
32.5°	4649.8	4658.0	4671.6	4584.3	4497.0	4267.8	4382.4	4518.8	5086.4	5604.8	4739.8
35°	4900.8	4936.3	4941.7	4914.5	4821.7	4595.2	4518.8	4636.1	5146.4	5760.4	4745.3
37.5°	5282.8	5244.6	5348.3	5359.2	5293.8	4993.6	4835.3	4881.7	5323.8	6008.7	4952.7
40°	5531.2	5577.5	5771.3	5891.4	5779.5	5506.6	5293.8	5285.6	5580.3	6398.9	5209.2
42.5°	5806.8	5910.5	6123.3	6382.5	6368.9	6115.1	5899.5	5864.1	6036.0	6963.7	5615.7
45°	6183.3	6276.1	6573.5	6963.7	7176.6	6961.0	6636.3	6565.4	6589.9	7733.3	6308.8
47.5°	6808.2	6783.6	7212.1	7596.8	7946.1	7779.6	7640.5	7433.1	7414.0	8639.2	7266.6
50°	7515.0	7509.5	7891.5	8328.1	8732.0	9056.7	8824.7	8598.3	8603.7	9869.9	8393.6
52.5°	8186.2	8292.6	8704.7	9138.6	9831.7	10180.9	10404.7	10314.6	9880.8	10969.5	9599.7
55°	8541.0	8633.7	9043.0	9790.7	10884.9	11782.7	12388.5	12312.1	11474.4	12208.4	10789.4
57.5°	8205.3	8268.1	8822.0	9801.6	11621.7	13624.6	14205.8	14110.3	13122.5	13155.3	12227.5
60°	6800.0	6898.3	7722.3	8871.1	11335.2	15043.5	16708.1	16563.5	14623.3	14353.2	13152.5
62.5°	4709.8	4775.3	5452.0	6881.9	9976.3	15537.4	19071.2	19150.3	16206.0	15286.4	13428.1
65°	3050.7	3045.3	3432.8	4401.5	7070.2	14042.1	20468.3	20959.5	17734.1	15428.3	13343.5
67°	2155.7	2147.5	2330.3	2985.2	4895.4	11569.9	20443.7	21499.7	18563.6	15469.2	12560.4
67.5°	1989.3	1981.1	2155.7	2745.1	4417.8	10759.4	20138.1	21221.4	18855.6	15411.9	12216.6
70°	1544.5	1522.6	1588.1	1891.0	2573.2	6958.3	17234.7	19494.1	18249.8	13982.1	9755.2
72.5°	1116.1	1140.6	1244.3	1552.7	2019.3	3743.8	13136.2	15763.9	15242.7	10538.4	6199.7
75°	777.7	799.5	966.0	1266.1	1852.8	2270.3	8882.1	11433.4	10617.5	5817.7	2641.4
77.5°	406.6	433.9	616.7	1012.4	1683.6	1757.3	5307.4	7250.3	5626.7	2071.1	728.6
80°	188.3	201.9	308.3	717.7	1408.0	1544.5	3094.4	4033.1	2251.2	463.9	251.0
82.5°	81.9	90.0	141.9	412.0	998.7	1350.7	1915.6	2114.8	815.9	150.1	155.5
85°	16.4	19.1	54.6	218.3	483.0	818.6	1345.3	1255.2	409.3	73.7	122.8
87.5°	0.0	0.0	13.6	62.8	131.0	242.9	570.3	570.3	125.5	38.2	46.4
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°	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1
2.5°	5825.9	5727.6	5512.1	5312.9	5171.0	5010.0	4797.1	4701.6	4666.1	4617.0	4543.4
5°	5673.1	5553.0	5184.6	4813.5	4406.9	4098.6	3771.1	3580.1	3435.5	3345.4	3315.4
7.5°	5457.5	5211.9	4715.3	4120.4	3593.8	3135.3	2638.7	2303.1	2087.5	2000.2	1918.3
10°	5285.6	4966.3	4210.4	3471.0	2769.7	2098.4	1539.0	1244.3	1020.5	936.0	925.0
12.5°	5061.8	4679.8	3738.4	2807.9	1926.5	1249.8	851.4	739.5	676.7	665.8	657.6
15°	4876.3	4420.6	3290.9	2174.8	1247.0	780.4	663.1	635.8	619.4	614.0	616.7
17.5°	4750.7	4142.2	2832.4	1582.7	821.4	638.5	611.2	594.9	586.7	584.0	575.8
20°	4502.4	3907.6	2379.5	1107.9	641.3	589.4	567.6	553.9	545.7	543.0	540.3
22.5°	4360.5	3610.1	1926.5	772.2	570.3	534.8	518.5	507.5	493.9	485.7	483.0
25°	4218.6	3391.8	1522.6	600.3	518.5	493.9	469.3	455.7	433.9	423.0	420.2
27.5°	4052.2	3176.3	1173.4	521.2	466.6	442.1	417.5	395.7	368.4	357.5	352.0
30°	3956.7	2966.1	884.1	466.6	428.4	395.7	365.7	338.4	308.3	289.2	283.8
32.5°	3907.6	2775.1	663.1	425.7	387.5	352.0	313.8	281.1	253.8	237.4	234.7
35°	3847.5	2589.6	521.2	387.5	349.3	311.1	272.9	240.1	212.8	199.2	193.7
37.5°	3910.3	2480.4	433.9	357.5	319.3	275.6	234.7	201.9	180.1	166.5	163.7
40°	4082.2	2390.4	376.6	330.2	289.2	242.9	204.7	171.9	152.8	141.9	136.4
42.5°	4346.9	2390.4	341.1	302.9	262.0	212.8	174.6	150.1	131.0	120.1	117.3
45°	4827.1	2464.1	311.1	275.6	229.2	182.8	150.1	125.5	106.4	95.5	92.8
47.5°	5501.1	2633.2	286.5	251.0	204.7	161.0	131.0	106.4	87.3	76.4	73.7
50°	6407.1	3018.0	262.0	221.0	182.8	139.2	109.1	84.6	68.2	57.3	54.6
52.5°	7536.8	3563.7	237.4	204.7	155.5	117.3	87.3	68.2	51.8	43.7	40.9
55°	8732.0	4232.3	207.4	182.8	133.7	98.2	70.9	51.8	38.2	32.7	30.0
57.5°	9935.3	4748.0	182.8	158.3	109.1	79.1	57.3	40.9	27.3	21.8	19.1
60°	10573.9	4797.1	158.3	131.0	87.3	62.8	43.7	30.0	19.1	13.6	10.9
62.5°	10672.1	4360.5	136.4	106.4	70.9	49.1	30.0	21.8	10.9	5.5	5.5
65°	10167.3	3634.7	117.3	84.6	54.6	35.5	21.8	13.6	5.5	2.7	0.0
67°	9348.7	3045.3	101.0	70.9	43.7	27.3	16.4	8.2	2.7	0.0	0.0
67.5°	9032.1	2881.6	95.5	65.5	40.9	24.6	13.6	8.2	2.7	0.0	0.0
70°	7010.1	2057.5	70.9	46.4	30.0	19.1	10.9	5.5	0.0	0.0	0.0
72.5°	4295.0	1203.4	54.6	32.7	21.8	13.6	8.2	2.7	0.0	0.0	0.0
75°	1801.0	414.8	46.4	24.6	16.4	8.2	5.5	2.7	0.0	0.0	0.0
77.5°	469.3	155.5	32.7	16.4	10.9	8.2	5.5	2.7	0.0	0.0	0.0
80°	191.0	70.9	21.8	10.9	10.9	8.2	5.5	2.7	0.0	0.0	0.0
82.5°	125.5	32.7	13.6	10.9	8.2	5.5	2.7	0.0	0.0	0.0	0.0
85°	95.5	19.1	8.2	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	40.9	10.9	8.2	5.5	5.5	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)