

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: P484544

Luminaire Tested: **IFLD-L-SA8B-827-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484544  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-827-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

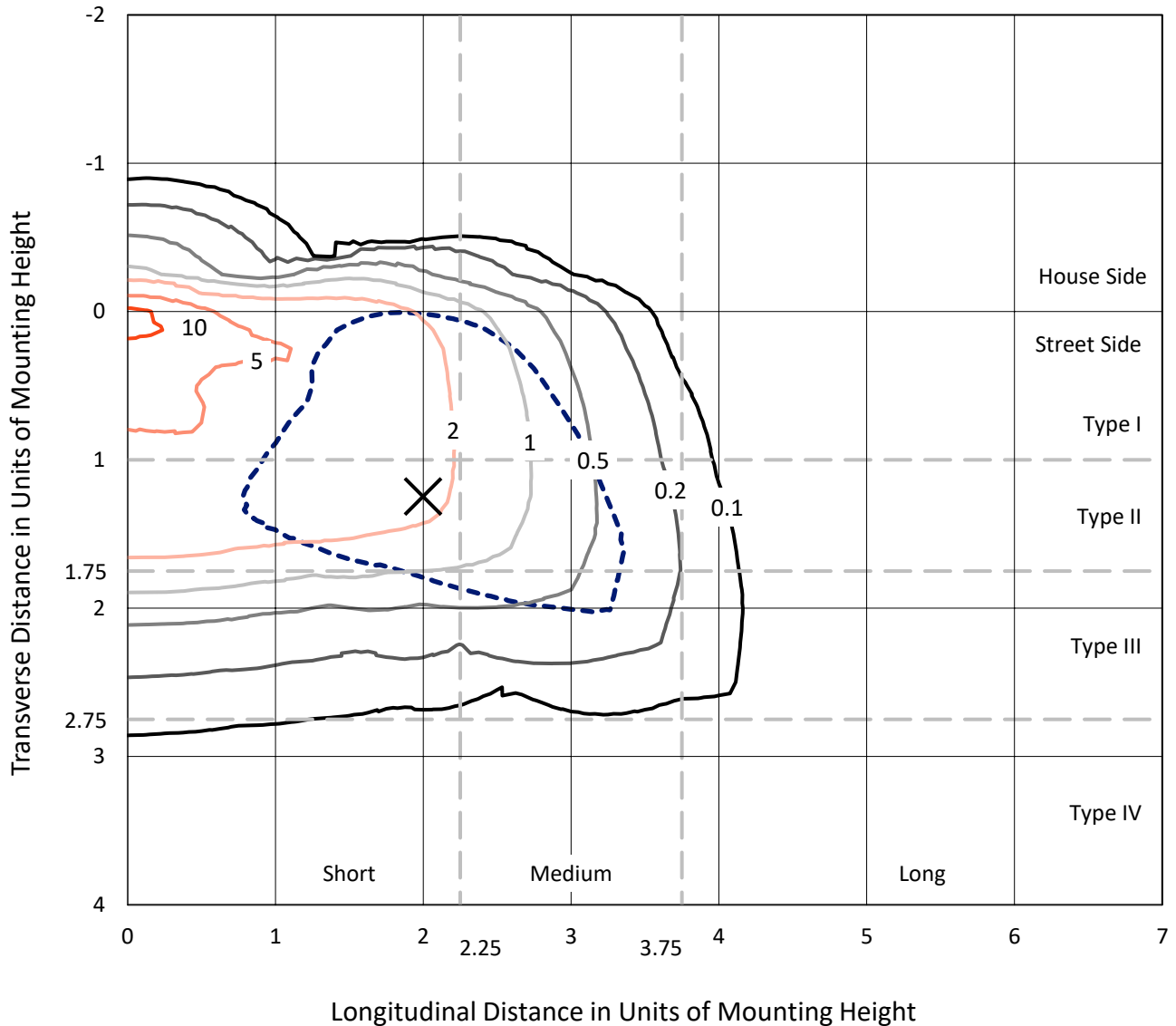
Lumens per Lamp: N/A  
Luminaire Lumens: 25019.9 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 320  
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

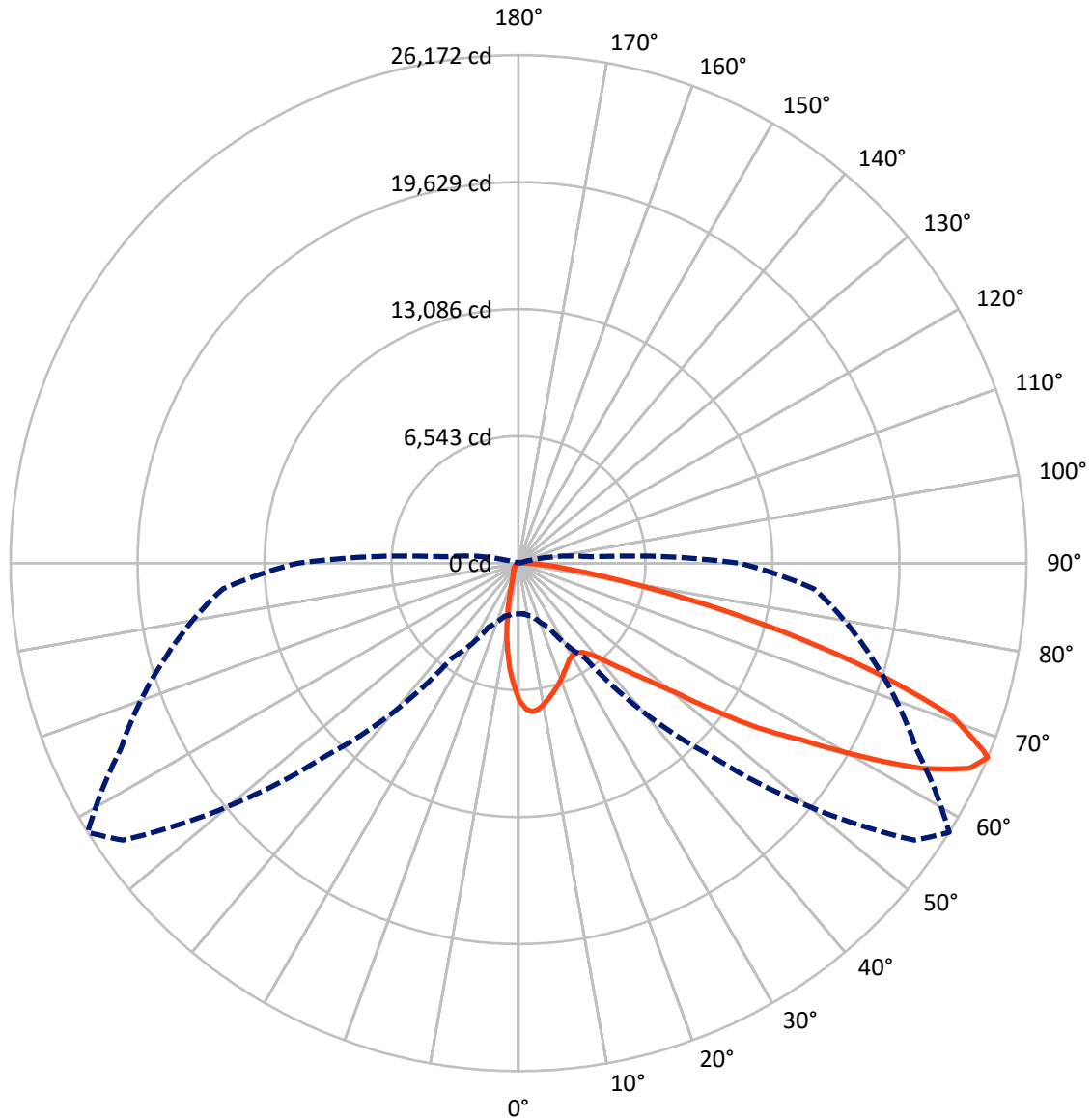
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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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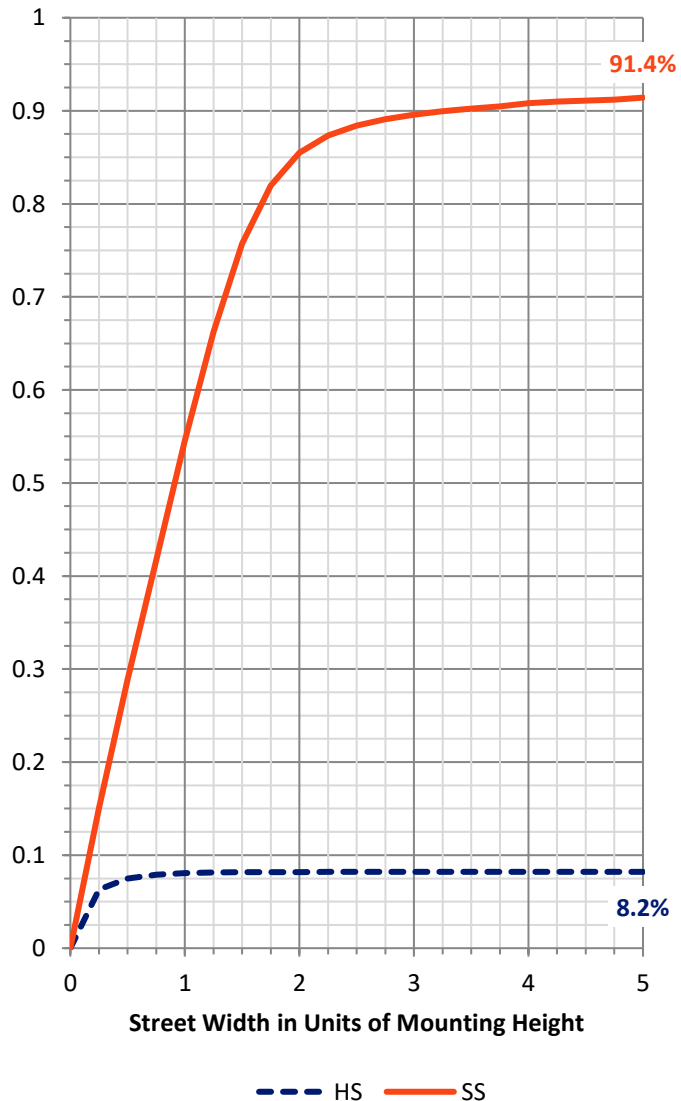
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2068.1	0.0	2068.1
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	22951.9	0.0	22951.9
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	25019.9	0.0	25019.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	562.4	2.2
10°-20°	1166.6	4.7
20°-30°	1547.8	6.2
30°-40°	2144.8	8.6
40°-50°	3499.7	14.0
50°-60°	6151.3	24.6
60°-70°	6813.1	27.2
70°-80°	2823.3	11.3
80°-90°	310.8	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°	25019.9	100.0
0°-180°	25019.9	100.0

**Coefficient of Utilization**



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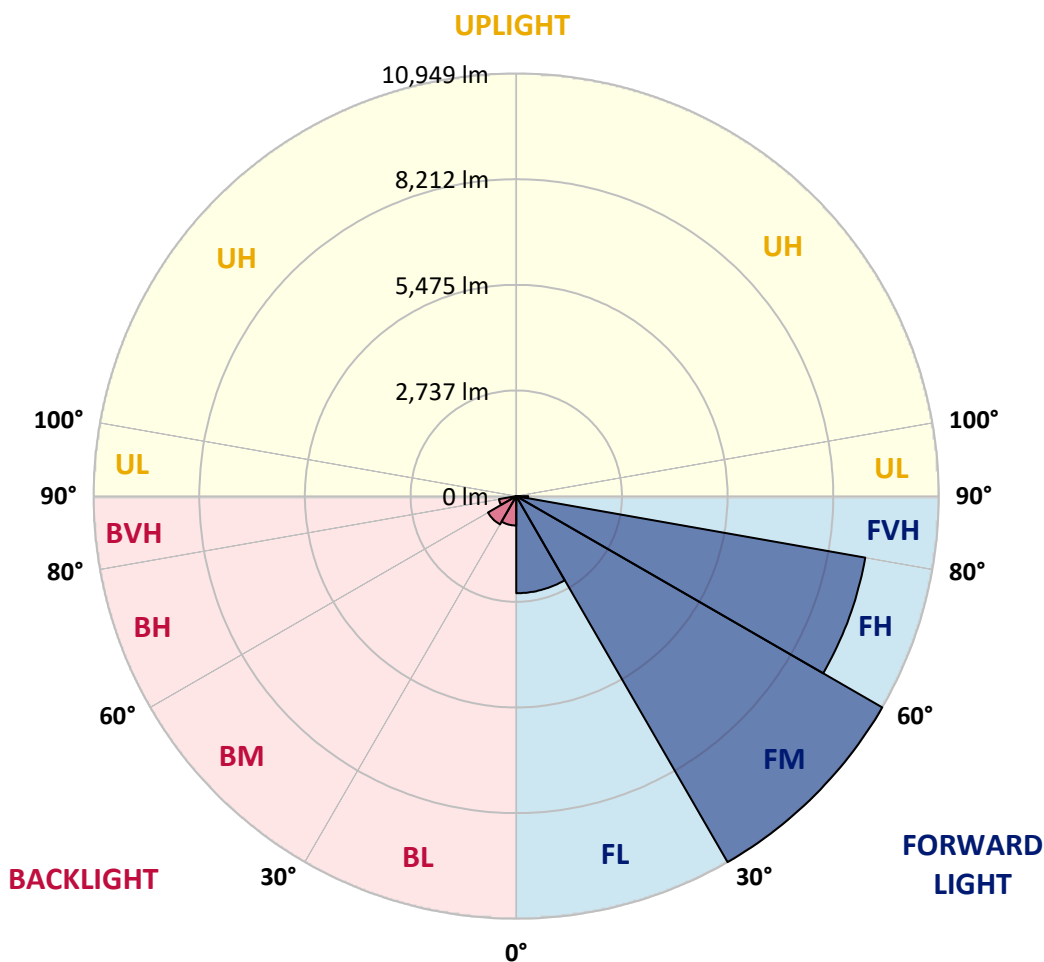
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2515.2	10.1			
FM (30°-60°)	10949.2	43.8			
FH (60°-80°)	9181.8	36.7			G4/12000
FVH (80°-90°)	305.7	1.2			G3/500
BL (0°-30°)	761.7	3.0	B2/1000		
BM (30°-60°)	846.6	3.4	B1/1000		
BH (60°-80°)	454.7	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°	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5
2.5°	7713.0	7739.5	7762.8	7719.6	7756.2	7703.0	7566.8	7536.9	7513.7	7311.0	7194.8
5°	7709.6	7679.8	7703.0	7722.9	7673.1	7713.0	7679.8	7683.1	7593.4	7410.7	7085.2
7.5°	7194.8	7181.5	7194.8	7291.1	7400.7	7487.1	7536.9	7586.7	7527.0	7254.6	6939.0
10°	6500.6	6567.0	6603.5	6776.3	6945.7	7105.1	7261.2	7354.2	7337.6	7228.0	6779.6
12.5°	6015.6	5995.7	6128.5	6241.5	6410.9	6733.1	7005.5	7091.8	7191.5	7038.7	6570.3
15°	5567.2	5514.0	5593.7	5789.7	6078.7	6334.5	6716.5	6846.0	6972.2	7012.1	6457.4
17.5°	5138.7	5165.2	5248.3	5424.3	5696.7	6055.4	6414.2	6600.2	6902.5	6849.3	6288.0
20°	4932.7	4989.2	5019.1	5108.8	5298.1	5656.8	6191.6	6341.1	6663.3	6846.0	6121.9
22.5°	4942.7	4942.7	4872.9	4926.1	5098.8	5377.8	5889.4	6055.4	6567.0	6673.3	5972.4
25°	5049.0	4982.5	4985.9	4922.7	4995.8	5148.6	5617.0	5819.6	6371.0	6689.9	5892.7
27.5°	5128.7	5115.4	5095.5	5078.9	4985.9	5009.1	5437.6	5603.7	6294.6	6670.0	5769.8
30°	5417.7	5357.9	5338.0	5301.4	5178.5	5065.6	5294.8	5504.0	6234.8	6716.5	5700.0
32.5°	5660.2	5670.1	5686.7	5580.4	5474.1	5195.1	5334.6	5500.7	6191.6	6822.8	5769.8
35°	5965.8	6008.9	6015.6	5982.4	5869.4	5593.7	5500.7	5643.6	6264.7	7012.1	5776.4
37.5°	6430.8	6384.3	6510.5	6523.8	6444.1	6078.7	5886.0	5942.5	6480.6	7314.4	6028.9
40°	6733.1	6789.5	7025.4	7171.5	7035.3	6703.2	6444.1	6434.1	6792.9	7789.4	6341.1
42.5°	7068.6	7194.8	7453.9	7769.4	7752.8	7443.9	7181.5	7138.3	7347.6	8477.0	6836.0
45°	7527.0	7639.9	8002.0	8477.0	8736.1	8473.6	8078.4	7992.0	8021.9	9413.7	7679.8
47.5°	8287.6	8257.7	8779.2	9247.6	9672.8	9470.1	9300.7	9048.3	9025.0	10516.5	8845.7
50°	9147.9	9141.3	9606.3	10137.8	10629.4	11024.7	10742.4	10466.7	10473.3	12014.6	10217.5
52.5°	9965.1	10094.6	10596.2	11124.3	11968.1	12393.2	12665.6	12556.0	12027.8	13353.2	11685.7
55°	10396.9	10509.8	11008.1	11918.2	13250.2	14343.1	15080.5	14987.5	13967.7	14861.3	13134.0
57.5°	9988.3	10064.7	10739.0	11931.5	14147.1	16585.2	17292.7	17176.5	15974.0	16013.9	14884.5
60°	8277.7	8397.2	9400.4	10798.8	13798.3	18312.5	20338.7	20162.7	17801.0	17472.1	16010.6
62.5°	5733.2	5813.0	6636.7	8377.3	12144.1	18913.7	23215.3	23311.6	19727.5	18608.1	16346.1
65°	3713.7	3707.0	4178.7	5357.9	8606.5	17093.4	24916.0	25513.9	21587.7	18780.9	16243.1
67°	2624.1	2614.2	2836.7	3633.9	5959.1	14084.0	24886.1	26171.6	22597.5	18830.7	15289.8
67.5°	2421.5	2411.5	2624.1	3341.6	5377.8	13097.4	24514.1	25832.8	22952.9	18760.9	14871.2
70°	1880.1	1853.5	1933.2	2301.9	3132.4	8470.3	20979.8	23730.2	22215.5	17020.4	11875.1
72.5°	1358.6	1388.5	1514.7	1890.0	2458.1	4557.4	15990.6	19189.4	18555.0	12828.4	7546.9
75°	946.7	973.3	1175.9	1541.3	2255.4	2763.6	10812.1	13917.9	12924.7	7081.8	3215.4
77.5°	494.9	528.1	750.7	1232.3	2049.5	2139.2	6460.7	8825.7	6849.3	2521.2	886.9
80°	229.2	245.8	375.4	873.6	1714.0	1880.1	3766.8	4909.5	2740.4	564.7	305.6
82.5°	99.7	109.6	172.7	501.6	1215.7	1644.2	2331.8	2574.3	993.2	182.7	189.3
85°	19.9	23.3	66.4	265.7	587.9	996.5	1637.6	1528.0	498.3	89.7	149.5
87.5°	0.0	0.0	16.6	76.4	159.4	295.6	694.2	694.2	152.8	46.5	56.5
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°	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5	7088.5
2.5°	7091.8	6972.2	6709.8	6467.3	6294.6	6098.6	5839.5	5723.3	5680.1	5620.3	5530.6
5°	6905.8	6759.6	6311.2	5859.5	5364.5	4989.2	4590.6	4358.1	4182.0	4072.4	4035.9
7.5°	6643.4	6344.4	5739.9	5015.8	4374.7	3816.6	3212.1	2803.5	2541.1	2434.8	2335.2
10°	6434.1	6045.5	5125.4	4225.2	3371.5	2554.4	1873.4	1514.7	1242.3	1139.3	1126.1
12.5°	6161.7	5696.7	4550.7	3418.0	2345.1	1521.3	1036.4	900.2	823.8	810.5	800.5
15°	5935.9	5381.1	4006.0	2647.4	1518.0	950.0	807.2	774.0	754.0	747.4	750.7
17.5°	5783.1	5042.3	3447.9	1926.6	999.8	777.3	744.1	724.1	714.2	710.8	700.9
20°	5480.8	4756.7	2896.5	1348.6	780.6	717.5	690.9	674.3	664.3	661.0	657.7
22.5°	5308.1	4394.6	2345.1	940.0	694.2	651.1	631.1	617.8	601.2	591.3	587.9
25°	5135.3	4128.9	1853.5	730.8	631.1	601.2	571.3	554.7	528.1	514.9	511.5
27.5°	4932.7	3866.5	1428.3	634.4	568.0	538.1	508.2	481.6	448.4	435.1	428.5
30°	4816.5	3610.7	1076.2	568.0	521.5	481.6	445.1	411.9	375.4	352.1	345.5
32.5°	4756.7	3378.2	807.2	518.2	471.7	428.5	382.0	342.1	308.9	289.0	285.7
35°	4683.6	3152.3	634.4	471.7	425.2	378.7	332.2	292.3	259.1	242.5	235.8
37.5°	4760.0	3019.4	528.1	435.1	388.6	335.5	285.7	245.8	219.2	202.6	199.3
40°	4969.3	2909.8	458.4	401.9	352.1	295.6	249.1	209.3	186.0	172.7	166.1
42.5°	5291.5	2909.8	415.2	368.7	318.9	259.1	212.6	182.7	159.4	146.2	142.8
45°	5876.1	2999.5	378.7	335.5	279.0	222.6	182.7	152.8	129.5	116.3	112.9
47.5°	6696.5	3205.4	348.8	305.6	249.1	196.0	159.4	129.5	106.3	93.0	89.7
50°	7799.3	3673.8	318.9	269.1	222.6	169.4	132.9	103.0	83.0	69.8	66.4
52.5°	9174.5	4338.1	289.0	249.1	189.3	142.8	106.3	83.0	63.1	53.1	49.8
55°	10629.4	5151.9	252.4	222.6	162.8	119.6	86.4	63.1	46.5	39.9	36.5
57.5°	12094.3	5779.7	222.6	192.7	132.9	96.3	69.8	49.8	33.2	26.6	23.3
60°	12871.6	5839.5	192.7	159.4	106.3	76.4	53.1	36.5	23.3	16.6	13.3
62.5°	12991.1	5308.1	166.1	129.5	86.4	59.8	36.5	26.6	13.3	6.6	6.6
65°	12376.6	4424.5	142.8	103.0	66.4	43.2	26.6	16.6	6.6	3.3	0.0
67°	11380.1	3707.0	122.9	86.4	53.1	33.2	19.9	10.0	3.3	0.0	0.0
67.5°	10994.8	3507.7	116.3	79.7	49.8	29.9	16.6	10.0	3.3	0.0	0.0
70°	8533.4	2504.6	86.4	56.5	36.5	23.3	13.3	6.6	0.0	0.0	0.0
72.5°	5228.3	1464.9	66.4	39.9	26.6	16.6	10.0	3.3	0.0	0.0	0.0
75°	2192.3	504.9	56.5	29.9	19.9	10.0	6.6	3.3	0.0	0.0	0.0
77.5°	571.3	189.3	39.9	19.9	13.3	10.0	6.6	3.3	0.0	0.0	0.0
80°	232.5	86.4	26.6	13.3	13.3	10.0	6.6	3.3	0.0	0.0	0.0
82.5°	152.8	39.9	16.6	13.3	10.0	6.6	3.3	0.0	0.0	0.0	0.0
85°	116.3	23.3	10.0	10.0	6.6	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	49.8	13.3	10.0	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)