

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: P484310

Luminaire Tested: **IFLD-L-SA8B-727-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484310  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-727-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

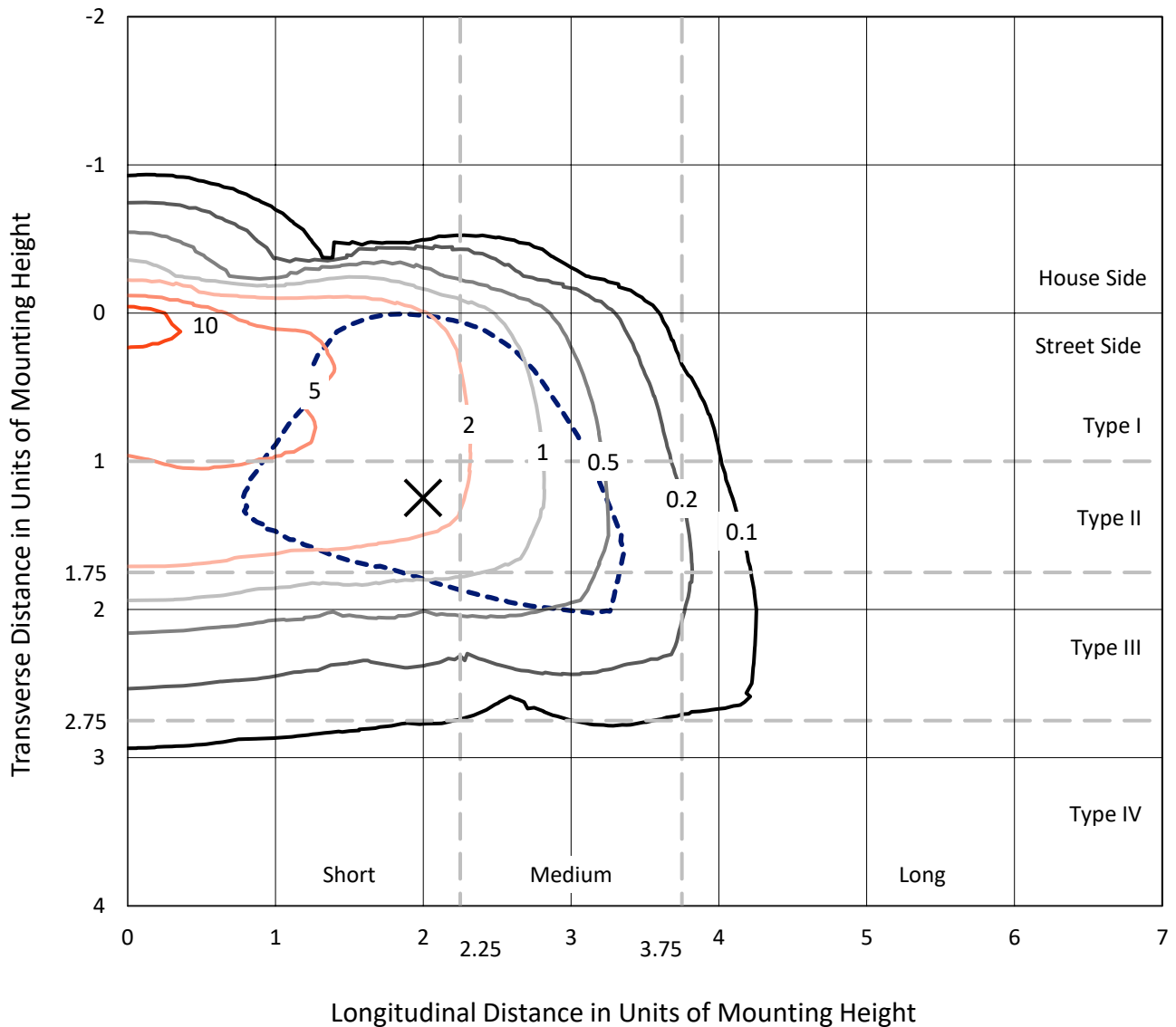
Lumens per Lamp: N/A  
Luminaire Lumens: 28464.4 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

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

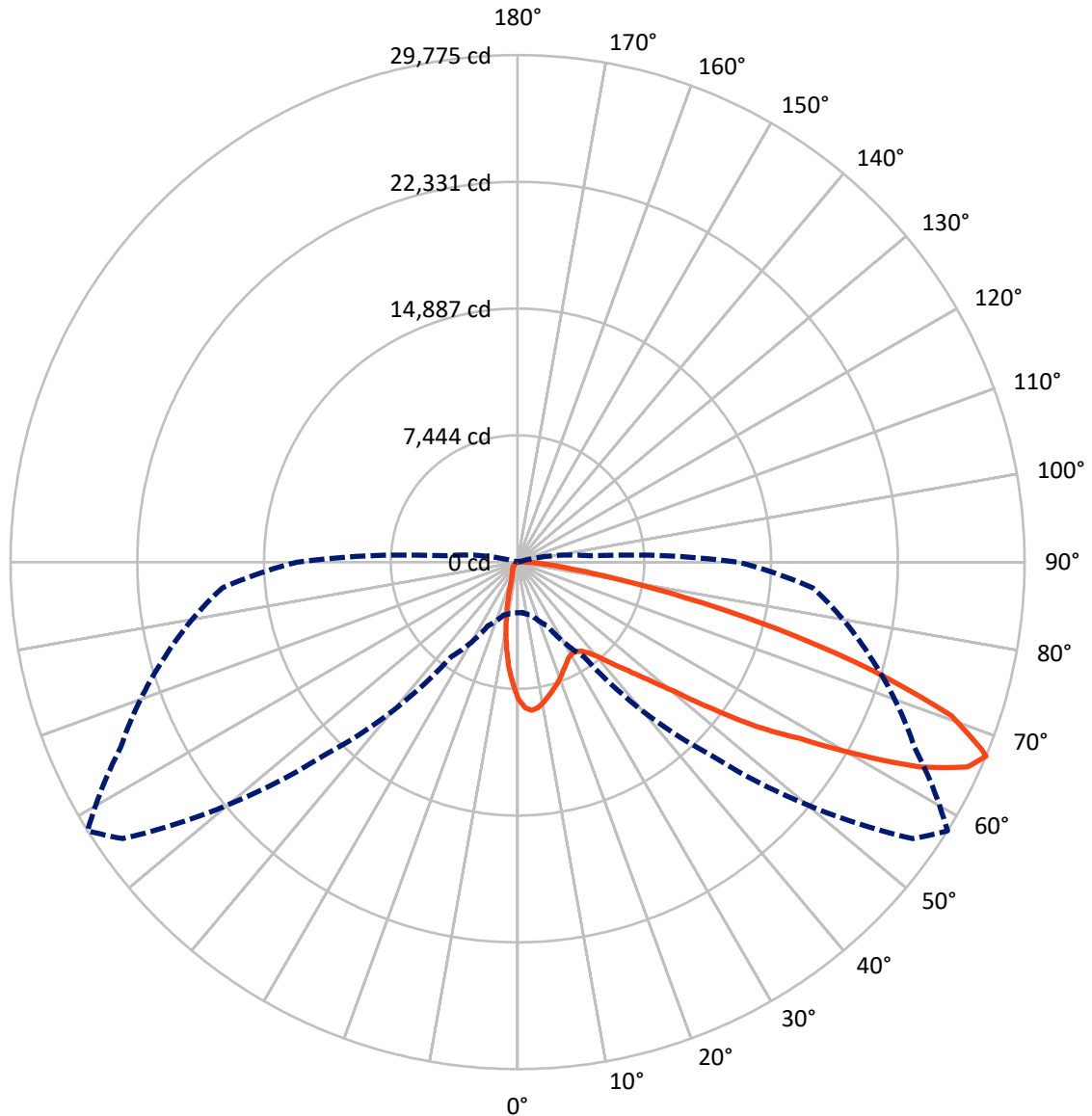
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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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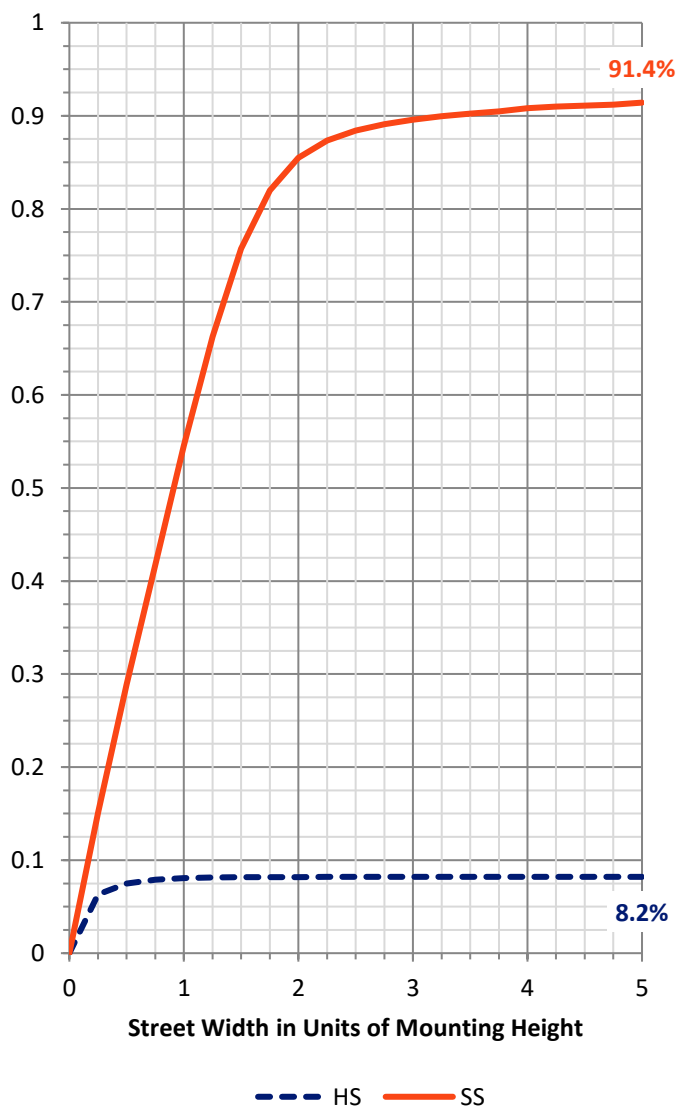
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2352.8	0.0	2352.8
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	26111.6	0.0	26111.6
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	28464.4	0.0	28464.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	639.9	2.2
10°-20°	1327.2	4.7
20°-30°	1760.9	6.2
30°-40°	2440.1	8.6
40°-50°	3981.5	14.0
50°-60°	6998.2	24.6
60°-70°	7751.0	27.2
70°-80°	3212.0	11.3
80°-90°	353.6	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°	28464.4	100.0
0°-180°	28464.4	100.0

**Coefficient of Utilization**



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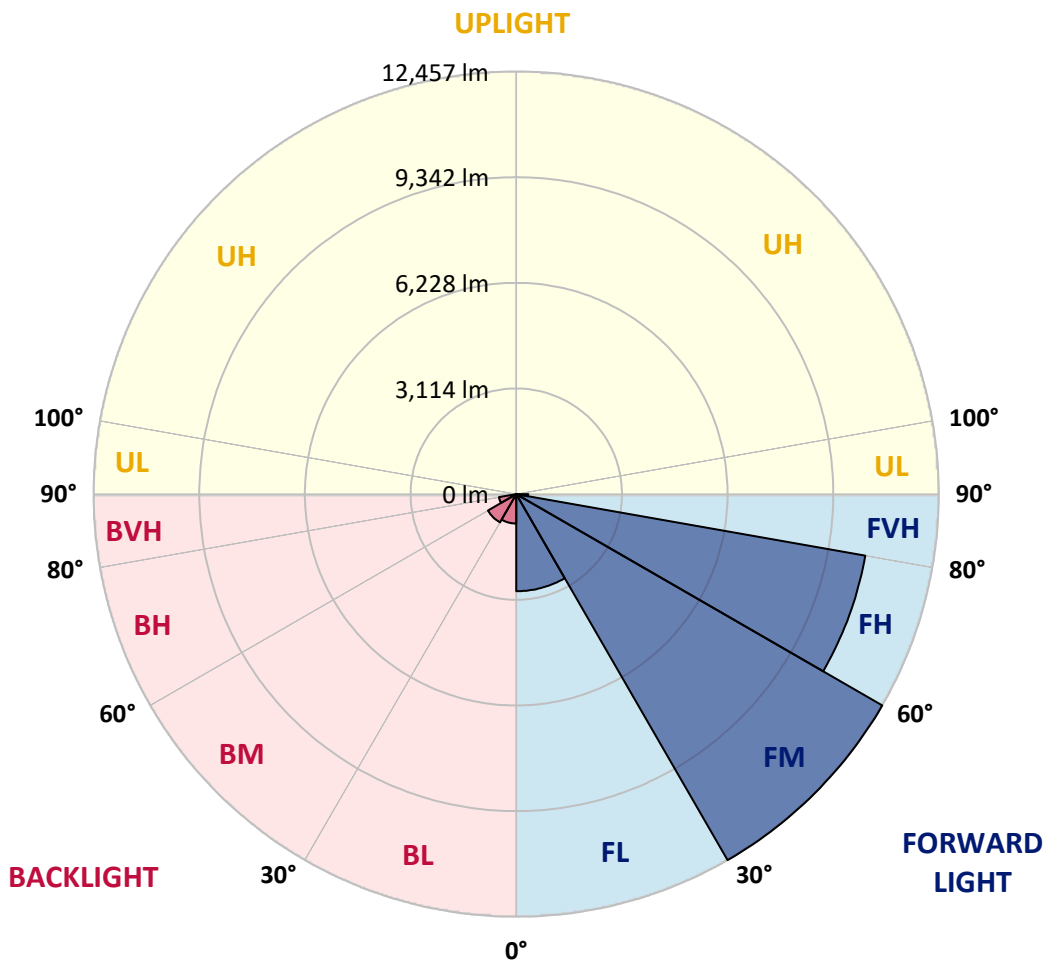
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2861.5	10.1			
FM (30°-60°)	12456.6	43.8			
FH (60°-80°)	10445.8	36.7			G4/12000
FVH (80°-90°)	347.8	1.2			G3/500
BL (0°-30°)	866.5	3.0	B2/1000		
BM (30°-60°)	963.1	3.4	B1/1000		
BH (60°-80°)	517.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.8	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°	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4
2.5°	8774.8	8805.0	8831.5	8782.4	8823.9	8763.5	8608.5	8574.5	8548.1	8317.5	8185.3
5°	8771.0	8737.0	8763.5	8786.1	8729.5	8774.8	8737.0	8740.8	8638.8	8430.9	8060.6
7.5°	8185.3	8170.2	8185.3	8294.9	8419.6	8517.8	8574.5	8631.2	8563.2	8253.3	7894.3
10°	7395.5	7471.1	7512.6	7709.1	7901.9	8083.2	8260.9	8366.7	8347.8	8223.1	7712.9
12.5°	6843.7	6821.1	6972.2	7100.7	7293.4	7660.0	7969.9	8068.1	8181.5	8007.7	7474.8
15°	6333.6	6273.1	6363.8	6586.8	6915.5	7206.5	7641.1	7788.5	7932.1	7977.4	7346.3
17.5°	5846.1	5876.3	5970.8	6171.1	6481.0	6889.1	7297.2	7508.8	7852.7	7792.3	7153.6
20°	5611.8	5676.0	5710.0	5812.1	6027.5	6435.6	7044.0	7214.1	7580.6	7788.5	6964.7
22.5°	5623.1	5623.1	5543.8	5604.2	5800.7	6118.2	6700.1	6889.1	7471.1	7592.0	6794.6
25°	5744.1	5668.5	5672.3	5600.5	5683.6	5857.4	6390.3	6620.8	7248.1	7610.9	6703.9
27.5°	5834.8	5819.6	5797.0	5778.1	5672.3	5698.7	6186.2	6375.1	7161.2	7588.2	6564.1
30°	6163.5	6095.5	6072.8	6031.3	5891.4	5763.0	6023.7	6261.8	7093.2	7641.1	6484.7
32.5°	6439.4	6450.7	6469.6	6348.7	6227.8	5910.3	6069.0	6258.0	7044.0	7762.0	6564.1
35°	6787.1	6836.2	6843.7	6806.0	6677.5	6363.8	6258.0	6420.5	7127.2	7977.4	6571.7
37.5°	7316.1	7263.2	7406.8	7421.9	7331.2	6915.5	6696.4	6760.6	7372.8	8321.3	6858.9
40°	7660.0	7724.2	7992.6	8158.8	8003.9	7626.0	7331.2	7319.9	7728.0	8861.7	7214.1
42.5°	8041.7	8185.3	8480.0	8839.0	8820.2	8468.7	8170.2	8121.0	8359.1	9644.0	7777.2
45°	8563.2	8691.7	9103.6	9644.0	9938.7	9640.2	9190.5	9092.2	9126.2	10709.6	8737.0
47.5°	9428.6	9394.6	9987.9	10520.7	11004.4	10773.9	10581.2	10294.0	10267.5	11964.3	10063.4
50°	10407.3	10399.8	10928.8	11533.5	12092.8	12542.5	12221.2	11907.6	11915.1	13668.6	11624.2
52.5°	11337.0	11484.3	12055.0	12655.8	13615.7	14099.4	14409.3	14284.6	13683.7	15191.5	13294.5
55°	11828.2	11956.7	12523.6	13559.0	15074.4	16317.7	17156.6	17050.8	15890.6	16907.2	14942.1
57.5°	11363.4	11450.3	12217.5	13574.1	16094.7	18868.5	19673.4	19541.1	18173.1	18218.5	16933.6
60°	9417.2	9553.3	10694.5	12285.5	15697.9	20833.5	23138.7	22938.4	20251.6	19877.5	18214.7
62.5°	6522.5	6613.2	7550.4	9530.6	13816.0	21517.5	26411.3	26520.9	22443.4	21169.9	18596.4
65°	4224.9	4217.3	4754.0	6095.5	9791.3	19446.7	28346.2	29026.4	24559.6	21366.4	18479.2
67°	2985.4	2974.1	3227.3	4134.2	6779.5	16022.9	28312.2	29774.6	25708.4	21423.1	17394.7
67.5°	2754.9	2743.5	2985.4	3801.7	6118.2	14900.5	27888.9	29389.2	26112.8	21343.7	16918.5
70°	2138.9	2108.7	2199.4	2618.8	3563.6	9636.4	23868.1	26997.1	25273.9	19363.5	13509.9
72.5°	1545.6	1579.6	1723.2	2150.2	2796.4	5184.8	18192.0	21831.2	21109.4	14594.4	8585.9
75°	1077.0	1107.2	1337.8	1753.4	2565.9	3144.1	12300.6	15833.9	14704.0	8056.8	3658.1
77.5°	563.1	600.9	854.1	1402.0	2331.6	2433.7	7350.1	10040.8	7792.3	2868.2	1009.0
80°	260.7	279.6	427.0	993.9	1950.0	2138.9	4285.4	5585.3	3117.7	642.4	347.7
82.5°	113.4	124.7	196.5	570.6	1383.1	1870.6	2652.8	2928.7	1129.9	207.8	215.4
85°	22.7	26.5	75.6	302.3	668.9	1133.7	1863.0	1738.3	566.8	102.0	170.1
87.5°	0.0	0.0	18.9	86.9	181.4	336.3	789.8	789.8	173.8	52.9	64.2
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°	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4	8064.4
2.5°	8068.1	7932.1	7633.5	7357.7	7161.2	6938.2	6643.5	6511.2	6462.1	6394.0	6292.0
5°	7856.5	7690.2	7180.1	6666.1	6103.1	5676.0	5222.6	4958.0	4757.7	4633.0	4591.5
7.5°	7558.0	7217.9	6530.1	5706.3	4976.9	4342.1	3654.3	3189.5	2890.9	2770.0	2656.6
10°	7319.9	6877.8	5831.0	4806.9	3835.7	2906.0	2131.3	1723.2	1413.3	1296.2	1281.1
12.5°	7010.0	6481.0	5177.2	3888.6	2668.0	1730.8	1179.0	1024.1	937.2	922.1	910.7
15°	6753.0	6122.0	4557.5	3011.9	1727.0	1080.8	918.3	880.5	857.8	850.3	854.1
17.5°	6579.2	5736.5	3922.6	2191.8	1137.5	884.3	846.5	823.8	812.5	808.7	797.4
20°	6235.3	5411.5	3295.3	1534.3	888.1	816.3	786.0	767.1	755.8	752.0	748.2
22.5°	6038.8	4999.6	2668.0	1069.5	789.8	740.7	718.0	702.9	684.0	672.7	668.9
25°	5842.3	4697.3	2108.7	831.4	718.0	684.0	650.0	631.1	600.9	585.7	582.0
27.5°	5611.8	4398.7	1625.0	721.8	646.2	612.2	578.2	548.0	510.2	495.0	487.5
30°	5479.5	4107.8	1224.4	646.2	593.3	548.0	506.4	468.6	427.0	400.6	393.0
32.5°	5411.5	3843.2	918.3	589.5	536.6	487.5	434.6	389.2	351.4	328.8	325.0
35°	5328.4	3586.3	721.8	536.6	483.7	430.8	377.9	332.6	294.8	275.9	268.3
37.5°	5415.3	3435.1	600.9	495.0	442.1	381.7	325.0	279.6	249.4	230.5	226.7
40°	5653.4	3310.4	521.5	457.3	400.6	336.3	283.4	238.1	211.6	196.5	188.9
42.5°	6019.9	3310.4	472.4	419.5	362.8	294.8	241.9	207.8	181.4	166.3	162.5
45°	6685.0	3412.4	430.8	381.7	317.4	253.2	207.8	173.8	147.4	132.3	128.5
47.5°	7618.4	3646.7	396.8	347.7	283.4	223.0	181.4	147.4	120.9	105.8	102.0
50°	8873.1	4179.6	362.8	306.1	253.2	192.7	151.2	117.1	94.5	79.4	75.6
52.5°	10437.6	4935.4	328.8	283.4	215.4	162.5	120.9	94.5	71.8	60.5	56.7
55°	12092.8	5861.2	287.2	253.2	185.2	136.0	98.3	71.8	52.9	45.3	41.6
57.5°	13759.3	6575.4	253.2	219.2	151.2	109.6	79.4	56.7	37.8	30.2	26.5
60°	14643.6	6643.5	219.2	181.4	120.9	86.9	60.5	41.6	26.5	18.9	15.1
62.5°	14779.6	6038.8	188.9	147.4	98.3	68.0	41.6	30.2	15.1	7.6	7.6
65°	14080.5	5033.6	162.5	117.1	75.6	49.1	30.2	18.9	7.6	3.8	0.0
67°	12946.8	4217.3	139.8	98.3	60.5	37.8	22.7	11.3	3.8	0.0	0.0
67.5°	12508.4	3990.6	132.3	90.7	56.7	34.0	18.9	11.3	3.8	0.0	0.0
70°	9708.2	2849.4	98.3	64.2	41.6	26.5	15.1	7.6	0.0	0.0	0.0
72.5°	5948.1	1666.5	75.6	45.3	30.2	18.9	11.3	3.8	0.0	0.0	0.0
75°	2494.1	574.4	64.2	34.0	22.7	11.3	7.6	3.8	0.0	0.0	0.0
77.5°	650.0	215.4	45.3	22.7	15.1	11.3	7.6	3.8	0.0	0.0	0.0
80°	264.5	98.3	30.2	15.1	15.1	11.3	7.6	3.8	0.0	0.0	0.0
82.5°	173.8	45.3	18.9	15.1	11.3	7.6	3.8	0.0	0.0	0.0	0.0
85°	132.3	26.5	11.3	11.3	7.6	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	56.7	15.1	11.3	7.6	7.6	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)