

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: P484970

Luminaire Tested: **IFLD-L-SA7D-830-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484970  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

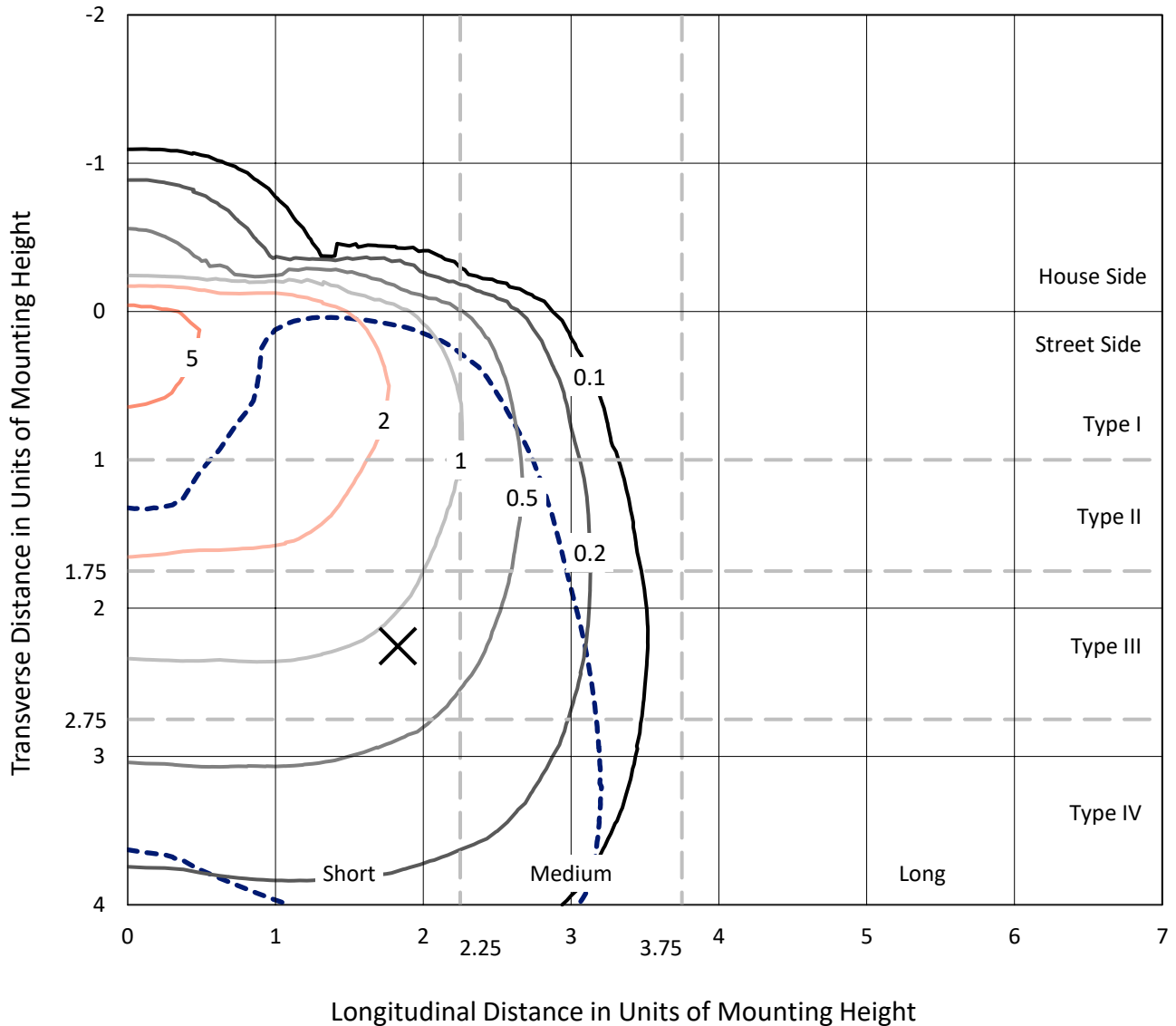
Lumens per Lamp: N/A  
Luminaire Lumens: 32020.2 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6  
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

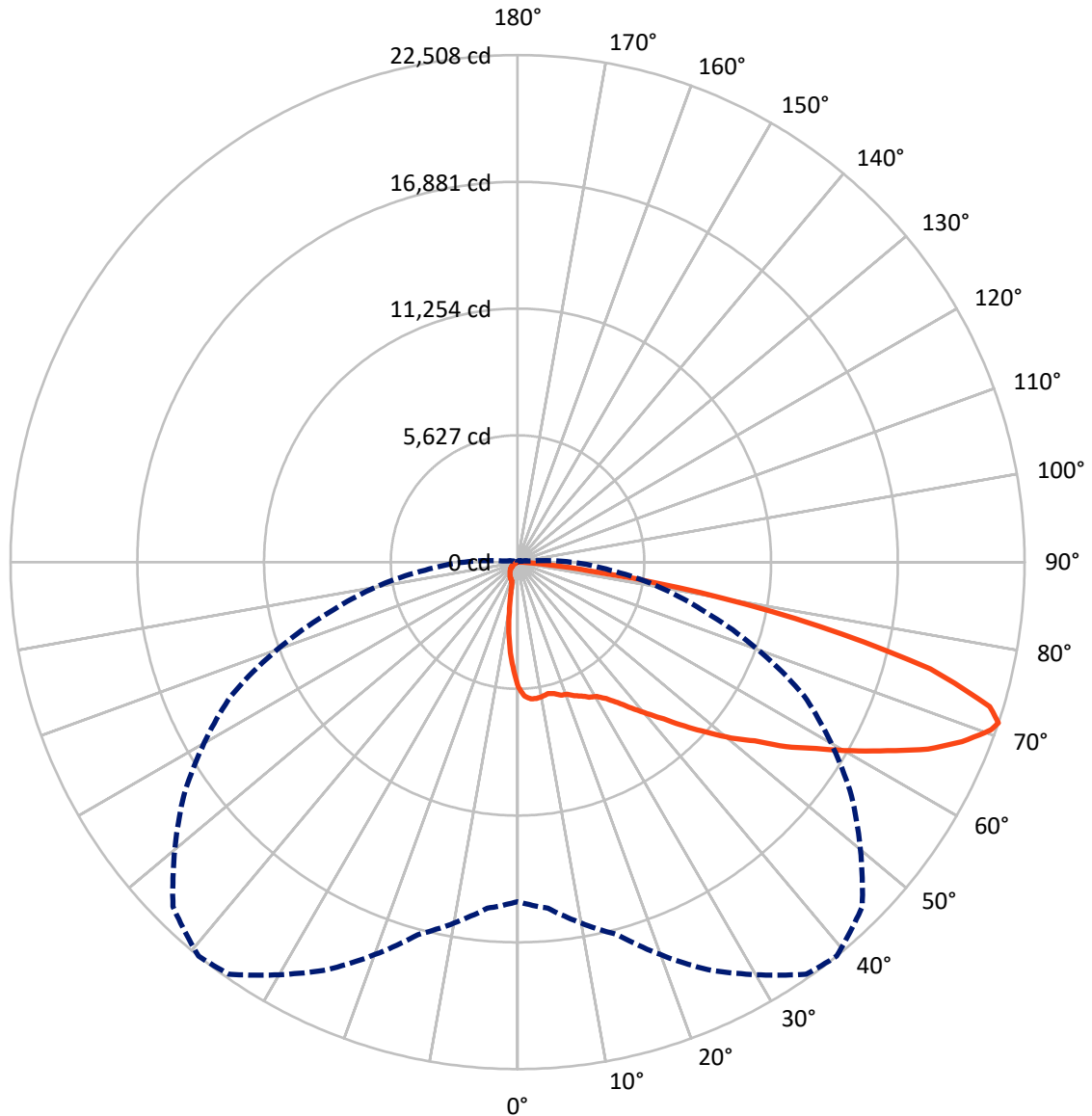
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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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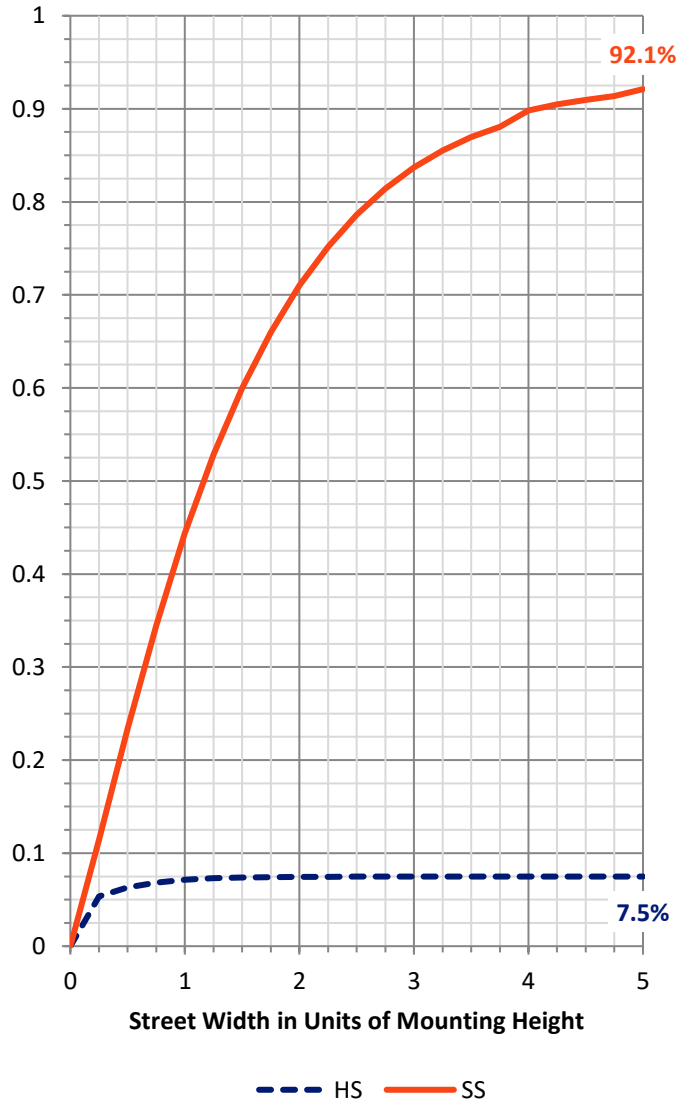
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2410.6	0.0	2410.6
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	29609.6	0.0	29609.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	32020.2	0.0	32020.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.0	1.5
10°-20°	1146.9	3.6
20°-30°	1841.2	5.8
30°-40°	2818.4	8.8
40°-50°	4524.0	14.1
50°-60°	6645.0	20.8
60°-70°	8369.2	26.1
70°-80°	5585.4	17.4
80°-90°	624.2	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°	32020.2	100.0
0°-180°	32020.2	100.0

**Coefficient of Utilization**

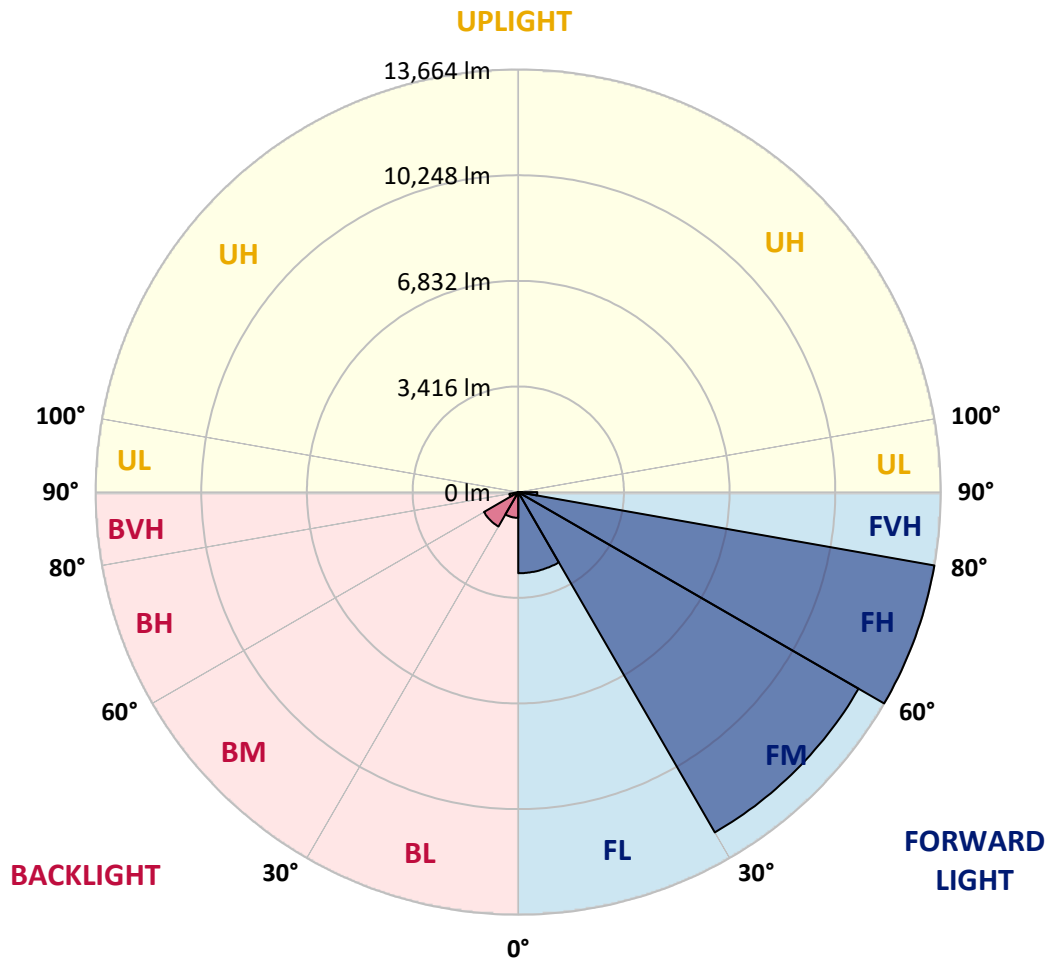


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2621.8	8.2			
FM (30°-60°)	12706.1	39.7			
FH (60°-80°)	13664.4	42.7			G5
FVH (80°-90°)	617.3	1.9			G4/750
BL (0°-30°)	832.3	2.6	B2/1000		
BM (30°-60°)	1281.3	4.0	B2/2500		
BH (60°-80°)	290.1	0.9	B1/500		G1/500
BVH (80°-90°)	6.9	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3
2.5°	6005.9	6064.7	6005.9	5980.7	5955.5	5959.7	5892.5	5905.1	5825.3	5720.3	5636.3
5°	6194.9	6274.7	6211.7	6182.3	6178.1	6098.3	6064.7	5984.9	5888.3	5724.5	5623.7
7.5°	6178.1	6161.3	6190.7	6165.5	6110.9	6110.9	6073.1	5959.7	5863.1	5678.3	5506.1
10°	6052.1	6102.5	6077.3	6047.9	6060.5	6064.7	5993.3	5913.5	5884.1	5699.3	5417.9
12.5°	6039.5	5955.5	6047.9	6052.1	5997.5	5993.3	5984.9	5963.9	5871.5	5703.5	5438.9
15°	5997.5	5963.9	6056.3	6060.5	6073.1	6060.5	6073.1	6056.3	5963.9	5867.3	5531.3
17.5°	6031.1	5993.3	6123.5	6186.5	6157.1	6215.9	6194.9	6119.3	6039.5	5926.1	5619.5
20°	6039.5	6094.1	6236.9	6262.1	6354.5	6257.9	6253.7	6173.9	6123.5	6001.7	5674.1
22.5°	6194.9	6220.1	6396.5	6451.1	6455.3	6442.7	6337.7	6245.3	6224.3	6073.1	5686.7
25°	6430.1	6518.3	6598.1	6631.7	6644.3	6585.5	6476.3	6358.7	6308.3	6211.7	5816.9
27.5°	6845.9	6791.3	6862.7	6913.1	6770.3	6791.3	6652.7	6551.9	6480.5	6396.5	5968.1
30°	7215.5	7165.1	7169.3	7160.9	7039.1	6925.7	6887.9	6711.5	6623.3	6656.9	6203.3
32.5°	7547.3	7438.1	7530.5	7488.5	7261.7	7228.1	7198.7	6976.1	6992.9	7148.3	6556.1
35°	7853.9	7816.1	7891.7	7816.1	7664.9	7656.5	7627.1	7433.9	7526.3	7748.9	7160.9
37.5°	8135.3	8147.9	8240.3	8202.5	8215.1	8223.5	8206.7	8000.9	8265.5	8765.3	7866.5
40°	8395.7	8378.9	8605.7	8723.3	8748.5	8840.9	8840.9	8790.5	9197.9	9760.7	8845.1
42.5°	8672.9	8714.9	9008.9	9206.3	9445.7	9525.5	9634.7	9659.9	10289.8	10932.4	9844.7
45°	9126.5	9055.1	9428.9	9895.1	10105.1	10386.4	10554.4	10697.2	11457.4	12339.4	10844.2
47.5°	9701.9	9559.1	9886.7	10562.8	11050.0	11281.0	11583.4	11772.4	12515.8	13427.2	11789.2
50°	10340.2	10193.3	10352.8	11285.2	11852.2	12272.2	12658.6	12898.0	13796.8	14645.2	12478.0
52.5°	11062.6	10928.2	10953.4	12037.0	12872.8	13179.4	13687.6	14044.6	14939.2	15380.2	12721.6
55°	11831.2	11797.6	11717.8	12772.0	13767.4	14456.2	14762.8	15191.2	16111.0	15779.2	12986.2
57.5°	12604.0	12499.0	12612.4	13746.4	15203.8	15615.4	16039.6	16295.8	16762.0	16127.8	12885.4
60°	13330.6	13339.0	13498.6	14804.8	16426.0	17009.8	17391.9	17236.5	17429.7	16279.0	12654.4
62.5°	13943.8	13927.0	14330.2	15993.4	18042.9	18437.7	18723.3	18030.3	17740.5	16426.0	12251.2
65°	14494.0	14683.0	15317.2	17408.7	19563.3	20016.9	19844.7	18782.1	18042.9	15993.4	11117.2
67.5°	14909.8	15191.2	16291.6	18740.1	20957.7	21276.9	21037.5	19353.3	17685.9	14296.6	9055.1
70°	15153.4	15439.0	16988.8	19848.9	22070.7	22301.7	21738.9	18912.3	15602.8	10352.8	5648.9
71°	15077.8	15426.4	17123.1	19966.5	22335.3	22507.5	21633.9	18097.5	14032.0	8668.7	4120.1
72.5°	14393.2	14720.8	16564.6	19882.5	22016.1	21911.1	20814.9	16140.4	11045.8	5527.1	2129.4
75°	10575.4	10928.2	14216.8	17198.7	19651.5	18929.1	16846.0	11327.2	5762.3	1692.6	621.6
77.5°	5266.7	5325.5	8824.1	12486.4	14414.2	13696.0	11289.4	6316.7	2154.6	499.8	310.8
80°	2427.6	2444.4	3309.6	6467.9	8714.9	8202.5	6325.1	3116.4	974.4	264.6	243.6
82.5°	1654.8	1680.0	1995.0	2679.6	3784.1	3192.0	2562.0	1995.0	558.6	159.6	239.4
85°	302.4	277.2	1117.2	1419.6	1461.6	991.2	886.2	1726.2	210.0	92.4	210.0
87.5°	0.0	4.2	155.4	579.6	520.8	231.0	302.4	420.0	21.0	29.4	37.8
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°	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3	5573.3
2.5°	5564.9	5518.7	5363.3	5191.1	5035.7	4913.9	4758.5	4687.1	4573.7	4510.7	4506.5
5°	5485.1	5359.1	5090.3	4800.5	4477.1	4208.3	3910.1	3742.1	3548.9	3490.1	3477.5
7.5°	5350.7	5170.1	4775.3	4367.9	3872.3	3397.8	3032.4	2641.8	2402.4	2301.6	2263.8
10°	5266.7	5048.3	4510.7	3901.7	3208.8	2541.0	2028.6	1612.8	1394.4	1289.4	1264.2
12.5°	5266.7	5031.5	4296.5	3456.5	2536.8	1738.8	1255.8	1016.4	945.0	919.8	919.8
15°	5254.1	4997.9	4090.7	2998.8	1877.4	1167.6	936.6	886.2	877.8	873.6	869.4
17.5°	5317.1	4939.1	3880.7	2507.4	1327.2	919.8	861.0	852.6	844.2	844.2	835.8
20°	5363.3	4905.5	3628.7	1986.6	991.2	852.6	827.4	814.8	810.6	806.4	814.8
22.5°	5325.5	4855.1	3318.0	1486.8	865.2	810.6	793.8	781.2	772.8	772.8	777.0
25°	5396.9	4808.9	3007.2	1121.4	810.6	772.8	756.0	747.6	743.4	739.2	730.8
27.5°	5493.5	4829.9	2637.6	903.0	764.4	735.0	718.2	709.8	705.6	697.2	705.6
30°	5611.1	4825.7	2230.2	789.6	722.4	693.0	676.2	672.0	663.6	659.4	663.6
32.5°	5812.7	4934.9	1810.2	730.8	676.2	651.0	634.2	630.0	625.8	621.6	617.4
35°	6245.3	5069.3	1415.4	684.6	634.2	604.8	592.2	583.8	579.6	575.4	571.2
37.5°	6778.7	5367.5	1079.4	642.6	592.2	562.8	550.2	546.0	529.2	525.0	520.8
40°	7446.5	5686.7	831.6	596.4	554.4	525.0	512.4	499.8	478.8	470.4	462.0
42.5°	8278.1	5997.5	684.6	554.4	512.4	491.4	470.4	449.4	432.6	415.8	407.4
45°	9109.7	6358.7	600.6	516.6	478.8	453.6	436.8	407.4	378.0	352.8	348.6
47.5°	9802.7	6488.9	550.2	474.6	445.2	424.2	399.0	361.2	319.2	294.0	289.8
50°	10319.2	6413.3	499.8	432.6	407.4	386.4	352.8	306.6	264.6	239.4	231.0
52.5°	10420.0	6081.5	453.6	399.0	369.6	344.4	306.6	256.2	210.0	184.8	180.6
55°	10348.6	5531.3	415.8	369.6	336.0	298.2	256.2	205.8	163.8	138.6	134.4
57.5°	10201.7	4880.3	373.8	331.8	294.0	256.2	210.0	168.0	121.8	96.6	96.6
60°	9701.9	3994.1	331.8	289.8	252.0	218.4	172.2	121.8	84.0	63.0	58.8
62.5°	9004.7	3070.2	289.8	247.8	218.4	180.6	134.4	88.2	50.4	33.6	33.6
65°	7732.1	2150.4	243.6	205.8	180.6	147.0	100.8	54.6	29.4	12.6	12.6
67.5°	5875.7	1331.4	201.6	172.2	155.4	117.6	71.4	33.6	12.6	4.2	0.0
70°	3372.6	693.0	159.6	138.6	121.8	88.2	50.4	16.8	8.4	0.0	0.0
71°	2356.2	512.4	142.8	121.8	109.2	79.8	42.0	12.6	4.2	0.0	0.0
72.5°	1180.2	340.2	121.8	100.8	88.2	63.0	33.6	12.6	4.2	0.0	0.0
75°	420.0	218.4	84.0	67.2	63.0	46.2	21.0	8.4	4.2	0.0	0.0
77.5°	289.8	176.4	58.8	42.0	42.0	29.4	12.6	4.2	4.2	0.0	0.0
80°	264.6	96.6	37.8	25.2	21.0	16.8	8.4	4.2	0.0	0.0	0.0
82.5°	264.6	71.4	21.0	16.8	12.6	8.4	4.2	0.0	0.0	0.0	0.0
85°	184.8	37.8	12.6	12.6	8.4	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	29.4	12.6	8.4	4.2	4.2	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)