

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: P483960

Luminaire Tested: **IFLD-L-SA8C-730-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483960  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-730-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2  
distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

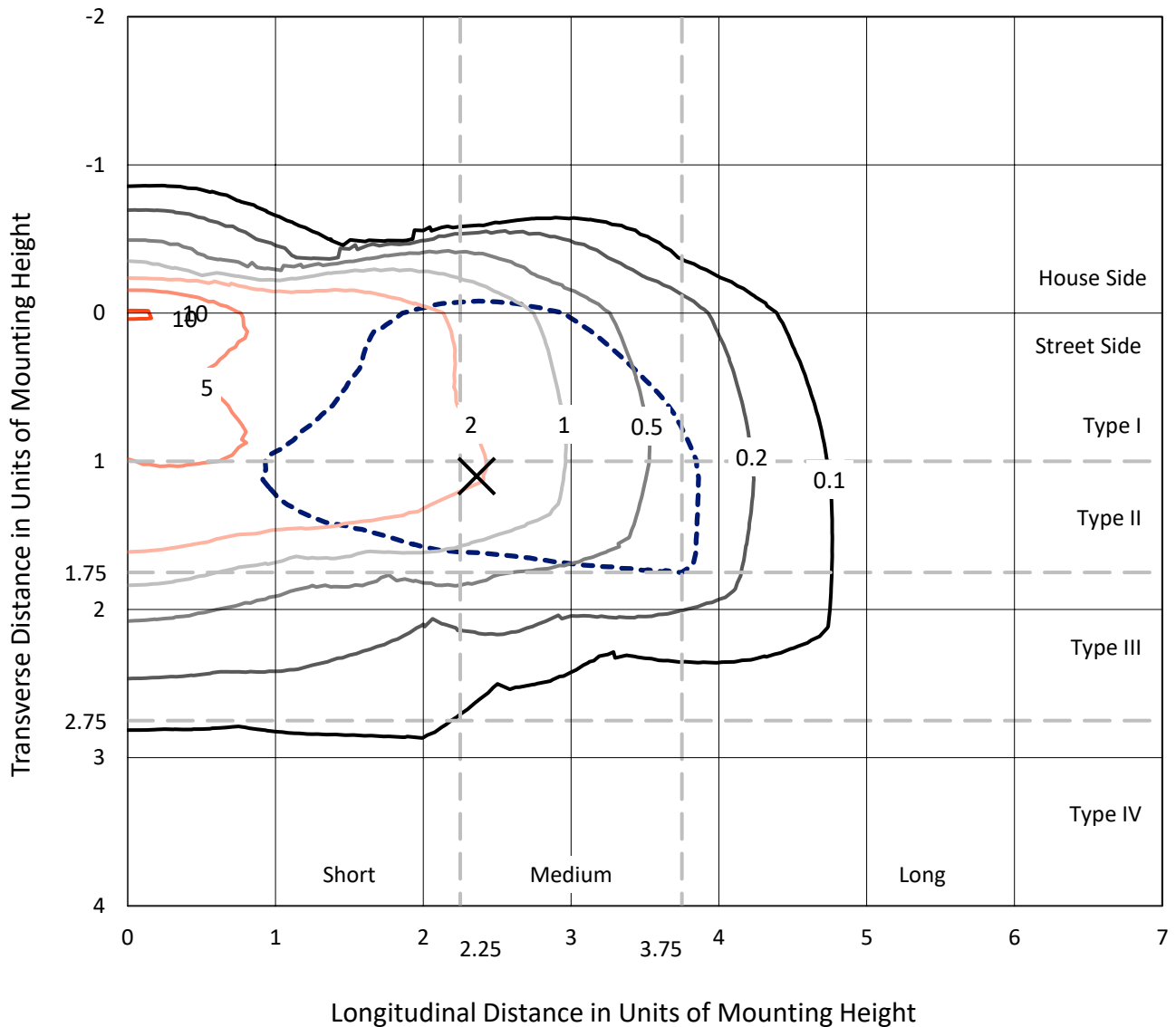
Lumens per Lamp: N/A  
Luminaire Lumens: 37971.2 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

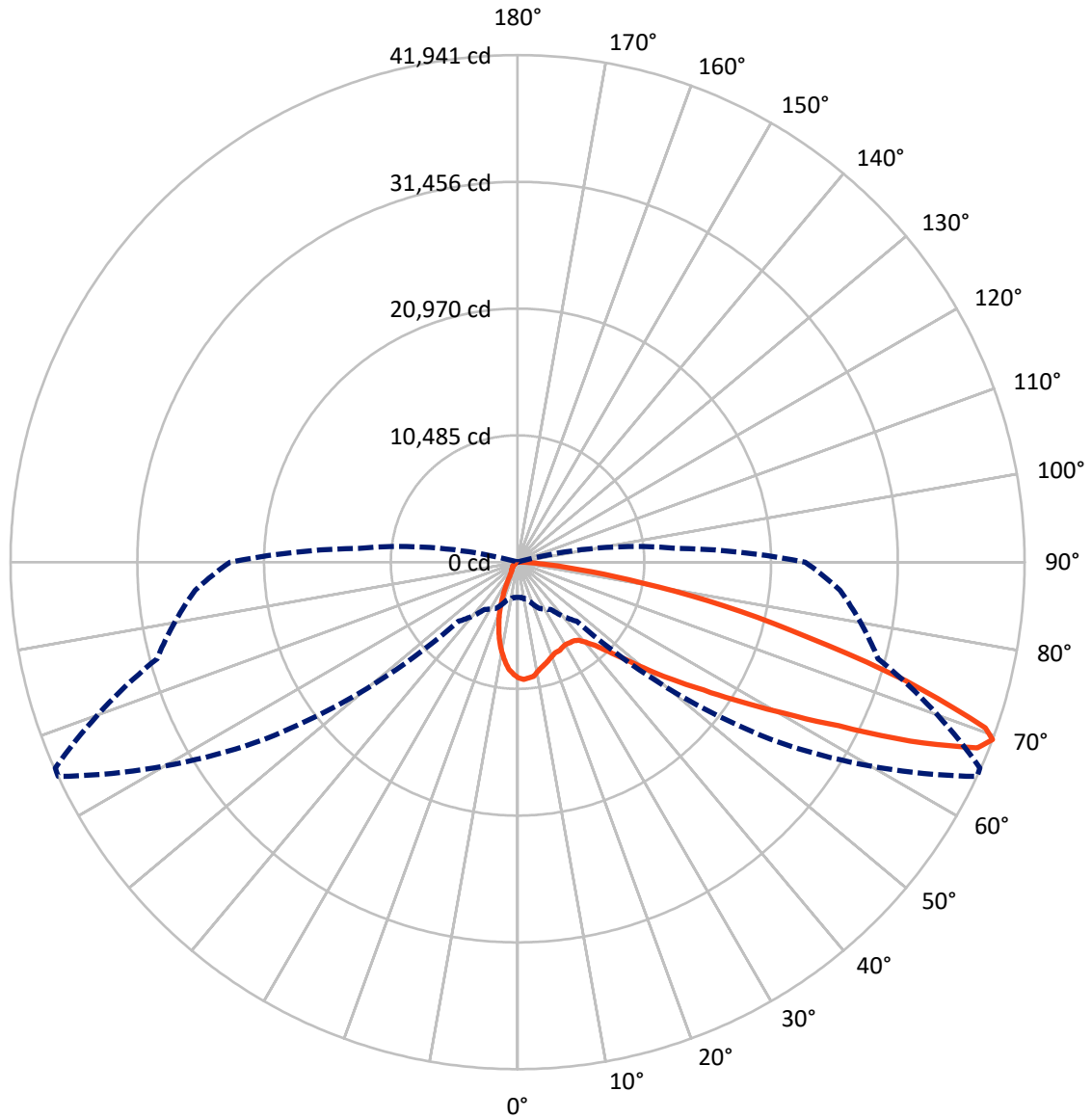
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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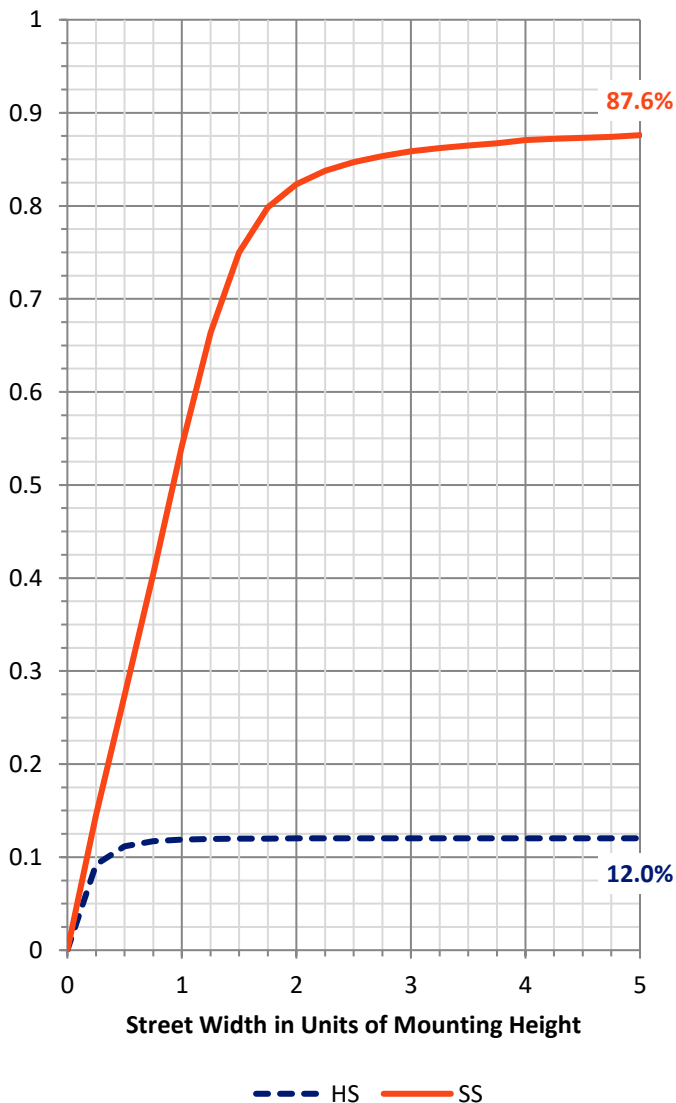
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4606.1	0.0	4606.1
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	33365.1	0.0	33365.1
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	37971.2	0.0	37971.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	783.4	2.1
10°-20°	1714.1	4.5
20°-30°	2386.4	6.3
30°-40°	3381.8	8.9
40°-50°	5329.6	14.0
50°-60°	8648.1	22.8
60°-70°	9658.1	25.4
70°-80°	5438.6	14.3
80°-90°	631.1	1.7
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°	37971.2	100.0
0°-180°	37971.2	100.0



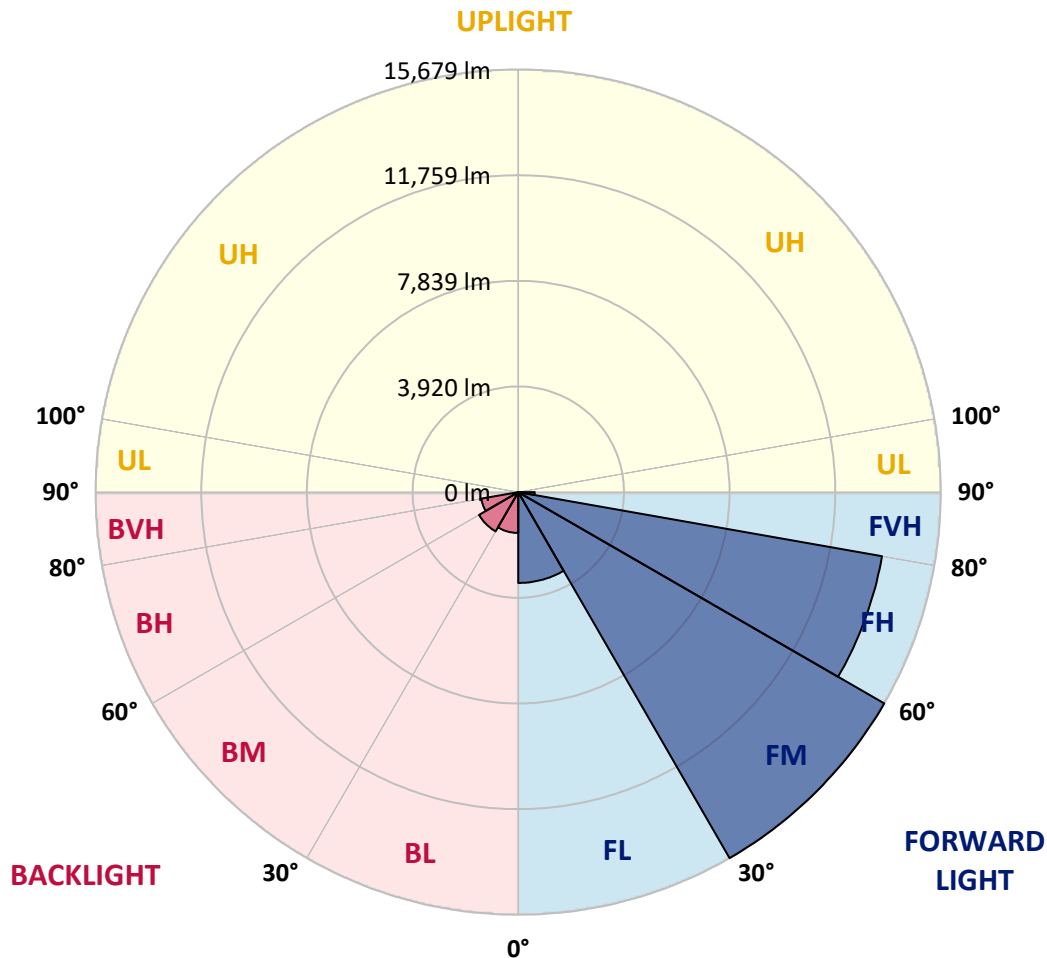
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3369.6	8.9			
FM (30°-60°)	15678.7	41.3			
FH (60°-80°)	13703.1	36.1			G5
FVH (80°-90°)	613.7	1.6			G4/750
BL (0°-30°)	1514.4	4.0	B3/2500		
BM (30°-60°)	1680.8	4.4	B2/2500		
BH (60°-80°)	1393.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	17.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4
2.5°	9220.0	9291.7	9312.2	9383.9	9419.8	9573.4	9660.5	9711.7	9686.1	9742.5	9747.6
5°	8564.3	8523.4	8630.9	8707.8	8871.7	9138.0	9409.5	9619.5	9716.8	9809.0	9793.7
7.5°	7862.6	7842.1	7949.7	8123.8	8272.4	8595.1	9030.5	9547.8	9527.3	9752.7	9819.3
10°	7381.1	7401.6	7437.5	7611.6	7831.9	8159.7	8702.6	9184.1	9291.7	9768.1	9901.2
12.5°	6940.6	6976.5	7043.0	7222.3	7478.4	7816.5	8344.1	8907.5	9071.4	9681.0	9947.3
15°	6797.2	6715.2	6848.4	6981.6	7247.9	7550.1	7995.8	8697.5	8769.2	9578.5	10024.2
17.5°	6679.4	6628.1	6689.6	6797.2	7078.9	7324.8	7744.8	8472.1	8605.3	9537.6	10013.9
20°	6715.2	6669.1	6694.7	6776.7	6904.7	7135.2	7524.5	8257.0	8400.4	9348.0	9998.6
22.5°	6817.7	6853.5	6807.4	6827.9	6868.9	6986.7	7406.7	8103.3	8226.3	9312.2	10085.6
25°	7278.7	7217.2	7155.7	7130.1	6889.4	6940.6	7370.9	8093.1	8180.2	9184.1	10013.9
27.5°	7760.2	7708.9	7683.3	7534.8	7207.0	7053.3	7376.0	7949.7	8067.5	9132.9	9926.9
30°	8344.1	8410.7	8308.2	8129.0	7673.1	7294.0	7432.3	7878.0	8041.9	8938.3	9870.5
32.5°	8958.8	8994.6	9045.8	8912.7	8323.6	7657.7	7601.4	7944.6	7954.8	8938.3	9742.5
35°	9655.4	9604.2	9737.3	9747.6	9230.2	8303.1	7924.1	7990.7	8098.2	8897.3	9696.4
37.5°	10254.7	10341.8	10495.4	10741.3	10208.6	9214.9	8426.0	8205.8	8251.9	9086.8	9732.2
40°	10910.3	10997.4	11345.7	11591.6	11289.4	10239.3	9189.3	8707.8	8743.6	9368.5	9916.6
42.5°	11632.6	11801.6	12216.5	12646.8	12564.8	11540.4	10172.7	9445.4	9430.0	10070.3	10295.7
45°	12610.9	12836.3	13287.0	13783.9	13855.6	13030.9	11484.0	10546.6	10597.9	10987.2	11079.4
47.5°	13973.4	13963.2	14403.7	14956.9	15371.8	14577.8	13051.4	12027.0	12021.8	12436.7	12242.1
50°	15289.8	15294.9	15412.7	16053.0	17128.7	16724.0	14992.7	13993.9	13937.6	14142.4	13830.0
52.5°	15899.4	15827.6	15740.6	16514.0	18481.0	19428.6	17451.4	16222.1	16176.0	16053.0	15971.1
55°	15259.1	15284.7	15279.6	16083.8	19192.9	22281.6	20606.7	18675.6	18598.8	18214.6	18327.3
57.5°	13205.1	13123.1	13302.4	14557.3	18378.5	24228.1	25119.3	21769.4	21569.7	20294.2	20038.1
60°	9829.5	9855.1	10003.7	11484.0	16355.2	24637.9	29437.4	25401.1	24540.5	21759.2	21405.7
62.5°	6863.8	6812.5	6868.9	7698.7	11694.0	22998.8	32357.0	29816.4	28986.6	23423.9	23219.0
65°	4912.2	4845.6	5071.0	5578.1	7022.6	17584.6	32771.9	35696.7	34954.0	26082.3	25590.6
67.5°	3534.3	3524.1	3785.3	4707.3	4989.0	10126.6	29698.6	41023.8	40573.1	29237.6	27035.1
69°	2924.8	2929.9	3180.9	4215.6	4763.7	6915.0	25554.7	41940.7	41858.8	30866.5	26763.6
70°	2550.9	2571.4	2863.3	3923.6	4671.5	5685.7	22030.7	41039.2	40957.2	31184.1	25867.2
72.5°	1572.5	1587.9	1972.1	3145.0	4441.0	4640.7	13174.3	33576.1	33857.9	29729.3	22286.8
75°	753.0	758.1	1034.7	2274.3	4282.2	4400.0	7058.4	24776.2	25370.3	24002.7	17415.5
77.5°	399.5	399.5	496.9	1208.8	3467.7	4138.8	4190.0	17477.0	17968.7	15177.1	9901.2
80°	199.8	204.9	302.2	630.0	2151.3	4056.8	3273.1	10423.7	10690.1	6192.8	3083.6
82.5°	76.8	82.0	143.4	379.0	1116.6	3426.8	2873.6	5127.3	5060.7	1449.6	753.0
85°	10.2	10.2	51.2	225.4	476.4	1511.1	2371.6	2141.1	2069.4	317.6	363.7
87.5°	0.0	0.0	10.2	66.6	143.4	440.5	916.9	589.1	655.6	87.1	179.3
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°	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4	9573.4
2.5°	9722.0	9614.4	9450.5	9291.7	9122.7	8917.8	8692.4	8610.4	8467.0	8456.8	8538.7
5°	9711.7	9537.6	9250.7	8912.7	8431.2	8067.5	7673.1	7386.2	7166.0	7022.6	7058.4
7.5°	9762.9	9552.9	9056.1	8328.7	7708.9	6986.7	6377.2	5957.1	5573.0	5383.4	5363.0
10°	9681.0	9399.3	8671.9	7652.6	6740.8	5731.8	4840.5	4277.1	3703.4	3493.4	3503.6
12.5°	9727.1	9332.7	8257.0	6956.0	5701.0	4389.7	3324.3	2556.0	2018.2	1844.0	1823.5
15°	9757.8	9189.3	7857.5	6121.0	4548.5	2991.4	1926.0	1449.6	1280.6	1249.8	1244.7
17.5°	9640.0	9015.1	7294.0	5296.4	3370.4	1818.4	1280.6	1183.2	1152.5	1132.0	1121.8
20°	9634.9	8912.7	6807.4	4451.2	2248.7	1239.6	1106.4	1070.5	1024.4	1009.1	1009.1
22.5°	9547.8	8697.5	6223.5	3524.1	1434.2	1065.4	993.7	937.4	886.1	865.7	860.5
25°	9522.2	8446.5	5675.4	2648.2	1091.0	952.7	881.0	799.1	737.6	706.9	691.5
27.5°	9450.5	8231.4	5122.2	1864.5	952.7	850.3	758.1	671.0	599.3	553.2	548.1
30°	9194.4	8006.0	4507.6	1290.8	865.7	753.0	650.5	548.1	476.4	445.6	435.4
32.5°	9086.8	7796.0	3836.5	993.7	788.8	665.9	548.1	455.9	399.5	368.8	363.7
35°	8958.8	7488.7	3186.0	865.7	717.1	578.8	461.0	384.2	338.1	312.5	312.5
37.5°	8974.1	7242.8	2576.5	783.7	640.3	496.9	394.4	327.8	286.8	261.2	261.2
40°	8928.0	7048.2	2002.8	712.0	568.6	425.1	332.9	276.6	240.7	215.1	210.0
42.5°	9138.0	6996.9	1511.1	650.5	496.9	363.7	286.8	235.6	199.8	169.0	169.0
45°	9491.5	7078.9	1178.1	594.2	425.1	312.5	245.9	194.6	158.8	138.3	133.2
47.5°	10434.0	7401.6	922.0	548.1	363.7	271.5	204.9	158.8	128.1	107.6	102.4
50°	11801.6	8123.8	783.7	481.5	307.3	230.5	169.0	122.9	102.4	82.0	76.8
52.5°	13748.0	9337.8	712.0	425.1	256.1	189.5	133.2	97.3	76.8	61.5	56.3
55°	15868.6	10854.0	645.4	358.6	215.1	153.7	107.6	76.8	56.3	41.0	35.9
57.5°	17523.1	12165.3	589.1	297.1	174.2	122.9	82.0	56.3	41.0	25.6	20.5
60°	19331.2	13087.3	517.3	235.6	143.4	92.2	61.5	41.0	30.7	15.4	15.4
62.5°	21195.7	14168.1	425.1	184.4	112.7	71.7	46.1	30.7	20.5	5.1	5.1
65°	23787.6	15013.2	327.8	143.4	87.1	51.2	35.9	25.6	10.2	0.0	0.0
67.5°	24520.1	14598.3	240.7	112.7	61.5	35.9	25.6	15.4	5.1	0.0	0.0
69°	23787.6	13148.7	210.0	97.3	51.2	30.7	20.5	10.2	5.1	0.0	0.0
70°	22450.7	12021.8	184.4	82.0	46.1	30.7	15.4	10.2	5.1	0.0	0.0
72.5°	18778.0	9220.0	143.4	61.5	35.9	25.6	15.4	10.2	0.0	0.0	0.0
75°	13773.6	5695.9	107.6	46.1	30.7	20.5	15.4	10.2	0.0	0.0	0.0
77.5°	7381.1	2079.6	76.8	30.7	20.5	15.4	15.4	10.2	0.0	0.0	0.0
80°	2023.3	614.7	56.3	20.5	15.4	10.2	10.2	5.1	0.0	0.0	0.0
82.5°	553.2	158.8	35.9	20.5	15.4	10.2	5.1	0.0	0.0	0.0	0.0
85°	297.1	61.5	20.5	15.4	10.2	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	153.7	20.5	15.4	10.2	10.2	5.1	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)