

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: P484936

Luminaire Tested: **IFLD-L-SA8D-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484936
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

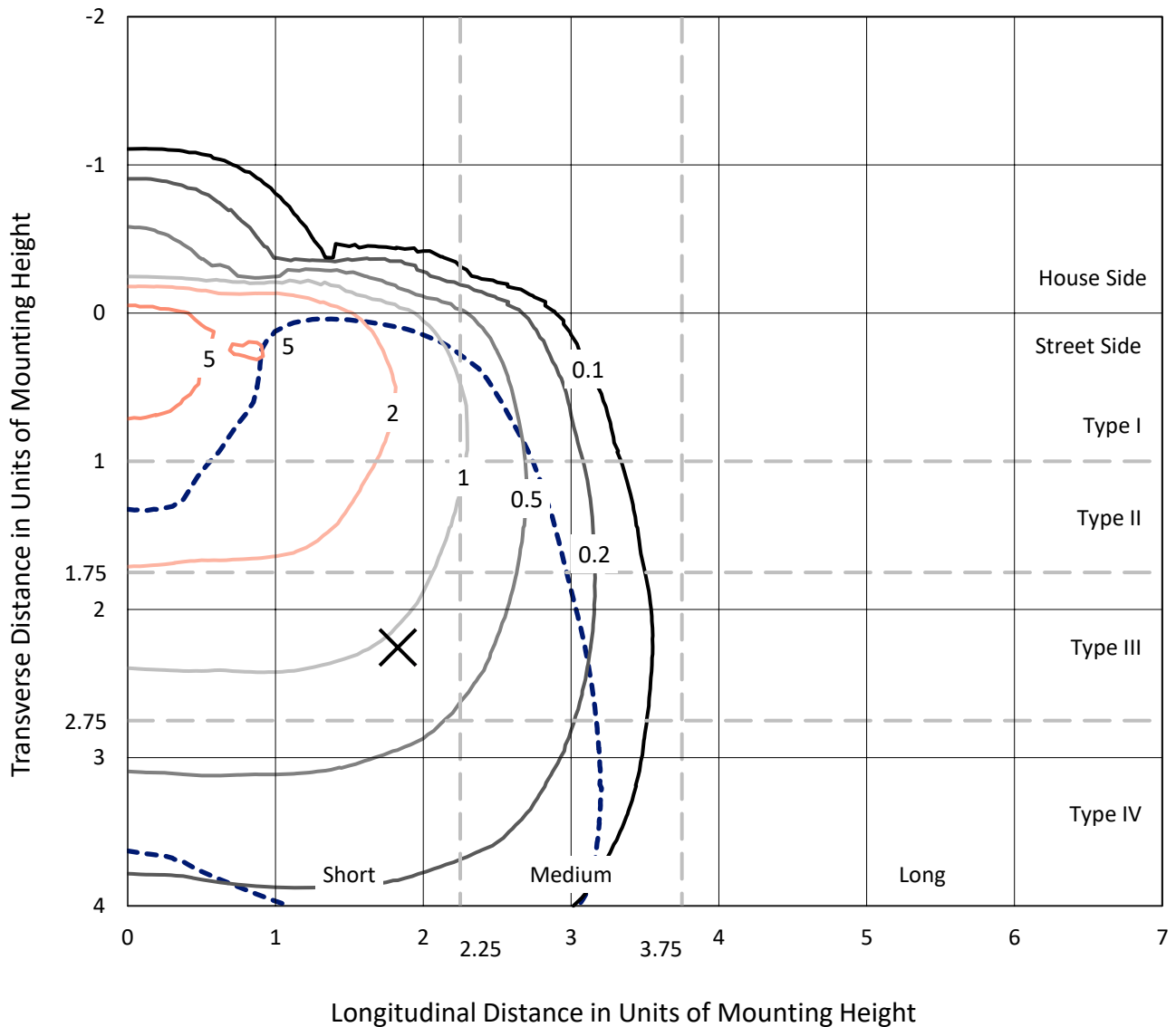
Lumens per Lamp: N/A
Luminaire Lumens: 33854.4 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 488.3
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

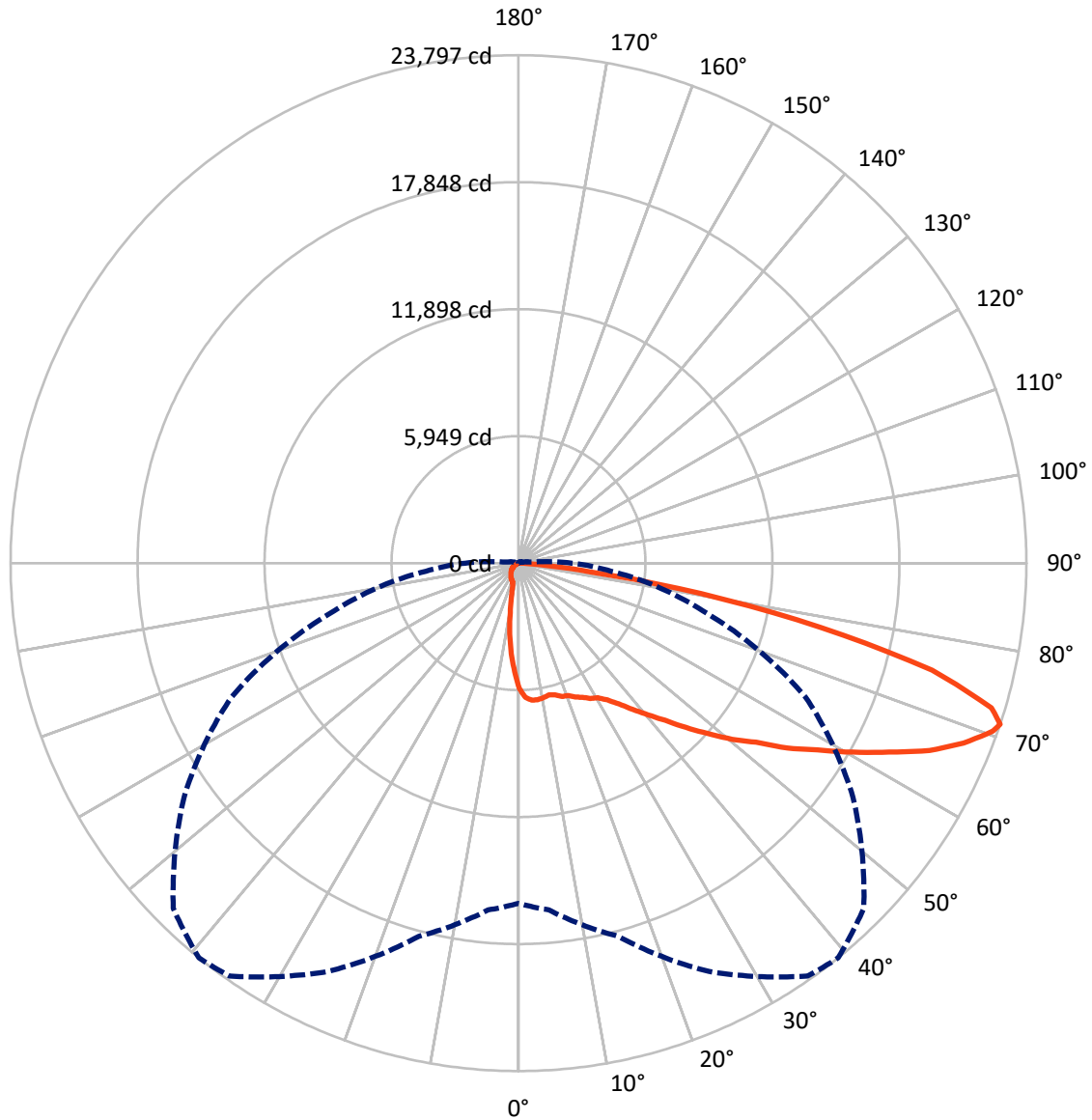
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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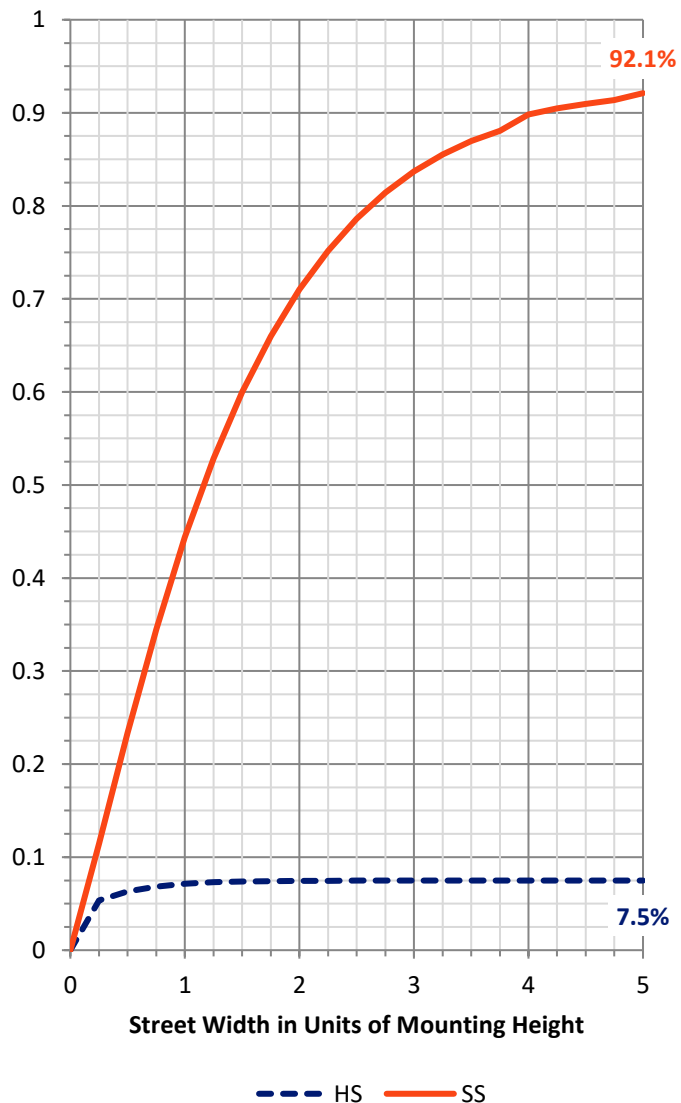
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2548.7	0.0	2548.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	31305.7	0.0	31305.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	33854.4	0.0	33854.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.7	1.5
10°-20°	1212.6	3.6
20°-30°	1946.6	5.8
30°-40°	2979.8	8.8
40°-50°	4783.1	14.1
50°-60°	7025.7	20.8
60°-70°	8848.6	26.1
70°-80°	5905.3	17.4
80°-90°	659.9	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°	33854.4	100.0
0°-180°	33854.4	100.0

Coefficient of Utilization



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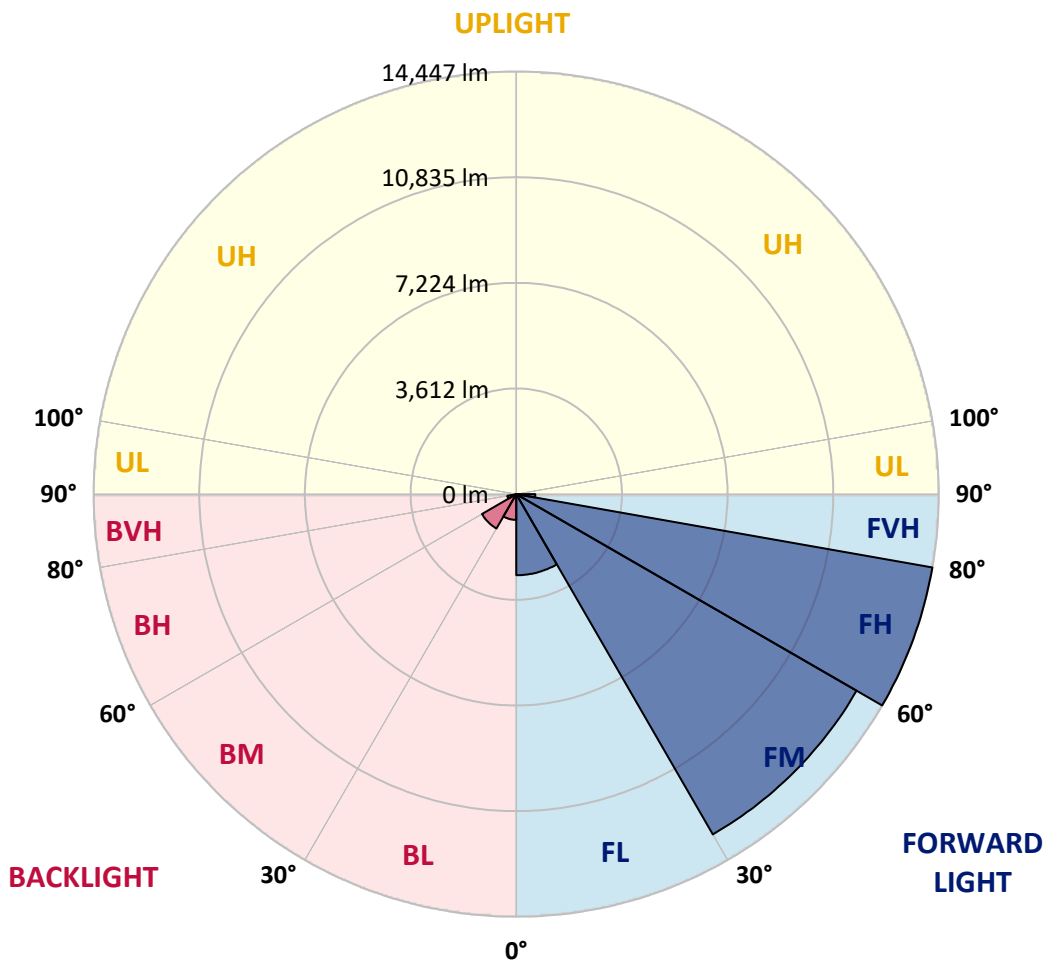
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2772.0	8.2			
FM (30°-60°)	13433.9	39.7			
FH (60°-80°)	14447.1	42.7			G5
FVH (80°-90°)	652.7	1.9			G4/750
BL (0°-30°)	879.9	2.6	B2/1000		
BM (30°-60°)	1354.7	4.0	B2/2500		
BH (60°-80°)	306.8	0.9	B1/500		G1/500
BVH (80°-90°)	7.3	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°	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6
2.5°	6349.9	6412.1	6349.9	6323.3	6296.7	6301.1	6230.0	6243.4	6159.0	6048.0	5959.2
5°	6549.8	6634.1	6567.5	6536.4	6532.0	6447.6	6412.1	6327.7	6225.6	6052.4	5945.9
7.5°	6532.0	6514.2	6545.3	6518.7	6461.0	6461.0	6421.0	6301.1	6199.0	6003.6	5821.5
10°	6398.8	6452.1	6425.4	6394.3	6407.7	6412.1	6336.6	6252.3	6221.2	6025.8	5728.3
12.5°	6385.5	6296.7	6394.3	6398.8	6341.1	6336.6	6327.7	6305.5	6207.8	6030.2	5750.5
15°	6341.1	6305.5	6403.2	6407.7	6421.0	6407.7	6421.0	6403.2	6305.5	6203.4	5848.2
17.5°	6376.6	6336.6	6474.3	6540.9	6509.8	6572.0	6549.8	6469.8	6385.5	6265.6	5941.4
20°	6385.5	6443.2	6594.2	6620.8	6718.5	6616.4	6611.9	6527.6	6474.3	6345.5	5999.1
22.5°	6549.8	6576.4	6762.9	6820.6	6825.1	6811.8	6700.7	6603.1	6580.9	6421.0	6012.5
25°	6798.4	6891.7	6976.1	7011.6	7024.9	6962.7	6847.3	6722.9	6669.7	6567.5	6150.1
27.5°	7238.0	7180.3	7255.8	7309.1	7158.1	7180.3	7033.8	6927.2	6851.7	6762.9	6310.0
30°	7628.8	7575.5	7580.0	7571.1	7442.3	7322.4	7282.5	7096.0	7002.7	7038.2	6558.6
32.5°	7979.6	7864.2	7961.9	7917.4	7677.7	7642.1	7611.1	7375.7	7393.5	7557.8	6931.7
35°	8303.8	8263.8	8343.7	8263.8	8103.9	8095.1	8064.0	7859.7	7957.4	8192.8	7571.1
37.5°	8601.3	8614.6	8712.3	8672.3	8685.7	8694.5	8676.8	8459.2	8738.9	9267.4	8317.1
40°	8876.6	8858.8	9098.6	9223.0	9249.6	9347.3	9347.3	9294.0	9724.7	10319.8	9351.7
42.5°	9169.7	9214.1	9524.9	9733.6	9986.7	10071.1	10186.6	10213.2	10879.3	11558.7	10408.6
45°	9649.2	9573.8	9969.0	10461.9	10683.9	10981.4	11159.0	11310.0	12113.7	13046.2	11465.4
47.5°	10257.6	10106.6	10453.0	11167.9	11683.0	11927.2	12247.0	12446.8	13232.7	14196.3	12464.5
50°	10932.6	10777.1	10945.9	11931.7	12531.1	12975.2	13383.7	13636.8	14587.1	15484.1	13192.8
52.5°	11696.3	11554.2	11580.9	12726.5	13610.2	13934.4	14471.7	14849.1	15794.9	16261.2	13450.3
55°	12508.9	12473.4	12389.1	13503.6	14556.0	15284.3	15608.4	16061.4	17033.8	16683.0	13730.1
57.5°	13326.0	13215.0	13334.9	14533.8	16074.7	16509.9	16958.3	17229.2	17722.1	17051.6	13623.5
60°	14094.2	14103.1	14271.8	15652.8	17366.9	17984.1	18388.2	18223.9	18428.2	17211.5	13379.3
62.5°	14742.5	14724.8	15151.1	16909.5	19076.5	19493.9	19795.8	19063.2	18756.8	17366.9	12953.0
65°	15324.2	15524.1	16194.6	18406.0	20683.9	21163.5	20981.5	19858.0	19076.5	16909.5	11754.1
67.5°	15763.8	16061.4	17224.8	19813.6	22158.2	22495.7	22242.6	20461.9	18699.0	15115.5	9573.8
70°	16021.4	16323.4	17961.9	20985.9	23334.9	23579.2	22984.1	19995.7	16496.5	10945.9	5972.5
71°	15941.5	16310.0	18104.0	21110.2	23614.7	23796.7	22873.1	19134.2	14835.8	9165.2	4356.2
72.5°	15217.7	15564.0	17513.4	21021.4	23277.2	23166.2	22007.2	17064.9	11678.6	5843.7	2251.3
75°	11181.2	11554.2	15031.2	18183.9	20777.2	20013.4	17810.9	11976.1	6092.4	1789.5	657.2
77.5°	5568.4	5630.6	9329.5	13201.7	15239.9	14480.5	11936.1	6678.5	2278.0	528.4	328.6
80°	2566.6	2584.4	3499.1	6838.4	9214.1	8672.3	6687.4	3294.9	1030.2	279.8	257.6
82.5°	1749.6	1776.2	2109.2	2833.1	4000.9	3374.8	2708.7	2109.2	590.6	168.7	253.1
85°	319.7	293.1	1181.2	1500.9	1545.3	1048.0	936.9	1825.1	222.0	97.7	222.0
87.5°	0.0	4.4	164.3	612.8	550.6	244.2	319.7	444.1	22.2	31.1	40.0
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°	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6	5892.6
2.5°	5883.7	5834.8	5670.5	5488.5	5324.2	5195.4	5031.1	4955.6	4835.7	4769.1	4764.7
5°	5799.3	5666.1	5381.9	5075.5	4733.6	4449.4	4134.1	3956.5	3752.2	3690.1	3676.8
7.5°	5657.2	5466.3	5048.9	4618.1	4094.2	3592.4	3206.1	2793.1	2540.0	2433.4	2393.4
10°	5568.4	5337.5	4769.1	4125.2	3392.6	2686.5	2144.8	1705.2	1474.3	1363.2	1336.6
12.5°	5568.4	5319.7	4542.7	3654.5	2682.1	1838.4	1327.7	1074.6	999.1	972.5	972.5
15°	5555.1	5284.2	4325.1	3170.5	1984.9	1234.5	990.2	936.9	928.1	923.6	919.2
17.5°	5621.7	5222.1	4103.0	2651.0	1403.2	972.5	910.3	901.4	892.5	892.5	883.7
20°	5670.5	5186.5	3836.6	2100.4	1048.0	901.4	874.8	861.5	857.0	852.6	861.5
22.5°	5630.6	5133.2	3508.0	1571.9	914.7	857.0	839.3	825.9	817.1	817.1	821.5
25°	5706.1	5084.4	3179.4	1185.6	857.0	817.1	799.3	790.4	786.0	781.5	772.7
27.5°	5808.2	5106.6	2788.6	954.7	808.2	777.1	759.3	750.4	746.0	737.1	746.0
30°	5932.5	5102.2	2357.9	834.8	763.8	732.7	714.9	710.5	701.6	697.2	701.6
32.5°	6145.7	5217.6	1913.9	772.7	714.9	688.3	670.5	666.1	661.6	657.2	652.8
35°	6603.1	5359.7	1496.5	723.8	670.5	639.4	626.1	617.2	612.8	608.4	603.9
37.5°	7167.0	5675.0	1141.2	679.4	626.1	595.0	581.7	577.3	559.5	555.1	550.6
40°	7873.0	6012.5	879.2	630.6	586.1	555.1	541.7	528.4	506.2	497.3	488.5
42.5°	8752.3	6341.1	723.8	586.1	541.7	519.5	497.3	475.1	457.4	439.6	430.7
45°	9631.5	6722.9	635.0	546.2	506.2	479.6	461.8	430.7	399.6	373.0	368.6
47.5°	10364.2	6860.6	581.7	501.8	470.7	448.5	421.8	381.9	337.5	310.8	306.4
50°	10910.4	6780.7	528.4	457.4	430.7	408.5	373.0	324.2	279.8	253.1	244.2
52.5°	11016.9	6429.9	479.6	421.8	390.8	364.1	324.2	270.9	222.0	195.4	190.9
55°	10941.4	5848.2	439.6	390.8	355.2	315.3	270.9	217.6	173.2	146.5	142.1
57.5°	10786.0	5159.9	395.2	350.8	310.8	270.9	222.0	177.6	128.8	102.1	102.1
60°	10257.6	4222.9	350.8	306.4	266.4	230.9	182.1	128.8	88.8	66.6	62.2
62.5°	9520.5	3246.0	306.4	262.0	230.9	190.9	142.1	93.3	53.3	35.5	35.5
65°	8175.0	2273.5	257.6	217.6	190.9	155.4	106.6	57.7	31.1	13.3	13.3
67.5°	6212.3	1407.6	213.1	182.1	164.3	124.3	75.5	35.5	13.3	4.4	0.0
70°	3565.7	732.7	168.7	146.5	128.8	93.3	53.3	17.8	8.9	0.0	0.0
71°	2491.1	541.7	151.0	128.8	115.5	84.4	44.4	13.3	4.4	0.0	0.0
72.5°	1247.8	359.7	128.8	106.6	93.3	66.6	35.5	13.3	4.4	0.0	0.0
75°	444.1	230.9	88.8	71.0	66.6	48.8	22.2	8.9	4.4	0.0	0.0
77.5°	306.4	186.5	62.2	44.4	44.4	31.1	13.3	4.4	4.4	0.0	0.0
80°	279.8	102.1	40.0	26.6	22.2	17.8	8.9	4.4	0.0	0.0	0.0
82.5°	279.8	75.5	22.2	17.8	13.3	8.9	4.4	0.0	0.0	0.0	0.0
85°	195.4	40.0	13.3	13.3	8.9	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	31.1	13.3	8.9	4.4	4.4	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)