

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: P484188

Luminaire Tested: **IFLD-L-SA7B-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484188
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

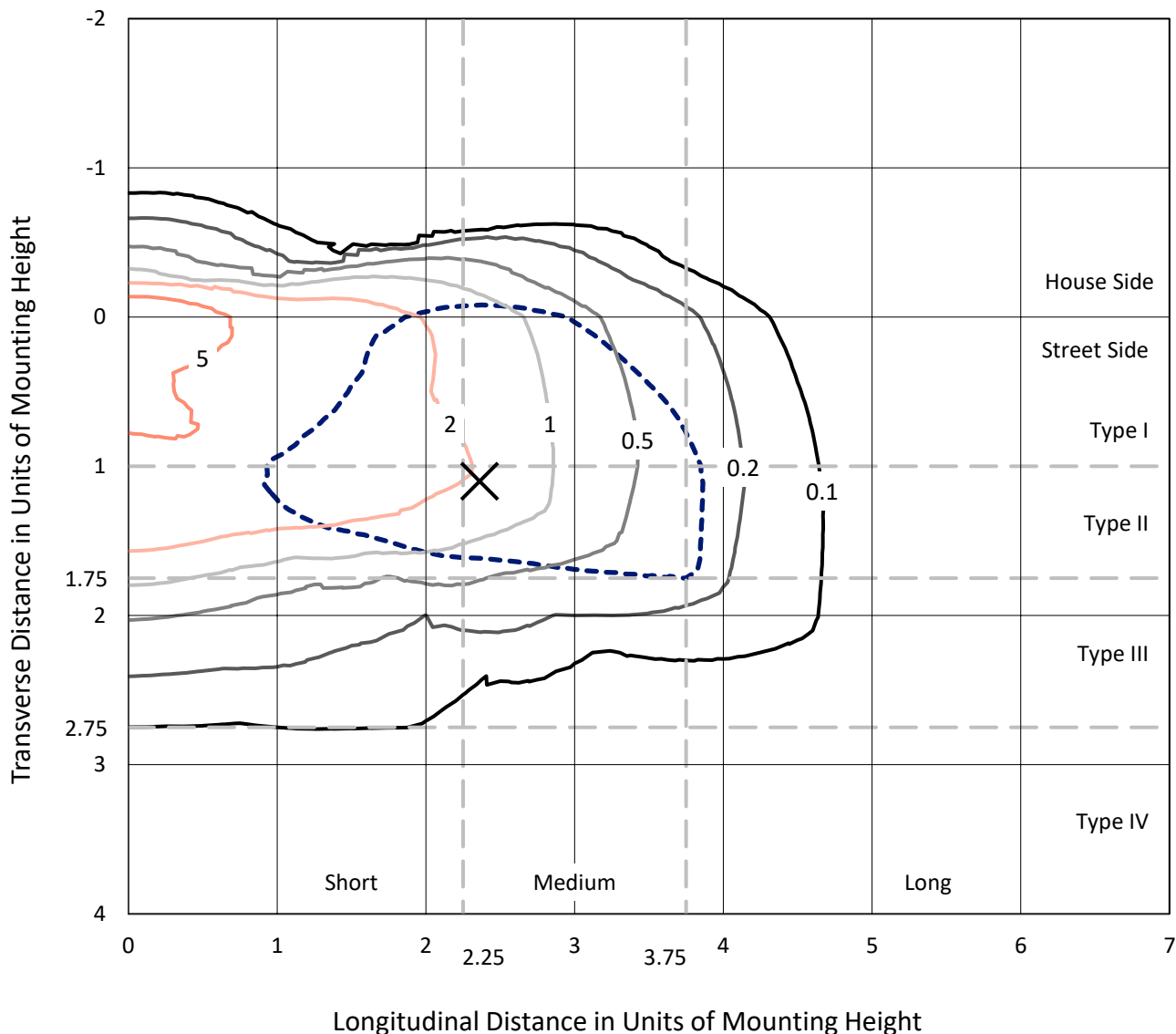
Lumens per Lamp: N/A
Luminaire Lumens: 23290.2 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

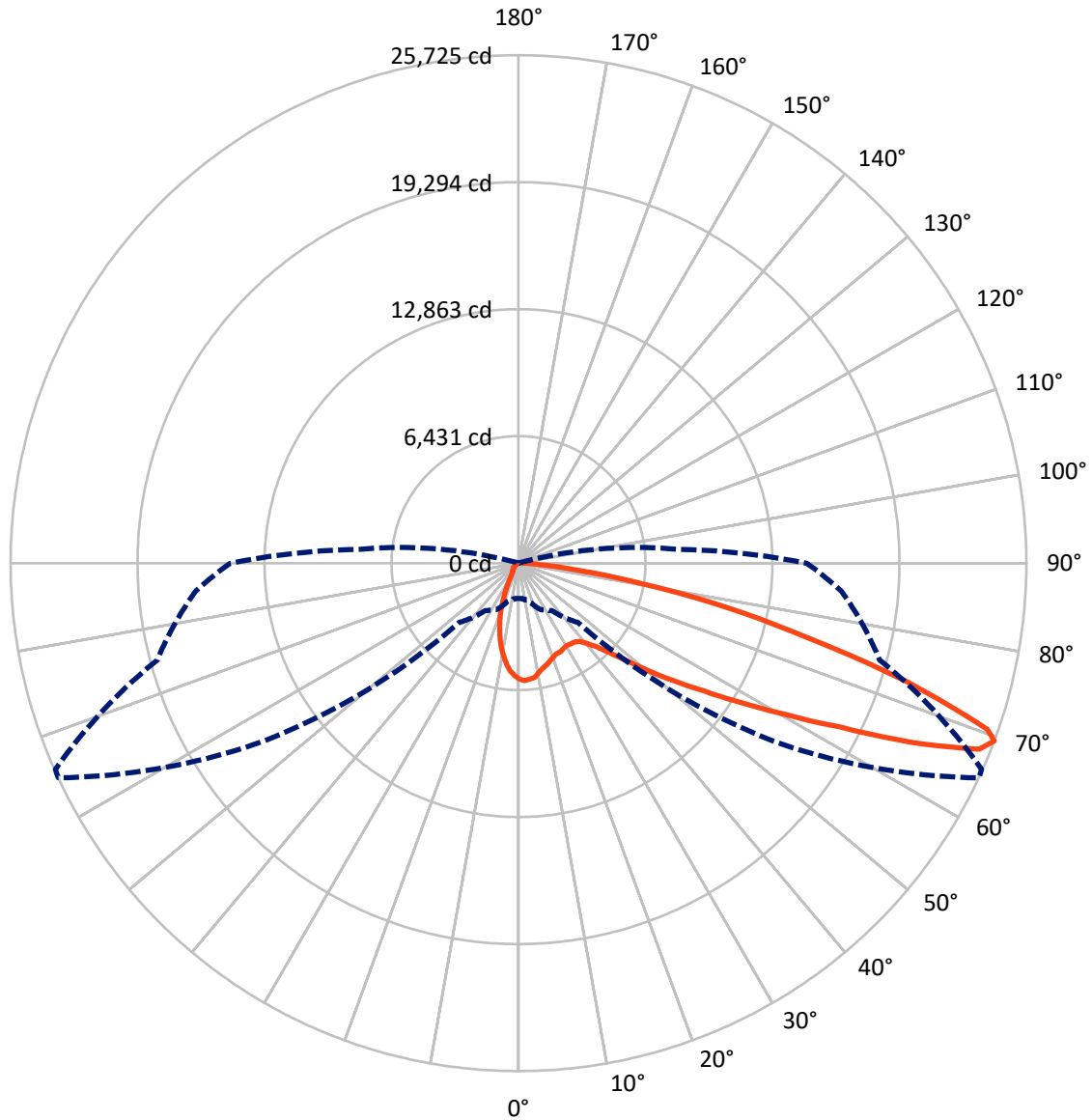
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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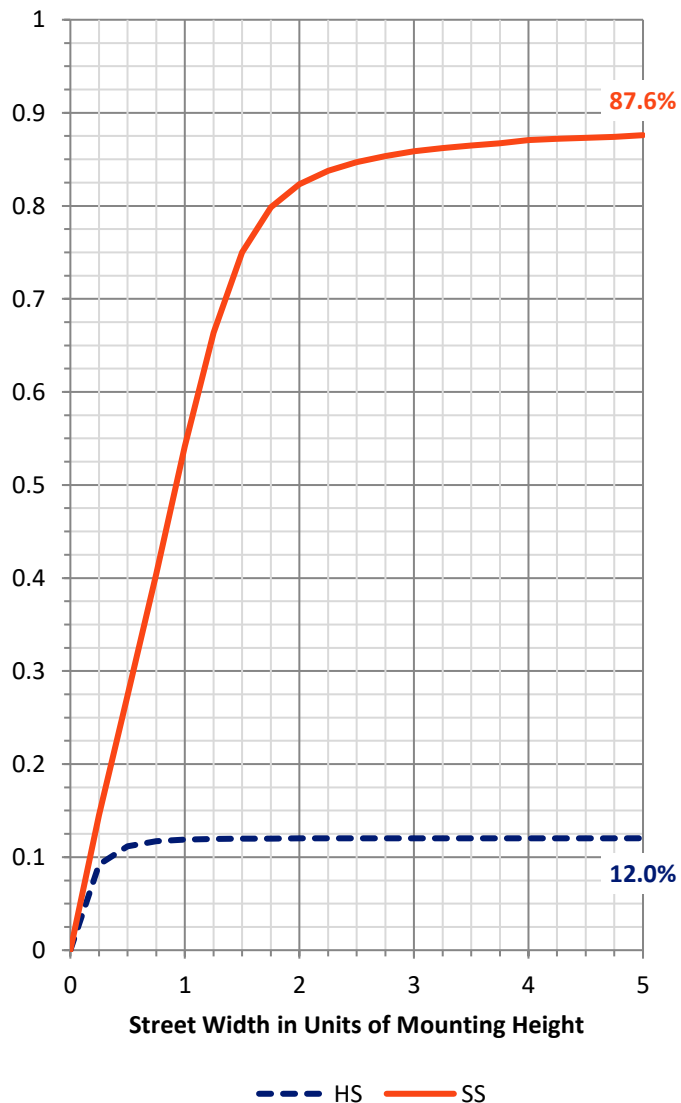
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2825.3	0.0	2825.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	20465.0	0.0	20465.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	23290.2	0.0	23290.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.5	2.1
10°-20°	1051.4	4.5
20°-30°	1463.7	6.3
30°-40°	2074.3	8.9
40°-50°	3269.0	14.0
50°-60°	5304.4	22.8
60°-70°	5924.0	25.4
70°-80°	3335.9	14.3
80°-90°	387.1	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°	23290.2	100.0
0°-180°	23290.2	100.0

Coefficient of Utilization



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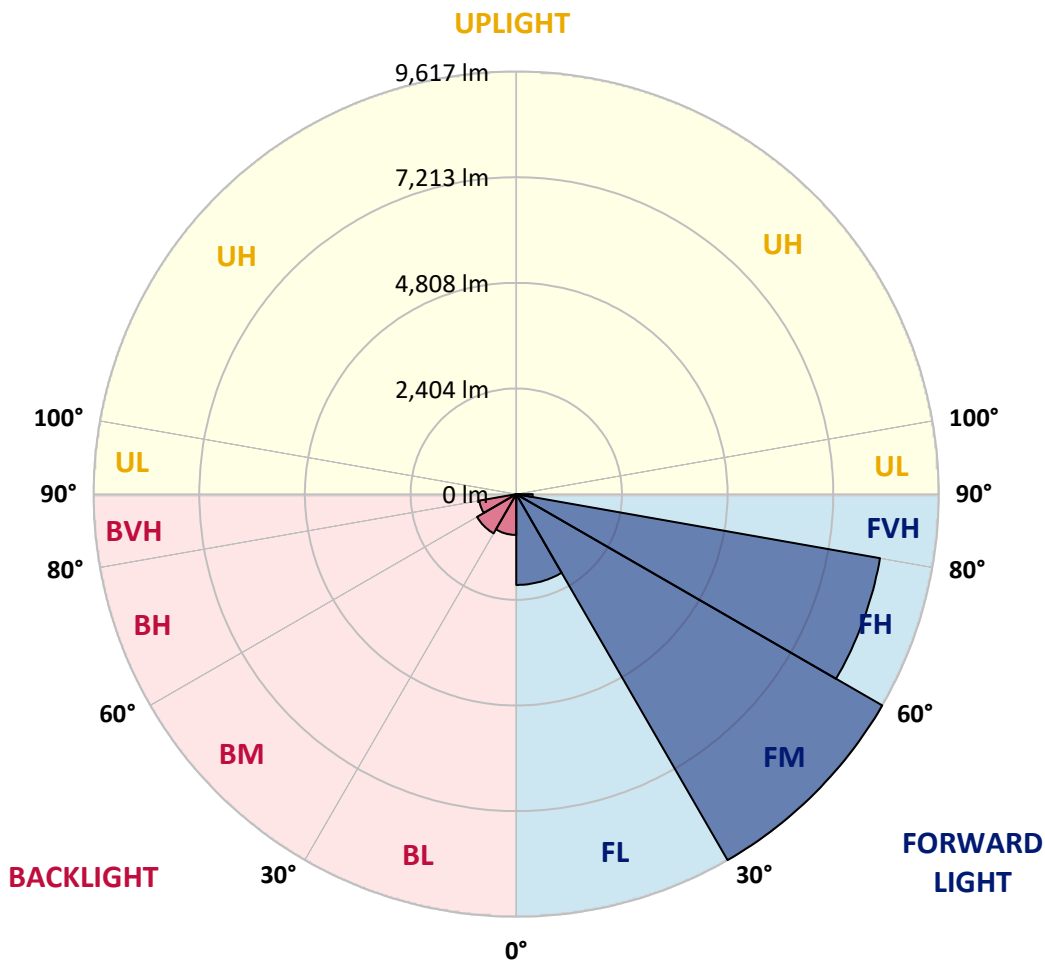
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.8	8.9			
FM (30°-60°)	9616.7	41.3			
FH (60°-80°)	8405.0	36.1			G4/12000
FVH (80°-90°)	376.4	1.6			G3/500
BL (0°-30°)	928.9	4.0	B2/1000		
BM (30°-60°)	1030.9	4.4	B2/2500		
BH (60°-80°)	854.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	10.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0
2.5°	5655.2	5699.2	5711.8	5755.8	5777.7	5872.0	5925.4	5956.8	5941.1	5975.7	5978.8
5°	5253.1	5227.9	5293.9	5341.0	5441.6	5605.0	5771.5	5900.3	5960.0	6016.5	6007.1
7.5°	4822.6	4810.1	4876.1	4982.9	5074.0	5271.9	5539.0	5856.3	5843.7	5982.0	6022.8
10°	4527.3	4539.9	4561.9	4668.7	4803.8	5004.9	5337.9	5633.2	5699.2	5991.4	6073.1
12.5°	4257.1	4279.1	4320.0	4429.9	4587.0	4794.4	5118.0	5463.6	5564.1	5938.0	6101.4
15°	4169.2	4118.9	4200.6	4282.3	4445.6	4631.0	4904.3	5334.8	5378.7	5875.1	6148.5
17.5°	4096.9	4065.5	4103.2	4169.2	4342.0	4492.8	4750.4	5196.5	5278.2	5850.0	6142.2
20°	4118.9	4090.6	4106.3	4156.6	4235.1	4376.5	4615.3	5064.6	5152.5	5733.8	6132.8
22.5°	4181.7	4203.7	4175.4	4188.0	4213.1	4285.4	4543.0	4970.3	5045.7	5711.8	6186.2
25°	4464.5	4426.8	4389.1	4373.4	4225.7	4257.1	4521.0	4964.0	5017.4	5633.2	6142.2
27.5°	4759.8	4728.4	4712.7	4621.6	4420.5	4326.2	4524.2	4876.1	4948.3	5601.8	6088.8
30°	5118.0	5158.8	5096.0	4986.0	4706.4	4473.9	4558.7	4832.1	4932.6	5482.4	6054.2
32.5°	5495.0	5517.0	5548.4	5466.7	5105.4	4697.0	4662.4	4872.9	4879.2	5482.4	5975.7
35°	5922.3	5890.9	5972.5	5978.8	5661.5	5092.8	4860.3	4901.2	4967.2	5457.3	5947.4
37.5°	6289.9	6343.3	6437.5	6588.3	6261.6	5652.1	5168.2	5033.1	5061.4	5573.5	5969.4
40°	6692.0	6745.4	6959.1	7109.9	6924.5	6280.4	5636.4	5341.0	5363.0	5746.3	6082.5
42.5°	7135.0	7238.7	7493.2	7757.1	7706.8	7078.4	6239.6	5793.5	5784.0	6176.8	6315.0
45°	7735.1	7873.3	8149.8	8454.6	8498.5	7992.7	7043.9	6468.9	6500.4	6739.1	6795.7
47.5°	8570.8	8564.5	8834.7	9174.0	9428.5	8941.5	8005.3	7376.9	7373.8	7628.3	7508.9
50°	9378.2	9381.4	9453.6	9846.4	10506.1	10257.9	9196.0	8583.4	8548.8	8674.5	8482.8
52.5°	9752.1	9708.1	9654.7	10129.1	11335.6	11916.8	10704.1	9950.0	9921.8	9846.4	9796.1
55°	9359.4	9375.1	9372.0	9865.2	11772.3	13666.8	12639.4	11455.0	11407.8	11172.2	11241.3
57.5°	8099.5	8049.3	8159.2	8929.0	11272.7	14860.7	15407.3	13352.6	13230.1	12447.8	12290.7
60°	6029.1	6044.8	6135.9	7043.9	10031.7	15112.0	18055.9	15580.1	15052.3	13346.3	13129.5
62.5°	4210.0	4178.6	4213.1	4722.1	7172.7	14106.6	19846.7	18288.4	17779.4	14367.4	14241.7
65°	3013.0	2972.1	3110.4	3421.4	4307.4	10785.8	20101.2	21895.1	21439.6	15998.0	15696.4
67.5°	2167.8	2161.6	2321.8	2887.3	3060.1	6211.3	18216.1	25162.6	24886.1	17933.3	16582.4
69°	1794.0	1797.1	1951.1	2585.7	2921.9	4241.4	15674.4	25725.0	25674.7	18932.4	16415.8
70°	1564.6	1577.2	1756.3	2406.6	2865.3	3487.4	13512.8	25172.0	25121.7	19127.2	15866.0
72.5°	964.5	974.0	1209.6	1929.1	2723.9	2846.5	8080.7	20594.4	20767.2	18234.9	13669.9
75°	461.8	465.0	634.6	1395.0	2626.5	2698.8	4329.4	15196.8	15561.3	14722.4	10682.1
77.5°	245.1	245.1	304.8	741.5	2127.0	2538.6	2570.0	10719.8	11021.4	9309.1	6073.1
80°	122.5	125.7	185.4	386.4	1319.6	2488.3	2007.6	6393.5	6556.9	3798.4	1891.4
82.5°	47.1	50.3	88.0	232.5	684.9	2101.9	1762.5	3144.9	3104.1	889.1	461.8
85°	6.3	6.3	31.4	138.2	292.2	926.8	1454.6	1313.3	1269.3	194.8	223.1
87.5°	0.0	0.0	6.3	40.8	88.0	270.2	562.4	361.3	402.1	53.4	110.0
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°	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0	5872.0
2.5°	5963.1	5897.1	5796.6	5699.2	5595.5	5469.9	5331.6	5281.3	5193.4	5187.1	5237.4
5°	5956.8	5850.0	5674.1	5466.7	5171.4	4948.3	4706.4	4530.5	4395.4	4307.4	4329.4
7.5°	5988.2	5859.4	5554.7	5108.5	4728.4	4285.4	3911.5	3653.9	3418.3	3302.0	3289.5
10°	5938.0	5765.2	5319.0	4693.8	4134.6	3515.7	2969.0	2623.4	2271.5	2142.7	2149.0
12.5°	5966.3	5724.3	5064.6	4266.5	3496.8	2692.5	2039.0	1567.8	1237.9	1131.0	1118.5
15°	5985.1	5636.4	4819.5	3754.4	2789.9	1834.8	1181.3	889.1	785.4	766.6	763.5
17.5°	5912.8	5529.5	4473.9	3248.6	2067.3	1115.3	785.4	725.8	706.9	694.3	688.1
20°	5909.7	5466.7	4175.4	2730.2	1379.2	760.3	678.6	656.6	628.4	618.9	618.9
22.5°	5856.3	5334.8	3817.3	2161.6	879.7	653.5	609.5	574.9	543.5	531.0	527.8
25°	5840.6	5180.8	3481.1	1624.3	669.2	584.4	540.4	490.1	452.4	433.6	424.1
27.5°	5796.6	5048.9	3141.8	1143.6	584.4	521.5	465.0	411.6	367.6	339.3	336.2
30°	5639.5	4910.6	2764.8	791.7	531.0	461.8	399.0	336.2	292.2	273.3	267.1
32.5°	5573.5	4781.8	2353.2	609.5	483.8	408.4	336.2	279.6	245.1	226.2	223.1
35°	5495.0	4593.3	1954.2	531.0	439.9	355.0	282.8	235.6	207.4	191.6	191.6
37.5°	5504.4	4442.5	1580.3	480.7	392.7	304.8	241.9	201.1	175.9	160.2	160.2
40°	5476.1	4323.1	1228.4	436.7	348.7	260.8	204.2	169.7	147.7	132.0	128.8
42.5°	5605.0	4291.7	926.8	399.0	304.8	223.1	175.9	144.5	122.5	103.7	103.7
45°	5821.7	4342.0	722.6	364.4	260.8	191.6	150.8	119.4	97.4	84.8	81.7
47.5°	6399.8	4539.9	565.5	336.2	223.1	166.5	125.7	97.4	78.5	66.0	62.8
50°	7238.7	4982.9	480.7	295.3	188.5	141.4	103.7	75.4	62.8	50.3	47.1
52.5°	8432.6	5727.5	436.7	260.8	157.1	116.2	81.7	59.7	47.1	37.7	34.6
55°	9733.3	6657.4	395.9	219.9	132.0	94.3	66.0	47.1	34.6	25.1	22.0
57.5°	10748.1	7461.7	361.3	182.2	106.8	75.4	50.3	34.6	25.1	15.7	12.6
60°	11857.1	8027.3	317.3	144.5	88.0	56.6	37.7	25.1	18.9	9.4	9.4
62.5°	13000.7	8690.2	260.8	113.1	69.1	44.0	28.3	18.9	12.6	3.1	3.1
65°	14590.5	9208.6	201.1	88.0	53.4	31.4	22.0	15.7	6.3	0.0	0.0
67.5°	15039.7	8954.1	147.7	69.1	37.7	22.0	15.7	9.4	3.1	0.0	0.0
69°	14590.5	8065.0	128.8	59.7	31.4	18.9	12.6	6.3	3.1	0.0	0.0
70°	13770.5	7373.8	113.1	50.3	28.3	18.9	9.4	6.3	3.1	0.0	0.0
72.5°	11517.8	5655.2	88.0	37.7	22.0	15.7	9.4	6.3	0.0	0.0	0.0
75°	8448.3	3493.7	66.0	28.3	18.9	12.6	9.4	6.3	0.0	0.0	0.0
77.5°	4527.3	1275.6	47.1	18.9	12.6	9.4	9.4	6.3	0.0	0.0	0.0
80°	1241.0	377.0	34.6	12.6	9.4	6.3	6.3	3.1	0.0	0.0	0.0
82.5°	339.3	97.4	22.0	12.6	9.4	6.3	3.1	0.0	0.0	0.0	0.0
85°	182.2	37.7	12.6	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	94.3	12.6	9.4	6.3	6.3	3.1	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)