

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: P484959

Luminaire Tested: **IFLD-S-SA6C-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484959
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

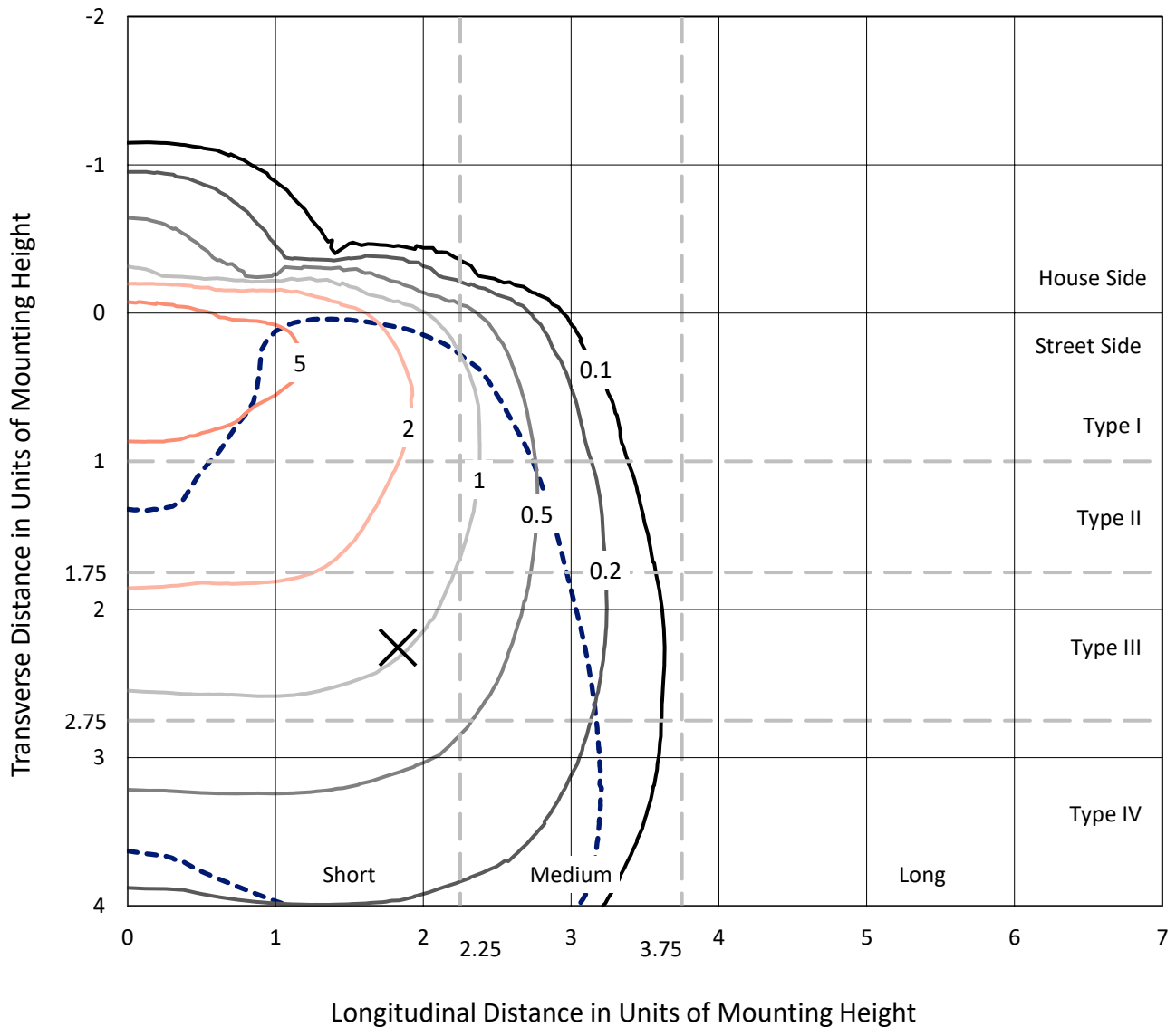
Lumens per Lamp: N/A
Luminaire Lumens: 27276 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5
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

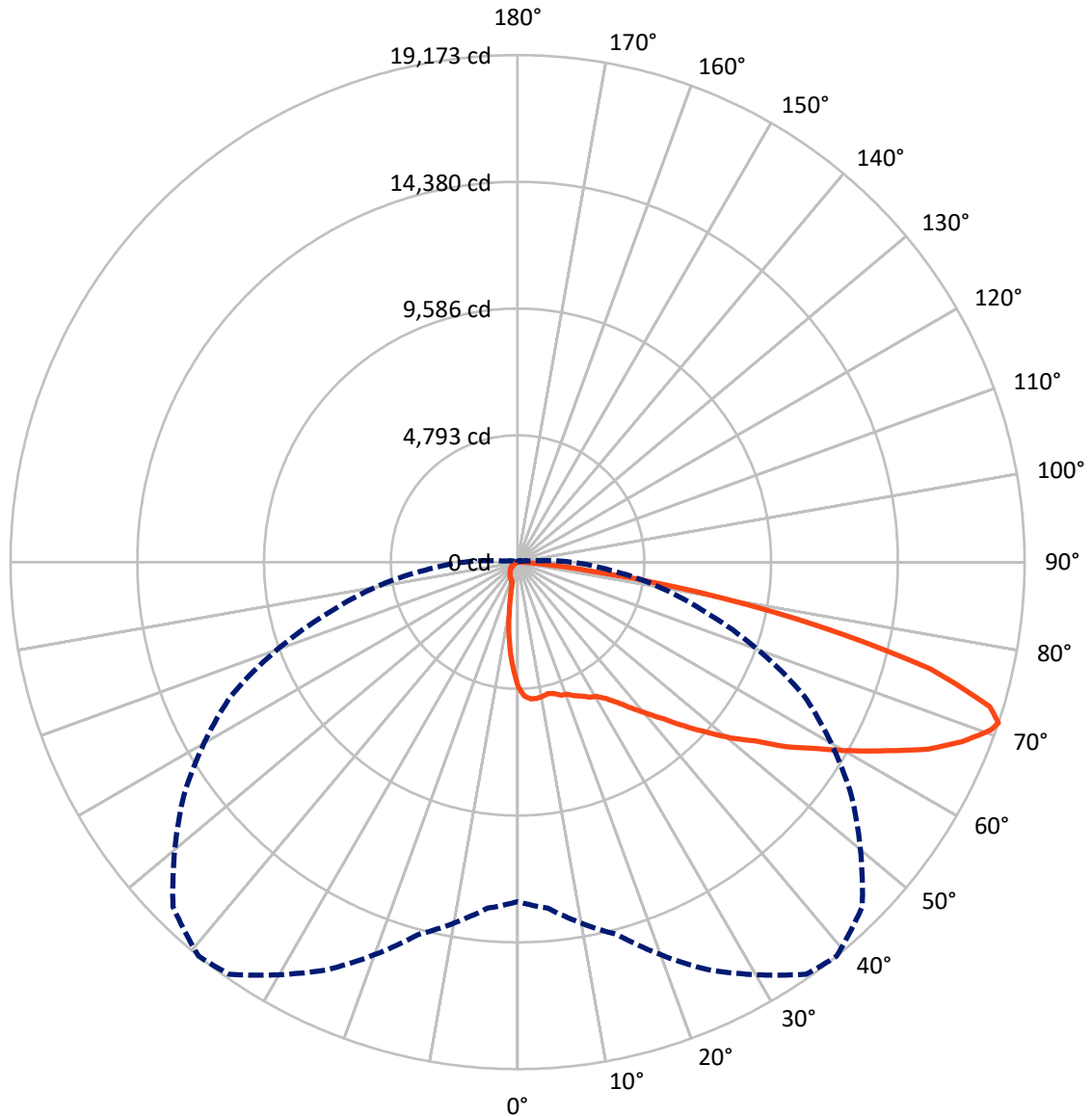
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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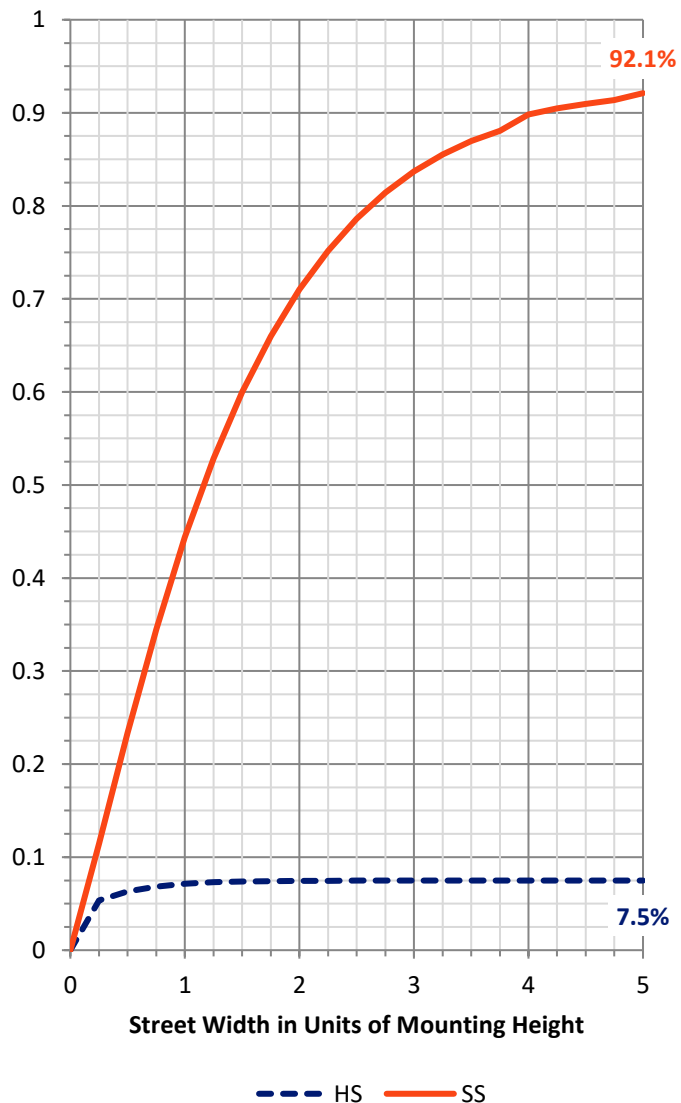
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2053.5	0.0	2053.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	25222.5	0.0	25222.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	27276.0	0.0	27276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.9	1.5
10°-20°	977.0	3.6
20°-30°	1568.4	5.8
30°-40°	2400.8	8.8
40°-50°	3853.7	14.1
50°-60°	5660.5	20.8
60°-70°	7129.2	26.1
70°-80°	4757.8	17.4
80°-90°	531.7	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°	27276.0	100.0
0°-180°	27276.0	100.0

Coefficient of Utilization



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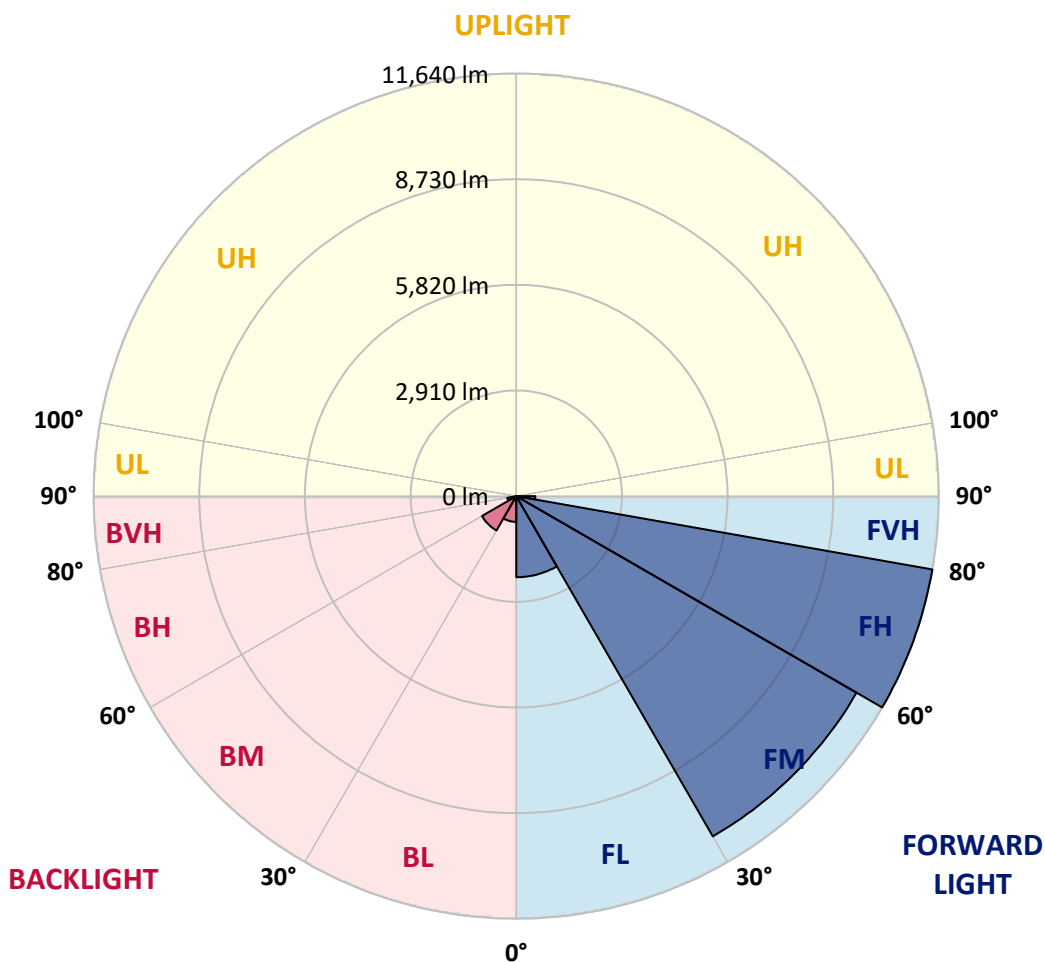
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2233.3	8.2			
FM (30°-60°)	10823.5	39.7			
FH (60°-80°)	11639.8	42.7			G4/12000
FVH (80°-90°)	525.9	1.9			G4/750
BL (0°-30°)	709.0	2.6	B2/1000		
BM (30°-60°)	1091.5	4.0	B2/2500		
BH (60°-80°)	247.2	0.9	B1/500		G1/500
BVH (80°-90°)	5.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6
2.5°	5116.1	5166.1	5116.1	5094.6	5073.1	5076.7	5019.5	5030.2	4962.2	4872.8	4801.2
5°	5277.1	5345.0	5291.4	5266.3	5262.7	5194.8	5166.1	5098.2	5015.9	4876.4	4790.5
7.5°	5262.7	5248.4	5273.5	5252.0	5205.5	5205.5	5173.3	5076.7	4994.4	4837.0	4690.3
10°	5155.4	5198.3	5176.9	5151.8	5162.6	5166.1	5105.3	5037.3	5012.3	4854.9	4615.2
12.5°	5144.7	5073.1	5151.8	5155.4	5108.9	5105.3	5098.2	5080.3	5001.6	4858.5	4633.1
15°	5108.9	5080.3	5159.0	5162.6	5173.3	5162.6	5173.3	5159.0	5080.3	4998.0	4711.8
17.5°	5137.5	5105.3	5216.2	5269.9	5244.9	5294.9	5277.1	5212.7	5144.7	5048.1	4786.9
20°	5144.7	5191.2	5312.8	5334.3	5413.0	5330.7	5327.1	5259.2	5216.2	5112.5	4833.4
22.5°	5277.1	5298.5	5448.8	5495.3	5498.9	5488.1	5398.7	5320.0	5302.1	5173.3	4844.2
25°	5477.4	5552.5	5620.5	5649.1	5659.9	5609.8	5516.8	5416.6	5373.6	5291.4	4955.1
27.5°	5831.6	5785.1	5845.9	5888.8	5767.2	5785.1	5667.0	5581.2	5520.3	5448.8	5083.9
30°	6146.4	6103.5	6107.1	6099.9	5996.2	5899.6	5867.4	5717.1	5642.0	5670.6	5284.2
32.5°	6429.1	6336.0	6414.7	6379.0	6185.8	6157.2	6132.1	5942.5	5956.8	6089.2	5584.7
35°	6690.2	6658.0	6722.4	6658.0	6529.2	6522.1	6497.0	6332.5	6411.2	6600.8	6099.9
37.5°	6929.9	6940.7	7019.4	6987.2	6997.9	7005.1	6990.8	6815.4	7040.8	7466.6	6701.0
40°	7151.7	7137.4	7330.6	7430.8	7452.3	7531.0	7531.0	7488.0	7835.1	8314.5	7534.6
42.5°	7387.9	7423.7	7674.1	7842.2	8046.2	8114.1	8207.2	8228.6	8765.3	9312.7	8386.0
45°	7774.3	7713.4	8031.9	8429.0	8607.9	8847.6	8990.7	9112.3	9759.9	10511.2	9237.5
47.5°	8264.4	8142.8	8421.8	8997.8	9412.8	9609.6	9867.2	10028.2	10661.4	11437.8	10042.5
50°	8808.2	8683.0	8818.9	9613.2	10096.2	10453.9	10783.1	10987.0	11752.6	12475.3	10629.2
52.5°	9423.6	9309.1	9330.5	10253.6	10965.5	11226.7	11659.6	11963.7	12725.7	13101.4	10836.7
55°	10078.3	10049.7	9981.7	10879.7	11727.6	12314.3	12575.5	12940.4	13723.9	13441.3	11062.1
57.5°	10736.6	10647.1	10743.7	11709.7	12951.1	13301.8	13663.1	13881.3	14278.5	13738.2	10976.3
60°	11355.5	11362.7	11498.6	12611.3	13992.2	14489.5	14815.1	14682.7	14847.3	13867.0	10779.5
62.5°	11877.8	11863.5	12207.0	13623.7	15369.6	15705.9	15949.2	15358.9	15112.0	13992.2	10436.0
65°	12346.5	12507.5	13047.7	14829.4	16664.8	17051.1	16904.5	15999.3	15369.6	13623.7	9470.1
67.5°	12700.7	12940.4	13877.8	15963.5	17852.5	18124.4	17920.5	16485.9	15065.5	12178.4	7713.4
70°	12908.2	13151.5	14471.6	16908.0	18800.6	18997.4	18518.0	16110.2	13291.0	8818.9	4812.0
71°	12843.8	13140.8	14586.1	17008.2	19026.0	19172.7	18428.5	15416.2	11953.0	7384.3	3509.7
72.5°	12260.7	12539.7	14110.3	16936.7	18754.1	18664.7	17730.9	13749.0	9409.3	4708.2	1813.9
75°	9008.6	9309.1	12110.4	14650.5	16739.9	16124.5	14350.0	9649.0	4908.6	1441.8	529.5
77.5°	4486.4	4536.5	7516.7	10636.4	12278.5	11666.8	9616.8	5380.8	1835.3	425.7	264.7
80°	2067.9	2082.2	2819.2	5509.6	7423.7	6987.2	5388.0	2654.6	830.0	225.4	207.5
82.5°	1409.6	1431.1	1699.4	2282.5	3223.5	2719.0	2182.4	1699.4	475.8	136.0	203.9
85°	257.6	236.1	951.7	1209.3	1245.0	844.3	754.9	1470.4	178.9	78.7	178.9
87.5°	0.0	3.6	132.4	493.7	443.6	196.8	257.6	357.8	17.9	25.0	32.2
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°	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6	4747.6
2.5°	4740.4	4701.0	4568.7	4422.0	4289.6	4185.9	4053.5	3992.7	3896.1	3842.4	3838.8
5°	4672.4	4565.1	4336.1	4089.3	3813.8	3584.8	3330.8	3187.7	3023.1	2973.0	2962.3
7.5°	4557.9	4404.1	4067.8	3720.8	3298.6	2894.3	2583.1	2250.4	2046.4	1960.6	1928.4
10°	4486.4	4300.4	3842.4	3323.6	2733.3	2164.5	1728.0	1373.8	1187.8	1098.3	1076.9
12.5°	4486.4	4286.0	3659.9	2944.4	2160.9	1481.2	1069.7	865.8	805.0	783.5	783.5
15°	4475.7	4257.4	3484.6	2554.5	1599.2	994.6	797.8	754.9	747.7	744.2	740.6
17.5°	4529.3	4207.3	3305.8	2135.9	1130.5	783.5	733.4	726.3	719.1	719.1	712.0
20°	4568.7	4178.7	3091.1	1692.2	844.3	726.3	704.8	694.1	690.5	686.9	694.1
22.5°	4536.5	4135.8	2826.4	1266.5	737.0	690.5	676.2	665.4	658.3	658.3	661.9
25°	4597.3	4096.4	2561.6	955.2	690.5	658.3	644.0	636.8	633.2	629.7	622.5
27.5°	4679.6	4114.3	2246.8	769.2	651.1	626.1	611.8	604.6	601.0	593.9	601.0
30°	4779.8	4110.7	1899.7	672.6	615.4	590.3	576.0	572.4	565.3	561.7	565.3
32.5°	4951.5	4203.8	1542.0	622.5	576.0	554.5	540.2	536.6	533.1	529.5	525.9
35°	5320.0	4318.2	1205.7	583.2	540.2	515.2	504.5	497.3	493.7	490.1	486.6
37.5°	5774.3	4572.3	919.5	547.4	504.5	479.4	468.7	465.1	450.8	447.2	443.6
40°	6343.2	4844.2	708.4	508.0	472.3	447.2	436.5	425.7	407.9	400.7	393.5
42.5°	7051.6	5108.9	583.2	472.3	436.5	418.6	400.7	382.8	368.5	354.2	347.0
45°	7760.0	5416.6	511.6	440.1	407.9	386.4	372.1	347.0	322.0	300.5	296.9
47.5°	8350.3	5527.5	468.7	404.3	379.2	361.3	339.9	307.7	271.9	250.4	246.9
50°	8790.3	5463.1	425.7	368.5	347.0	329.1	300.5	261.2	225.4	203.9	196.8
52.5°	8876.2	5180.5	386.4	339.9	314.8	293.4	261.2	218.2	178.9	157.4	153.8
55°	8815.4	4711.8	354.2	314.8	286.2	254.0	218.2	175.3	139.5	118.1	114.5
57.5°	8690.1	4157.2	318.4	282.6	250.4	218.2	178.9	143.1	103.8	82.3	82.3
60°	8264.4	3402.4	282.6	246.9	214.7	186.0	146.7	103.8	71.6	53.7	50.1
62.5°	7670.5	2615.3	246.9	211.1	186.0	153.8	114.5	75.1	42.9	28.6	28.6
65°	6586.5	1831.8	207.5	175.3	153.8	125.2	85.9	46.5	25.0	10.7	10.7
67.5°	5005.2	1134.1	171.7	146.7	132.4	100.2	60.8	28.6	10.7	3.6	0.0
70°	2872.9	590.3	136.0	118.1	103.8	75.1	42.9	14.3	7.2	0.0	0.0
71°	2007.1	436.5	121.6	103.8	93.0	68.0	35.8	10.7	3.6	0.0	0.0
72.5°	1005.3	289.8	103.8	85.9	75.1	53.7	28.6	10.7	3.6	0.0	0.0
75°	357.8	186.0	71.6	57.2	53.7	39.4	17.9	7.2	3.6	0.0	0.0
77.5°	246.9	150.3	50.1	35.8	35.8	25.0	10.7	3.6	3.6	0.0	0.0
80°	225.4	82.3	32.2	21.5	17.9	14.3	7.2	3.6	0.0	0.0	0.0
82.5°	225.4	60.8	17.9	14.3	10.7	7.2	3.6	0.0	0.0	0.0	0.0
85°	157.4	32.2	10.7	10.7	7.2	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	25.0	10.7	7.2	3.6	3.6	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)