

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: P484724

Luminaire Tested: **IFLD-S-SA6B-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484724
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

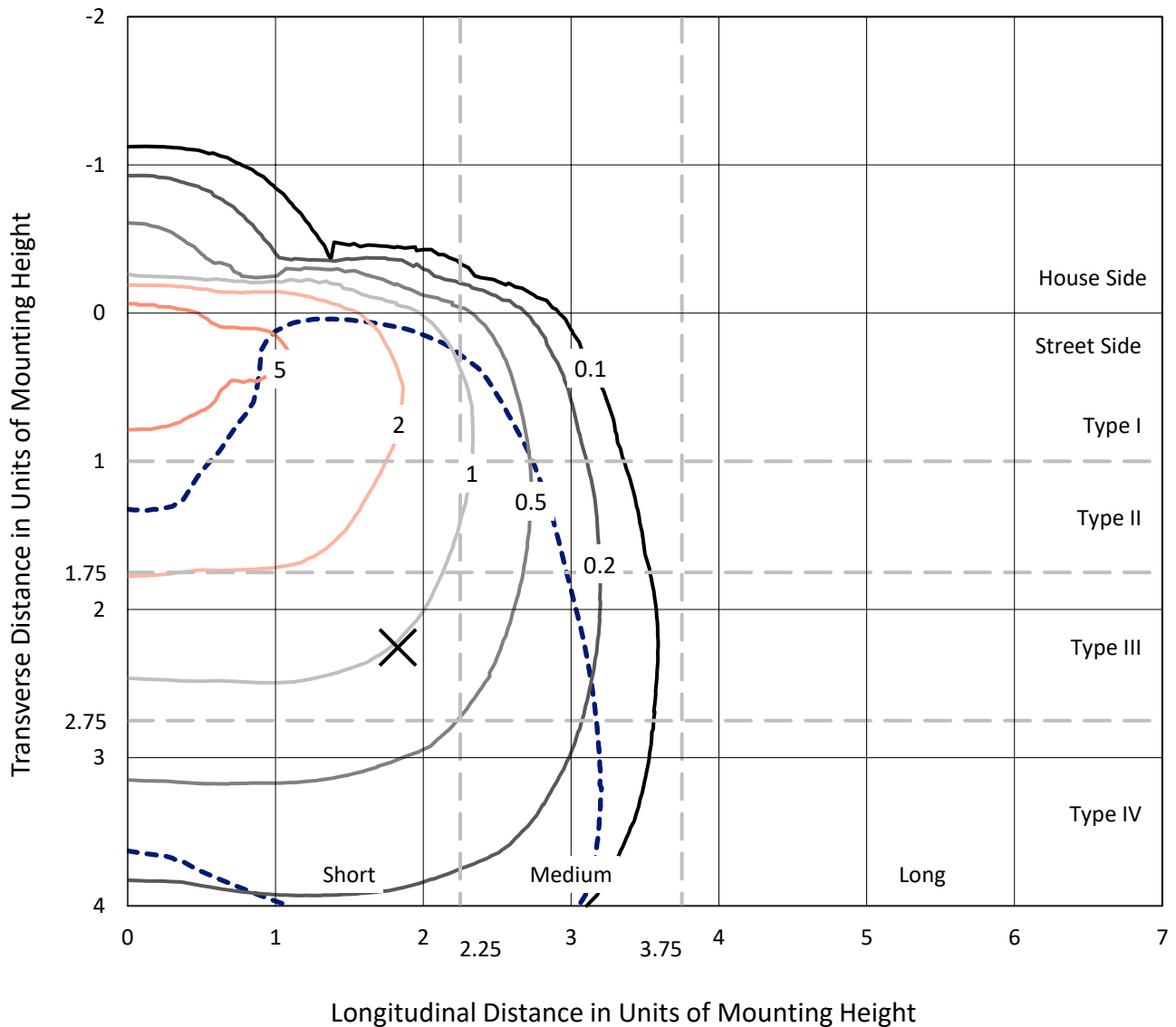
Lumens per Lamp: N/A
Luminaire Lumens: 25110.3 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

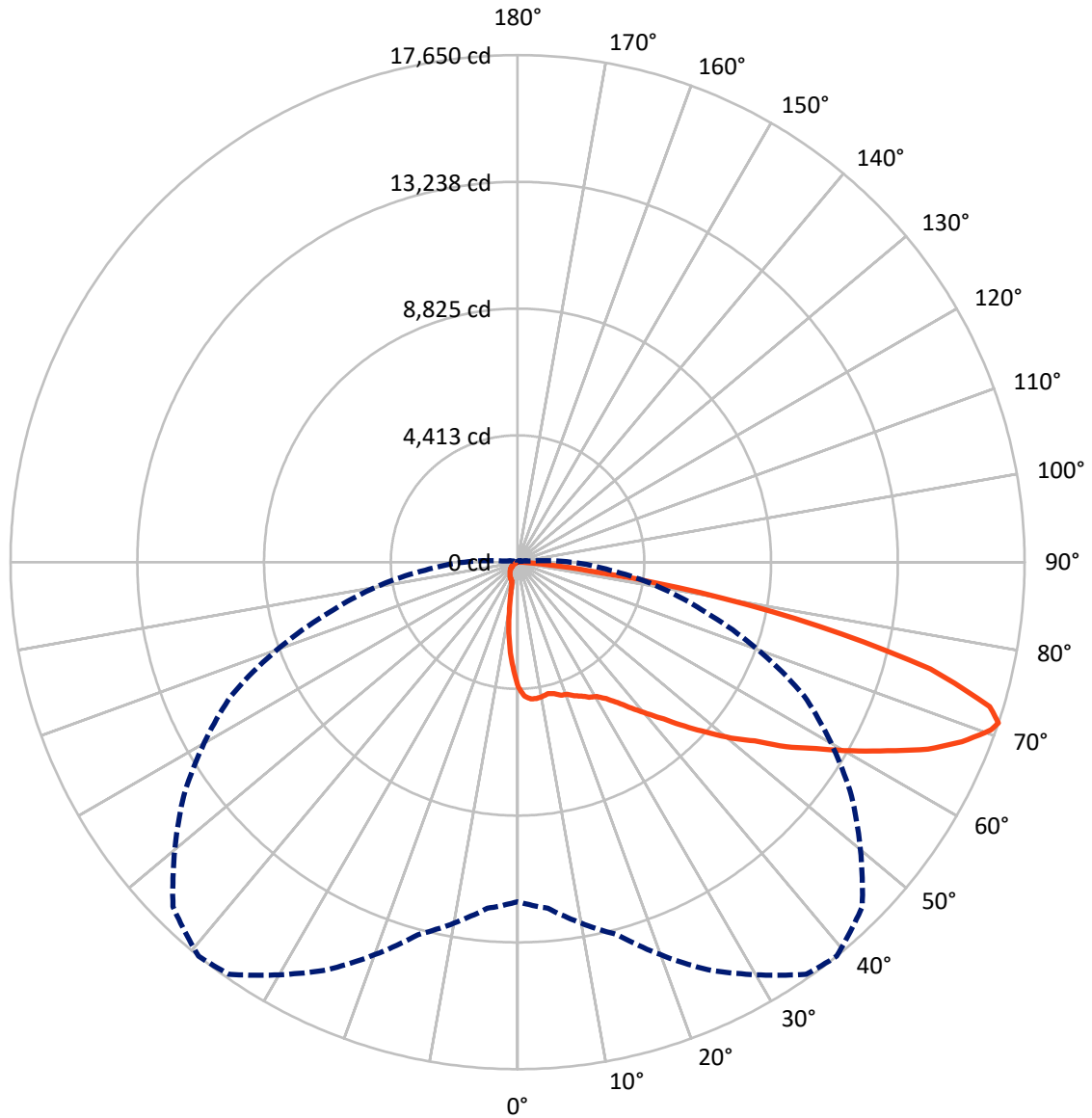
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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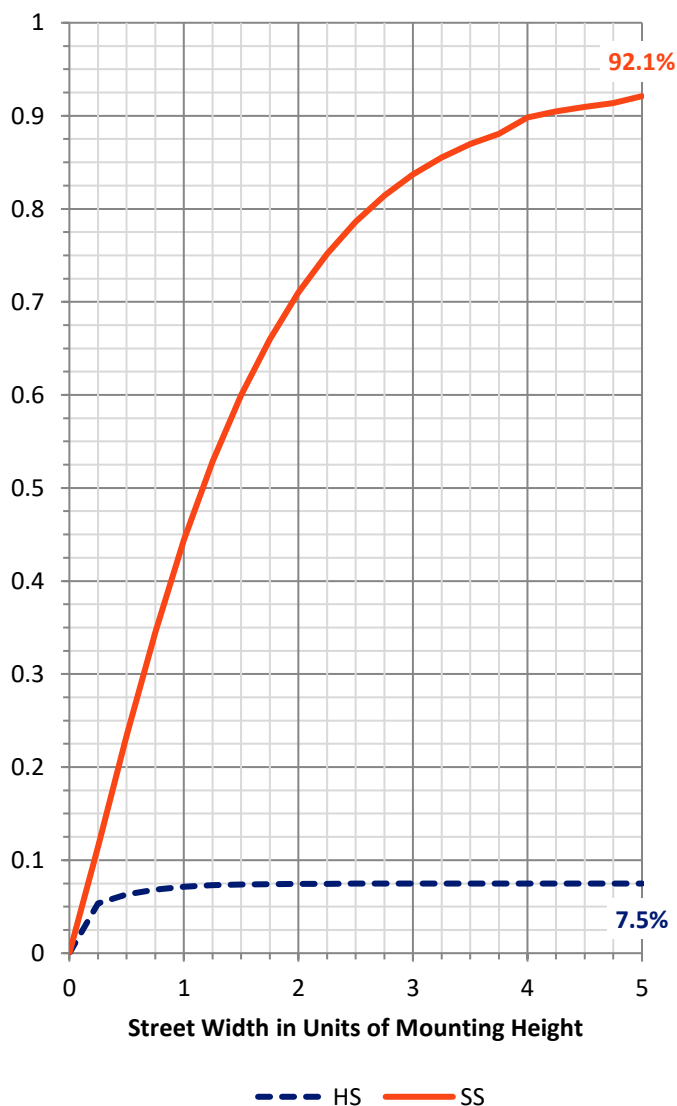
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1890.4	0.0	1890.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	23219.9	0.0	23219.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	25110.3	0.0	25110.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.4	1.5
10°-20°	899.4	3.6
20°-30°	1443.8	5.8
30°-40°	2210.2	8.8
40°-50°	3547.7	14.1
50°-60°	5211.0	20.8
60°-70°	6563.1	26.1
70°-80°	4380.1	17.4
80°-90°	489.5	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°	25110.3	100.0
0°-180°	25110.3	100.0

Coefficient of Utilization



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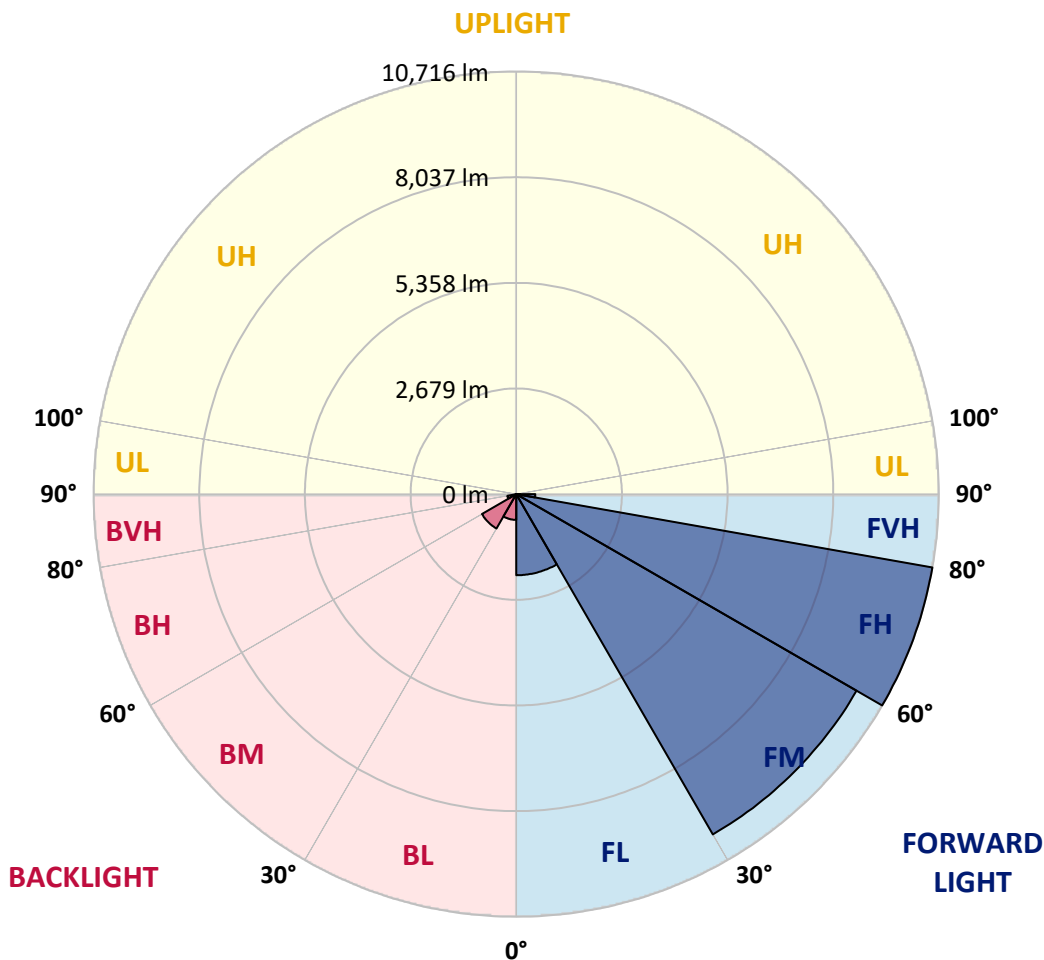
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.0	8.2			
FM (30°-60°)	9964.1	39.7			
FH (60°-80°)	10715.6	42.7			G4/12000
FVH (80°-90°)	484.1	1.9			G3/500
BL (0°-30°)	652.7	2.6	B2/1000		
BM (30°-60°)	1004.8	4.0	B2/2500		
BH (60°-80°)	227.5	0.9	B1/500		G1/500
BVH (80°-90°)	5.4	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°	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6
2.5°	4709.8	4756.0	4709.8	4690.1	4670.3	4673.6	4620.9	4630.8	4568.2	4485.9	4420.0
5°	4858.1	4920.6	4871.2	4848.2	4844.9	4782.3	4756.0	4693.4	4617.6	4489.2	4410.1
7.5°	4844.9	4831.7	4854.8	4835.0	4792.2	4792.2	4762.5	4673.6	4597.9	4452.9	4317.9
10°	4746.1	4785.6	4765.8	4742.8	4752.7	4756.0	4700.0	4637.4	4614.3	4469.4	4248.7
12.5°	4736.2	4670.3	4742.8	4746.1	4703.3	4700.0	4693.4	4676.9	4604.4	4472.7	4265.2
15°	4703.3	4676.9	4749.4	4752.7	4762.5	4752.7	4762.5	4749.4	4676.9	4601.2	4337.7
17.5°	4729.6	4700.0	4802.1	4851.5	4828.4	4874.5	4858.1	4798.8	4736.2	4647.3	4406.8
20°	4736.2	4779.0	4891.0	4910.8	4983.2	4907.5	4904.2	4841.6	4802.1	4706.6	4449.7
22.5°	4858.1	4877.8	5016.1	5059.0	5062.3	5052.4	4970.0	4897.6	4881.1	4762.5	4459.5
25°	5042.5	5111.7	5174.2	5200.6	5210.5	5164.4	5078.7	4986.5	4947.0	4871.2	4561.6
27.5°	5368.6	5325.7	5381.7	5421.3	5309.3	5325.7	5217.1	5138.0	5082.0	5016.1	4680.2
30°	5658.4	5618.9	5622.2	5615.6	5520.1	5431.1	5401.5	5263.2	5194.0	5220.4	4864.6
32.5°	5918.6	5833.0	5905.4	5872.5	5694.6	5668.3	5645.2	5470.7	5483.8	5605.7	5141.3
35°	6159.0	6129.4	6188.7	6129.4	6010.8	6004.2	5981.2	5829.7	5902.1	6076.7	5615.6
37.5°	6379.7	6389.6	6462.0	6432.4	6442.3	6448.9	6435.7	6274.3	6481.8	6873.7	6168.9
40°	6583.9	6570.7	6748.6	6840.8	6860.6	6933.0	6933.0	6893.5	7213.0	7654.3	6936.3
42.5°	6801.3	6834.2	7064.8	7219.6	7407.3	7469.9	7555.5	7575.3	8069.3	8573.2	7720.2
45°	7157.0	7101.0	7394.1	7759.7	7924.4	8145.1	8276.8	8388.8	8984.9	9676.6	8504.1
47.5°	7608.2	7496.2	7753.1	8283.4	8665.5	8846.6	9083.7	9232.0	9814.9	10529.6	9245.1
50°	8108.8	7993.6	8118.7	8849.9	9294.5	9623.9	9926.9	10114.6	10819.5	11484.8	9785.3
52.5°	8675.3	8569.9	8589.7	9439.5	10094.9	10335.3	10733.8	11013.8	11715.3	12061.2	9976.3
55°	9278.1	9251.7	9189.1	10015.8	10796.4	11336.6	11577.0	11912.9	12634.2	12374.0	10183.8
57.5°	9884.1	9801.7	9890.7	10779.9	11922.8	12245.6	12578.3	12779.2	13144.7	12647.4	10104.8
60°	10453.9	10460.5	10585.6	11609.9	12881.3	13339.1	13638.8	13516.9	13668.4	12766.0	9923.6
62.5°	10934.7	10921.6	11237.8	12542.0	14149.3	14458.9	14682.9	14139.4	13912.2	12881.3	9607.4
65°	11366.2	11514.4	12011.8	13652.0	15341.6	15697.3	15562.3	14729.0	14149.3	12542.0	8718.2
67.5°	11692.3	11912.9	12775.9	14696.0	16435.1	16685.4	16497.6	15176.9	13869.3	11211.4	7101.0
70°	11883.3	12107.3	13322.6	15565.5	17307.9	17489.0	17047.7	14831.1	12235.7	8118.7	4429.9
71°	11824.0	12097.4	13428.0	15657.8	17515.4	17650.4	16965.3	14192.1	11003.9	6798.0	3231.0
72.5°	11287.2	11544.1	12990.0	15591.9	17265.0	17182.7	16323.1	12657.3	8662.2	4334.4	1669.9
75°	8293.3	8569.9	11148.8	13487.3	15410.7	14844.2	13210.6	8882.8	4518.8	1327.3	487.5
77.5°	4130.2	4176.3	6919.8	9791.9	11303.6	10740.4	8853.2	4953.6	1689.6	391.9	243.7
80°	1903.7	1916.9	2595.4	5072.1	6834.2	6432.4	4960.2	2443.8	764.1	207.5	191.0
82.5°	1297.7	1317.4	1564.5	2101.3	2967.5	2503.1	2009.1	1564.5	438.0	125.2	187.7
85°	237.1	217.4	876.1	1113.2	1146.2	777.3	694.9	1353.7	164.7	72.5	164.7
87.5°	0.0	3.3	121.9	454.5	408.4	181.1	237.1	329.4	16.5	23.1	29.6
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°	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6	4370.6
2.5°	4364.0	4327.8	4205.9	4070.9	3949.0	3853.5	3731.6	3675.7	3586.7	3537.3	3534.0
5°	4301.4	4202.6	3991.8	3764.6	3511.0	3300.2	3066.3	2934.6	2783.1	2737.0	2727.1
7.5°	4196.0	4054.4	3744.8	3425.3	3036.7	2664.5	2378.0	2071.7	1883.9	1804.9	1775.2
10°	4130.2	3958.9	3537.3	3059.8	2516.3	1992.6	1590.8	1264.7	1093.5	1011.1	991.4
12.5°	4130.2	3945.7	3369.4	2710.6	1989.3	1363.5	984.8	797.1	741.1	721.3	721.3
15°	4120.3	3919.4	3208.0	2351.6	1472.2	915.6	734.5	694.9	688.4	685.1	681.8
17.5°	4169.7	3873.3	3043.3	1966.3	1040.8	721.3	675.2	668.6	662.0	662.0	655.4
20°	4205.9	3846.9	2845.7	1557.9	777.3	668.6	648.8	639.0	635.7	632.4	639.0
22.5°	4176.3	3807.4	2601.9	1165.9	678.5	635.7	622.5	612.6	606.0	606.0	609.3
25°	4232.3	3771.2	2358.2	879.4	635.7	606.0	592.8	586.3	583.0	579.7	573.1
27.5°	4308.0	3787.6	2068.4	708.1	599.4	576.4	563.2	556.6	553.3	546.7	553.3
30°	4400.2	3784.3	1748.9	619.2	566.5	543.4	530.3	527.0	520.4	517.1	520.4
32.5°	4558.3	3870.0	1419.5	573.1	530.3	510.5	497.3	494.0	490.7	487.5	484.2
35°	4897.6	3975.4	1109.9	536.9	497.3	474.3	464.4	457.8	454.5	451.2	447.9
37.5°	5315.9	4209.2	846.5	503.9	464.4	441.3	431.5	428.2	415.0	411.7	408.4
40°	5839.5	4459.5	652.1	467.7	434.8	411.7	401.8	391.9	375.5	368.9	362.3
42.5°	6491.7	4703.3	536.9	434.8	401.8	385.4	368.9	352.4	339.2	326.1	319.5
45°	7143.8	4986.5	471.0	405.1	375.5	355.7	342.5	319.5	296.4	276.7	273.4
47.5°	7687.3	5088.6	431.5	372.2	349.1	332.7	312.9	283.2	250.3	230.6	227.3
50°	8092.4	5029.3	391.9	339.2	319.5	303.0	276.7	240.4	207.5	187.7	181.1
52.5°	8171.4	4769.1	355.7	312.9	289.8	270.1	240.4	200.9	164.7	144.9	141.6
55°	8115.4	4337.7	326.1	289.8	263.5	233.8	200.9	161.4	128.5	108.7	105.4
57.5°	8000.1	3827.2	293.1	260.2	230.6	200.9	164.7	131.7	95.5	75.8	75.8
60°	7608.2	3132.2	260.2	227.3	197.6	171.3	135.0	95.5	65.9	49.4	46.1
62.5°	7061.5	2407.6	227.3	194.3	171.3	141.6	105.4	69.2	39.5	26.3	26.3
65°	6063.5	1686.3	191.0	161.4	141.6	115.3	79.0	42.8	23.1	9.9	9.9
67.5°	4607.7	1044.1	158.1	135.0	121.9	92.2	56.0	26.3	9.9	3.3	0.0
70°	2644.8	543.4	125.2	108.7	95.5	69.2	39.5	13.2	6.6	0.0	0.0
71°	1847.7	401.8	112.0	95.5	85.6	62.6	32.9	9.9	3.3	0.0	0.0
72.5°	925.5	266.8	95.5	79.0	69.2	49.4	26.3	9.9	3.3	0.0	0.0
75°	329.4	171.3	65.9	52.7	49.4	36.2	16.5	6.6	3.3	0.0	0.0
77.5°	227.3	138.3	46.1	32.9	32.9	23.1	9.9	3.3	3.3	0.0	0.0
80°	207.5	75.8	29.6	19.8	16.5	13.2	6.6	3.3	0.0	0.0	0.0
82.5°	207.5	56.0	16.5	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
85°	144.9	29.6	9.9	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	23.1	9.9	6.6	3.3	3.3	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)