

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: P484021

Luminaire Tested: **IFLD-S-SA6A-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484021
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

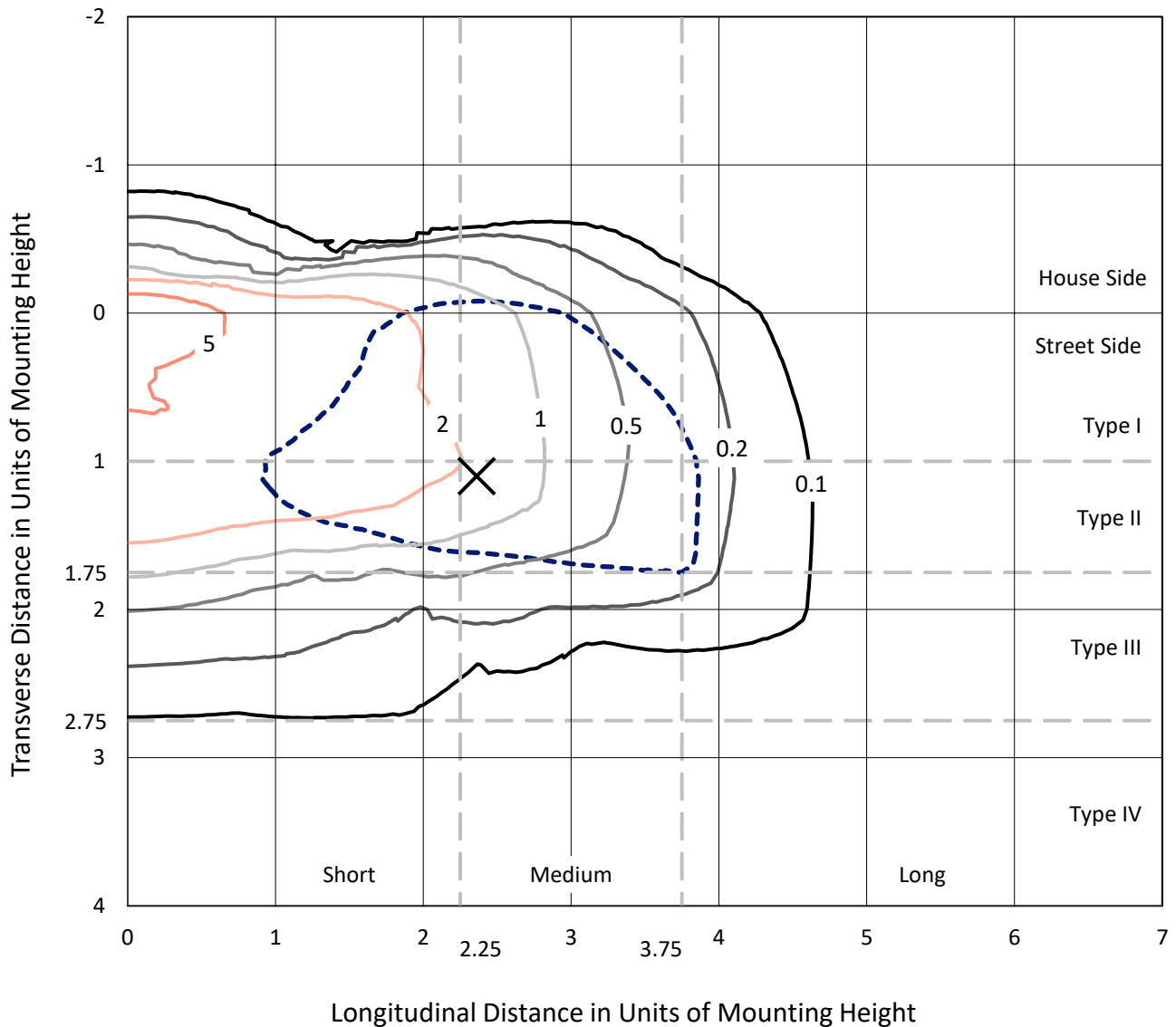
Lumens per Lamp: N/A
Luminaire Lumens: 22214.1 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

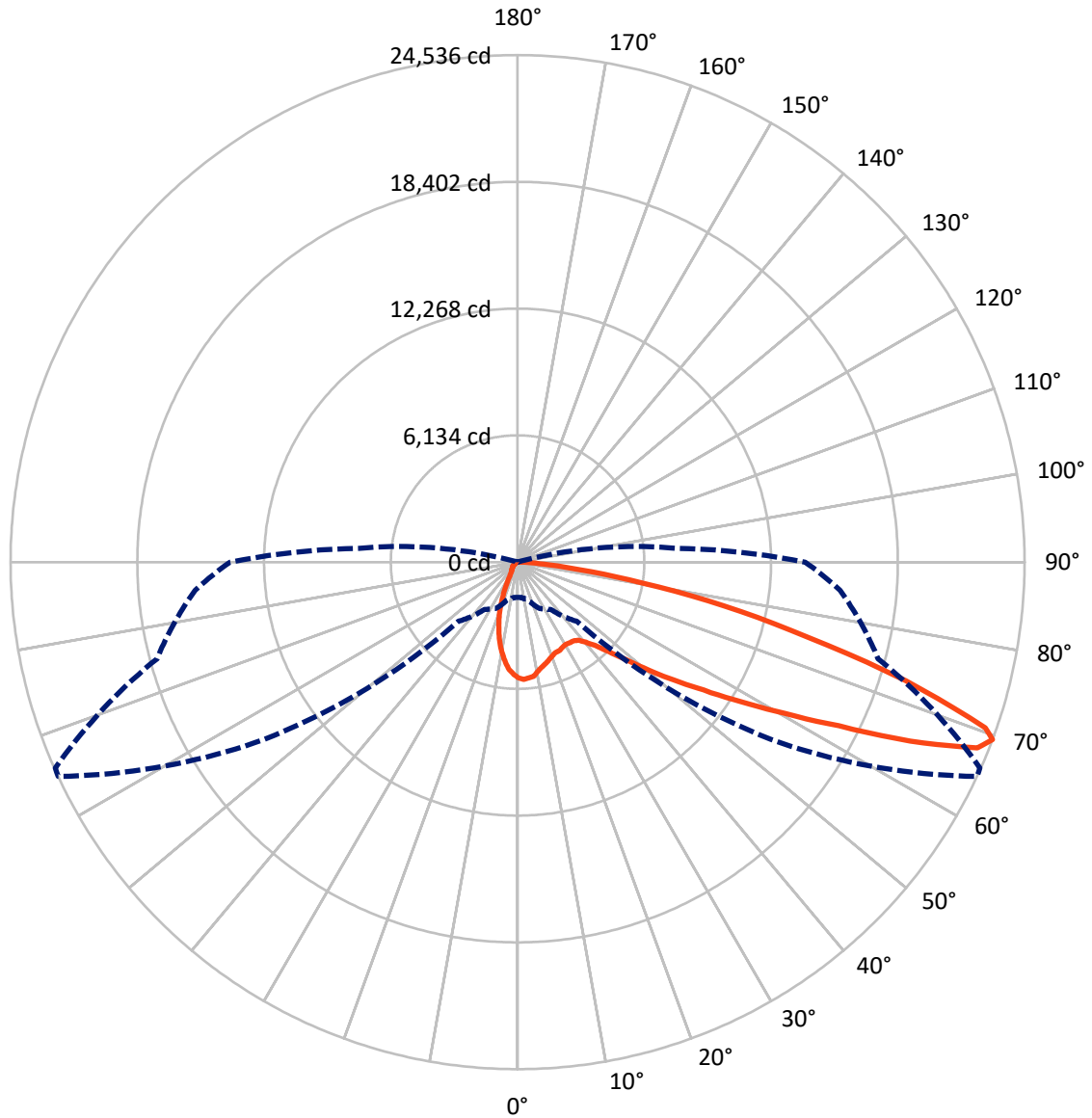
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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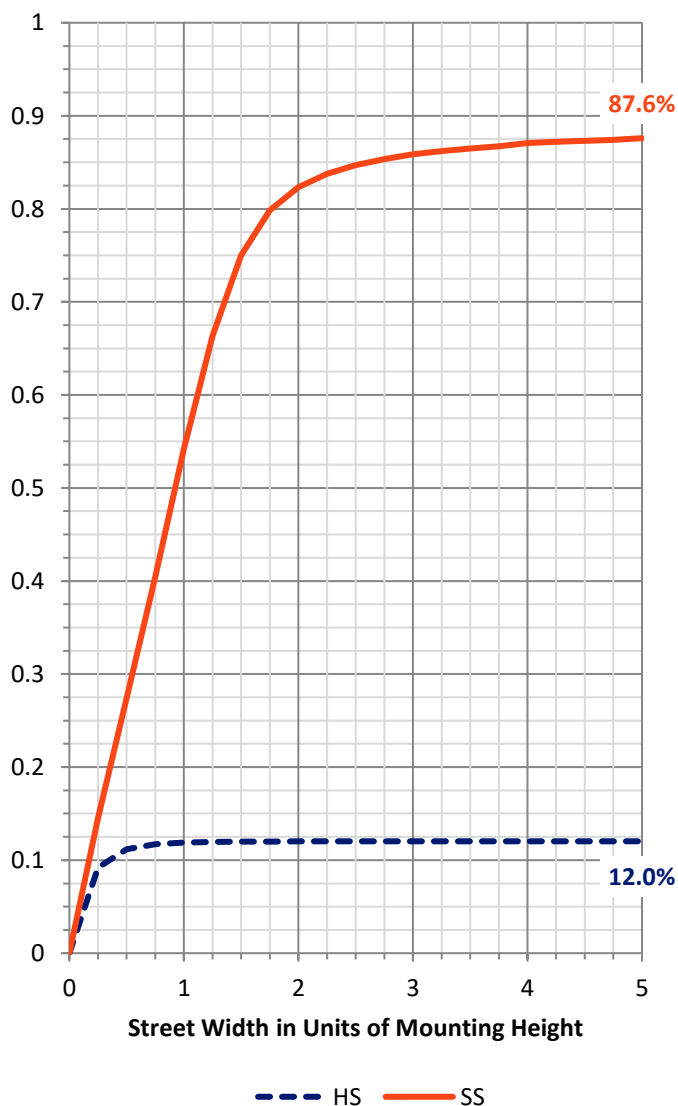
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2694.7	0.0	2694.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	19519.4	0.0	19519.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	22214.1	0.0	22214.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.3	2.1
10°-20°	1002.8	4.5
20°-30°	1396.1	6.3
30°-40°	1978.4	8.9
40°-50°	3117.9	14.0
50°-60°	5059.3	22.8
60°-70°	5650.3	25.4
70°-80°	3181.7	14.3
80°-90°	369.2	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°	22214.1	100.0
0°-180°	22214.1	100.0

Coefficient of Utilization



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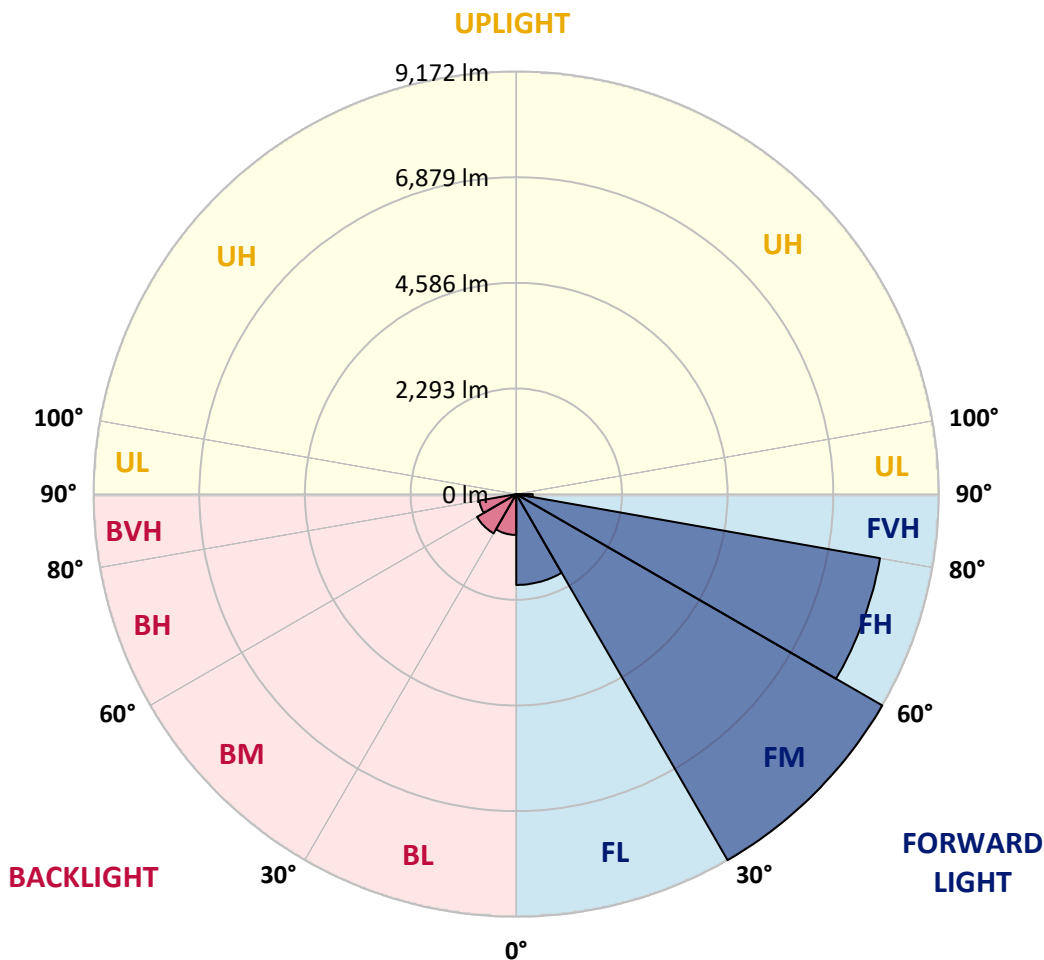
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1971.3	8.9			
FM (30°-60°)	9172.4	41.3			
FH (60°-80°)	8016.7	36.1			G4/12000
FVH (80°-90°)	359.0	1.6			G3/500
BL (0°-30°)	885.9	4.0	B2/1000		
BM (30°-60°)	983.3	4.4	B1/1000		
BH (60°-80°)	815.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	10.2	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°	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7
2.5°	5393.9	5435.9	5447.9	5489.8	5510.8	5600.7	5651.6	5681.6	5666.6	5699.6	5702.6
5°	5010.4	4986.4	5049.3	5094.3	5190.2	5346.0	5504.8	5627.7	5684.6	5738.5	5729.6
7.5°	4599.8	4587.8	4650.8	4752.7	4839.6	5028.3	5283.1	5585.7	5573.7	5705.6	5744.5
10°	4318.1	4330.1	4351.1	4453.0	4581.8	4773.6	5091.3	5373.0	5435.9	5714.6	5792.5
12.5°	4060.4	4081.4	4120.4	4225.2	4375.1	4572.9	4881.5	5211.1	5307.0	5663.6	5819.5
15°	3976.5	3928.6	4006.5	4084.4	4240.2	4417.0	4677.7	5088.3	5130.2	5603.7	5864.4
17.5°	3907.6	3877.6	3913.6	3976.5	4141.3	4285.2	4530.9	4956.4	5034.3	5579.7	5858.4
20°	3928.6	3901.6	3916.6	3964.5	4039.5	4174.3	4402.0	4830.6	4914.5	5468.8	5849.4
22.5°	3988.5	4009.5	3982.5	3994.5	4018.5	4087.4	4333.1	4740.7	4812.6	5447.9	5900.4
25°	4258.2	4222.3	4186.3	4171.3	4030.5	4060.4	4312.1	4734.7	4785.6	5373.0	5858.4
27.5°	4539.9	4509.9	4494.9	4408.0	4216.3	4126.4	4315.1	4650.8	4719.7	5343.0	5807.5
30°	4881.5	4920.5	4860.5	4755.7	4489.0	4267.2	4348.1	4608.8	4704.7	5229.1	5774.5
32.5°	5241.1	5262.1	5292.0	5214.1	4869.5	4480.0	4447.0	4647.8	4653.8	5229.1	5699.6
35°	5648.6	5618.7	5696.6	5702.6	5399.9	4857.5	4635.8	4674.7	4737.7	5205.1	5672.6
37.5°	5999.3	6050.2	6140.1	6283.9	5972.3	5390.9	4929.5	4800.6	4827.6	5316.0	5693.6
40°	6382.8	6433.8	6637.5	6781.4	6604.6	5990.3	5376.0	5094.3	5115.2	5480.8	5801.5
42.5°	6805.3	6904.2	7147.0	7398.7	7350.7	6751.4	5951.3	5525.8	5516.8	5891.4	6023.2
45°	7377.7	7509.6	7773.3	8063.9	8105.9	7623.4	6718.4	6170.1	6200.0	6427.8	6481.7
47.5°	8174.8	8168.8	8426.5	8750.2	8992.9	8528.4	7635.4	7036.1	7033.1	7275.8	7161.9
50°	8944.9	8947.9	9016.9	9391.4	10020.7	9784.0	8771.1	8186.8	8153.8	8273.7	8090.9
52.5°	9301.5	9259.6	9208.6	9661.1	10811.8	11366.2	10209.5	9490.3	9463.4	9391.4	9343.5
55°	8927.0	8941.9	8938.9	9409.4	11228.4	13035.3	12055.4	10925.7	10880.8	10656.0	10721.9
57.5°	7725.3	7677.4	7782.2	8516.4	10751.9	14174.1	14695.5	12735.7	12618.8	11872.6	11722.8
60°	5750.5	5765.5	5852.4	6718.4	9568.2	14413.8	17221.6	14860.3	14356.8	12729.7	12522.9
62.5°	4015.5	3985.5	4018.5	4503.9	6841.3	13454.9	18929.7	17443.4	16957.9	13703.6	13583.7
65°	2873.8	2834.8	2966.7	3263.3	4108.4	10287.4	19172.4	20883.5	20449.0	15258.8	14971.2
67.5°	2067.7	2061.7	2214.5	2753.9	2918.7	5924.3	17374.5	24000.0	23736.3	17104.8	15816.2
69°	1711.1	1714.1	1860.9	2466.2	2786.9	4045.4	14950.2	24536.4	24488.5	18057.7	15657.4
70°	1492.3	1504.3	1675.1	2295.4	2732.9	3326.3	12888.5	24009.0	23961.0	18243.5	15133.0
72.5°	920.0	929.0	1153.7	1839.9	2598.1	2714.9	7707.3	19642.9	19807.7	17392.4	13038.3
75°	440.5	443.5	605.3	1330.5	2505.2	2574.1	4129.4	14494.7	14842.3	14042.2	10188.5
77.5°	233.7	233.7	290.7	707.2	2028.7	2421.3	2451.2	10224.5	10512.2	8879.0	5792.5
80°	116.9	119.9	176.8	368.6	1258.6	2373.3	1914.8	6098.1	6254.0	3622.9	1804.0
82.5°	44.9	47.9	83.9	221.8	653.3	2004.7	1681.1	2999.6	2960.7	848.0	440.5
85°	6.0	6.0	30.0	131.9	278.7	884.0	1387.4	1252.6	1210.6	185.8	212.8
87.5°	0.0	0.0	6.0	39.0	83.9	257.7	536.4	344.6	383.6	50.9	104.9
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°	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7	5600.7
2.5°	5687.6	5624.7	5528.8	5435.9	5337.0	5217.1	5085.3	5037.3	4953.4	4947.4	4995.4
5°	5681.6	5579.7	5411.9	5214.1	4932.5	4719.7	4489.0	4321.1	4192.3	4108.4	4129.4
7.5°	5711.6	5588.7	5298.0	4872.5	4509.9	4087.4	3730.8	3485.1	3260.3	3149.5	3137.5
10°	5663.6	5498.8	5073.3	4477.0	3943.6	3353.2	2831.8	2502.2	2166.6	2043.7	2049.7
12.5°	5690.6	5459.9	4830.6	4069.4	3335.2	2568.1	1944.8	1495.3	1180.7	1078.8	1066.8
15°	5708.6	5376.0	4596.8	3581.0	2661.0	1750.0	1126.7	848.0	749.2	731.2	728.2
17.5°	5639.7	5274.1	4267.2	3098.5	1971.8	1063.8	749.2	692.2	674.2	662.3	656.3
20°	5636.7	5214.1	3982.5	2604.1	1315.5	725.2	647.3	626.3	599.3	590.3	590.3
22.5°	5585.7	5088.3	3640.9	2061.7	839.1	623.3	581.3	548.4	518.4	506.4	503.4
25°	5570.7	4941.4	3320.3	1549.3	638.3	557.4	515.4	467.5	431.5	413.5	404.5
27.5°	5528.8	4815.6	2996.6	1090.8	557.4	497.4	443.5	392.6	350.6	323.6	320.6
30°	5378.9	4683.7	2637.0	755.2	506.4	440.5	380.6	320.6	278.7	260.7	254.7
32.5°	5316.0	4560.9	2244.5	581.3	461.5	389.6	320.6	266.7	233.7	215.8	212.8
35°	5241.1	4381.1	1863.9	506.4	419.5	338.6	269.7	224.7	197.8	182.8	182.8
37.5°	5250.1	4237.2	1507.3	458.5	374.6	290.7	230.7	191.8	167.8	152.8	152.8
40°	5223.1	4123.4	1171.7	416.5	332.6	248.7	194.8	161.8	140.8	125.9	122.9
42.5°	5346.0	4093.4	884.0	380.6	290.7	212.8	167.8	137.8	116.9	98.9	98.9
45°	5552.8	4141.3	689.2	347.6	248.7	182.8	143.8	113.9	92.9	80.9	77.9
47.5°	6104.1	4330.1	539.4	320.6	212.8	158.8	119.9	92.9	74.9	62.9	59.9
50°	6904.2	4752.7	458.5	281.7	179.8	134.8	98.9	71.9	59.9	47.9	44.9
52.5°	8043.0	5462.9	416.5	248.7	149.8	110.9	77.9	56.9	44.9	36.0	33.0
55°	9283.6	6349.9	377.6	209.8	125.9	89.9	62.9	44.9	33.0	24.0	21.0
57.5°	10251.5	7117.0	344.6	173.8	101.9	71.9	47.9	33.0	24.0	15.0	12.0
60°	11309.3	7656.4	302.7	137.8	83.9	53.9	36.0	24.0	18.0	9.0	9.0
62.5°	12400.1	8288.7	248.7	107.9	65.9	42.0	27.0	18.0	12.0	3.0	3.0
65°	13916.3	8783.1	191.8	83.9	50.9	30.0	21.0	15.0	6.0	0.0	0.0
67.5°	14344.9	8540.4	140.8	65.9	36.0	21.0	15.0	9.0	3.0	0.0	0.0
69°	13916.3	7692.3	122.9	56.9	30.0	18.0	12.0	6.0	3.0	0.0	0.0
70°	13134.2	7033.1	107.9	47.9	27.0	18.0	9.0	6.0	3.0	0.0	0.0
72.5°	10985.6	5393.9	83.9	36.0	21.0	15.0	9.0	6.0	0.0	0.0	0.0
75°	8057.9	3332.3	62.9	27.0	18.0	12.0	9.0	6.0	0.0	0.0	0.0
77.5°	4318.1	1216.6	44.9	18.0	12.0	9.0	9.0	6.0	0.0	0.0	0.0
80°	1183.7	359.6	33.0	12.0	9.0	6.0	6.0	3.0	0.0	0.0	0.0
82.5°	323.6	92.9	21.0	12.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0
85°	173.8	36.0	12.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	89.9	12.0	9.0	6.0	6.0	3.0	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)