

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: P484538

Luminaire Tested: **IFLD-L-SA7A-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484538
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

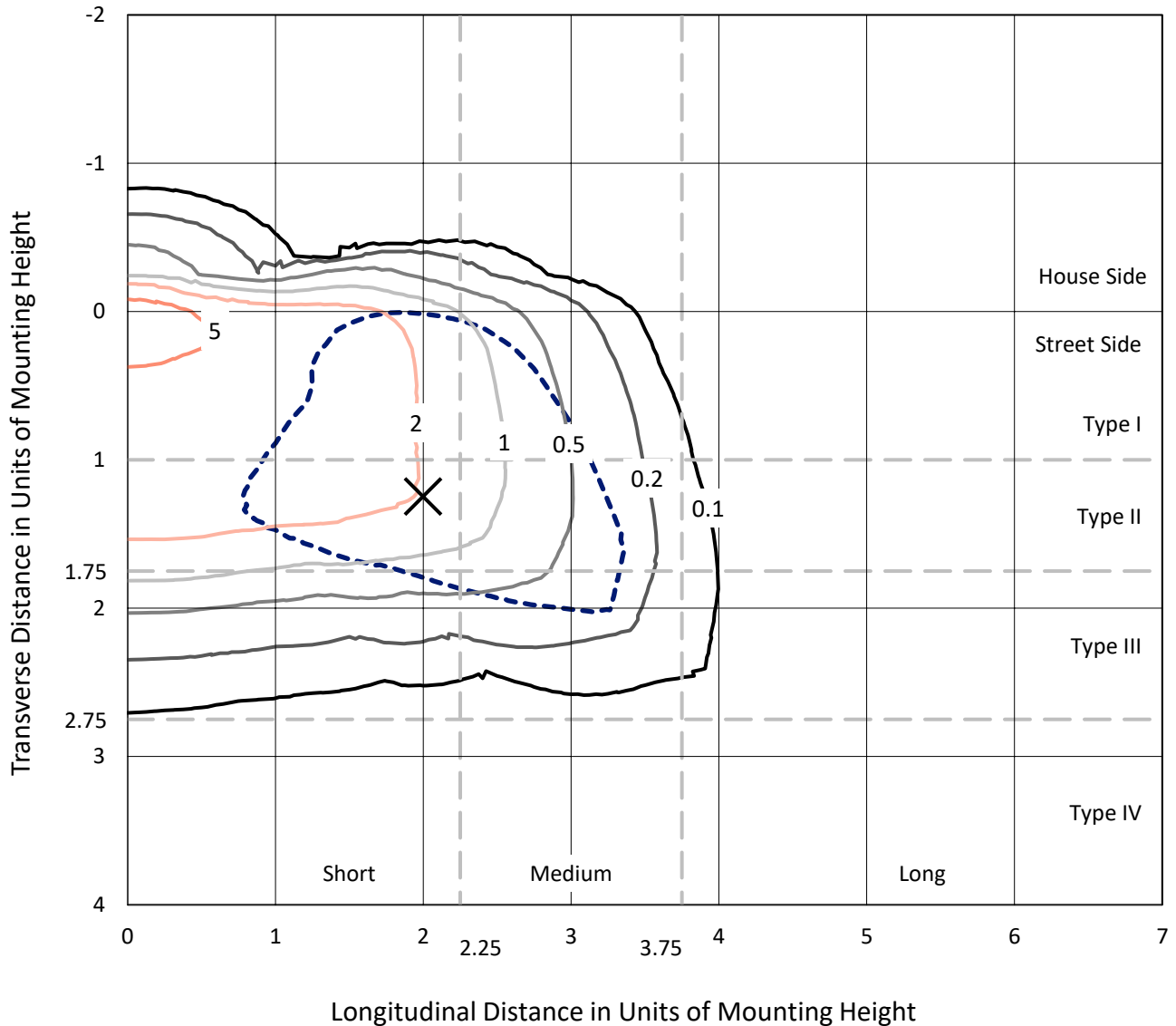
Lumens per Lamp: N/A
Luminaire Lumens: 19242.3 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 217.6
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

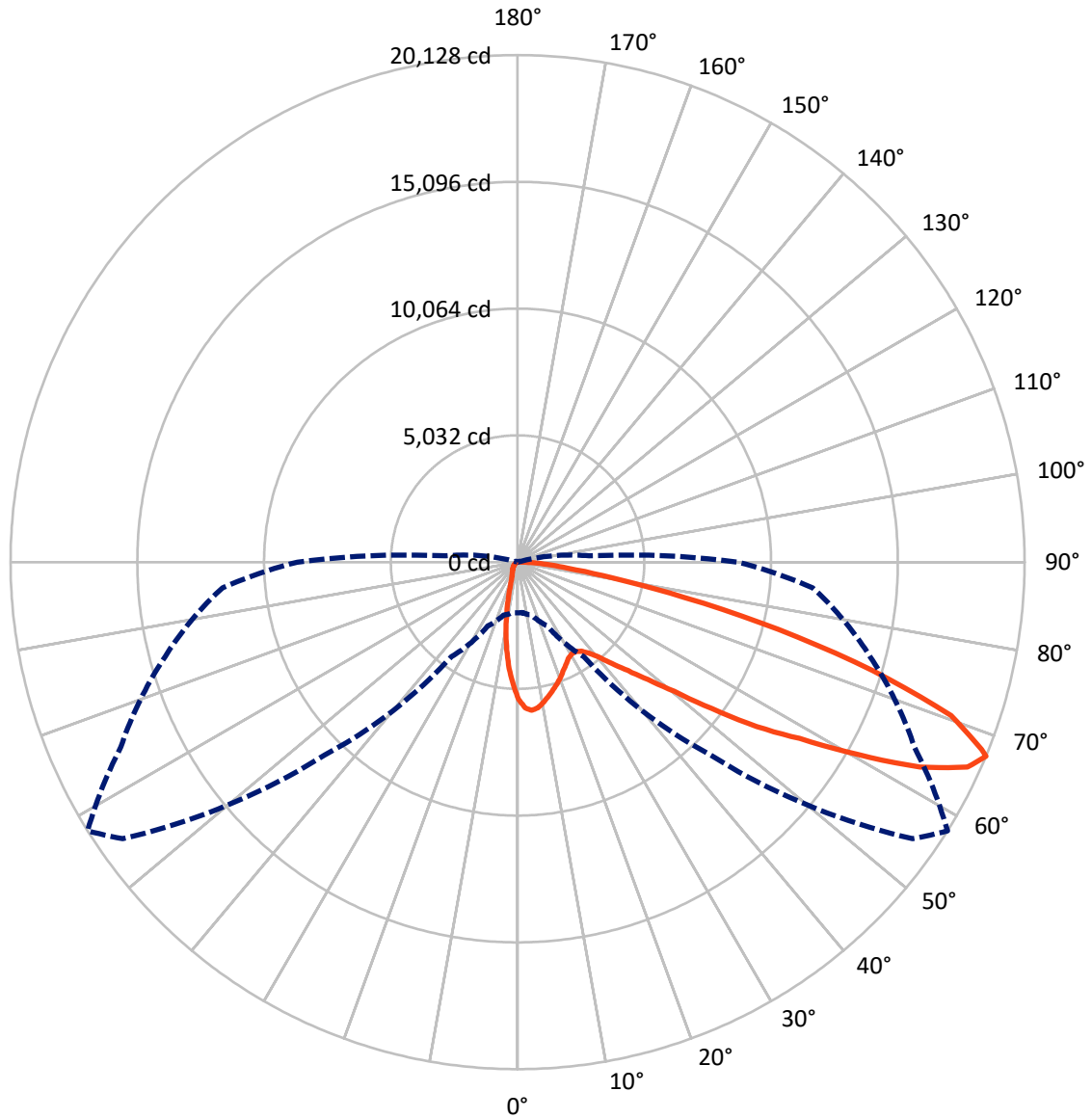
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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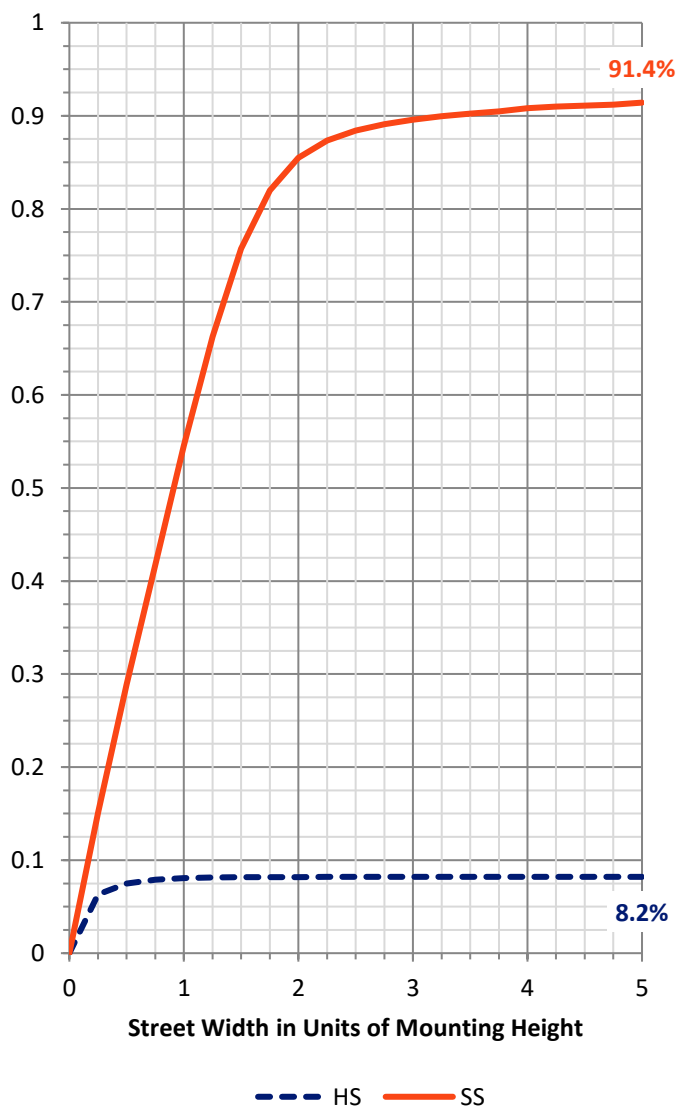
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1590.5	0.0	1590.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	17651.8	0.0	17651.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	19242.3	0.0	19242.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.6	2.2
10°-20°	897.2	4.7
20°-30°	1190.4	6.2
30°-40°	1649.5	8.6
40°-50°	2691.5	14.0
50°-60°	4730.9	24.6
60°-70°	5239.8	27.2
70°-80°	2171.4	11.3
80°-90°	239.0	1.2
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°	19242.3	100.0
0°-180°	19242.3	100.0

Coefficient of Utilization



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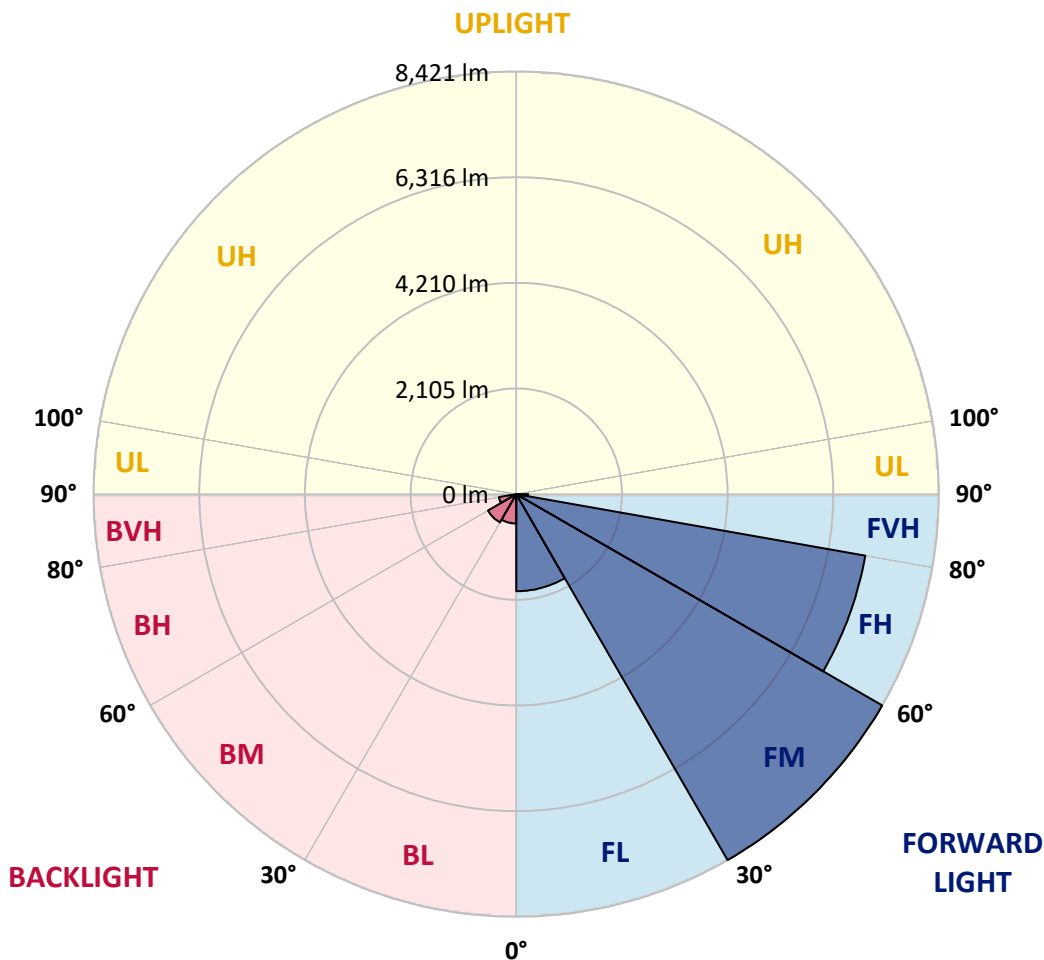
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1934.4	10.1			
FM (30°-60°)	8420.8	43.8			
FH (60°-80°)	7061.5	36.7			G3/7500
FVH (80°-90°)	235.1	1.2			G3/500
BL (0°-30°)	585.8	3.0	B2/1000		
BM (30°-60°)	651.1	3.4	B1/1000		
BH (60°-80°)	349.7	1.8	B1/500		G1/500
BVH (80°-90°)	3.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6
2.5°	5931.9	5952.3	5970.2	5937.0	5965.1	5924.2	5819.5	5796.5	5778.6	5622.8	5533.4
5°	5929.3	5906.3	5924.2	5939.6	5901.2	5931.9	5906.3	5908.9	5839.9	5699.4	5449.1
7.5°	5533.4	5523.1	5533.4	5607.4	5691.8	5758.2	5796.5	5834.8	5788.8	5579.3	5336.7
10°	4999.4	5050.5	5078.6	5211.5	5341.8	5464.4	5584.5	5656.0	5643.2	5558.9	5214.0
12.5°	4626.5	4611.1	4713.3	4800.2	4930.5	5178.3	5387.7	5454.2	5530.8	5413.3	5053.1
15°	4281.6	4240.7	4302.0	4452.7	4675.0	4871.7	5165.5	5265.1	5362.2	5392.9	4966.2
17.5°	3952.0	3972.5	4036.3	4171.7	4381.2	4657.1	4933.0	5076.1	5308.6	5267.7	4835.9
20°	3793.6	3837.1	3860.1	3929.0	4074.7	4350.6	4761.9	4876.8	5124.6	5265.1	4708.2
22.5°	3801.3	3801.3	3747.7	3788.5	3921.4	4136.0	4529.4	4657.1	5050.5	5132.3	4593.3
25°	3883.1	3832.0	3834.5	3786.0	3842.2	3959.7	4319.9	4475.7	4899.8	5145.1	4531.9
27.5°	3944.4	3934.2	3918.8	3906.1	3834.5	3852.4	4182.0	4309.7	4841.1	5129.7	4437.4
30°	4166.6	4120.6	4105.3	4077.2	3982.7	3895.8	4072.1	4233.0	4795.1	5165.5	4383.8
32.5°	4353.1	4360.8	4373.6	4291.8	4210.1	3995.5	4102.8	4230.5	4761.9	5247.2	4437.4
35°	4588.1	4621.4	4626.5	4600.9	4514.1	4302.0	4230.5	4340.3	4818.1	5392.9	4442.5
37.5°	4945.8	4910.0	5007.1	5017.3	4956.0	4675.0	4526.8	4570.3	4984.1	5625.3	4636.7
40°	5178.3	5221.7	5403.1	5515.5	5410.7	5155.3	4956.0	4948.3	5224.3	5990.6	4876.8
42.5°	5436.3	5533.4	5732.6	5975.3	5962.5	5725.0	5523.1	5489.9	5650.9	6519.5	5257.5
45°	5788.8	5875.7	6154.1	6519.5	6718.7	6516.9	6212.9	6146.5	6169.5	7239.9	5906.3
47.5°	6373.8	6350.8	6751.9	7112.1	7439.1	7283.3	7153.0	6958.9	6941.0	8088.0	6803.0
50°	7035.5	7030.4	7388.0	7796.8	8174.9	8478.9	8261.7	8049.7	8054.8	9240.2	7858.1
52.5°	7663.9	7763.6	8149.3	8555.5	9204.4	9531.4	9740.9	9656.6	9250.4	10269.7	8987.2
55°	7996.0	8082.9	8466.1	9166.1	10190.5	11031.0	11598.1	11526.6	10742.3	11429.5	10101.1
57.5°	7681.8	7740.6	8259.2	9176.3	10880.2	12755.3	13299.5	13210.1	12285.3	12315.9	11447.4
60°	6366.2	6458.1	7229.6	8305.2	10612.0	14083.8	15642.1	15506.7	13690.3	13437.4	12313.4
62.5°	4409.3	4470.6	5104.2	6442.8	9339.8	14546.2	17854.4	17928.5	15172.0	14311.1	12571.4
65°	2856.1	2851.0	3213.7	4120.6	6619.1	13146.2	19162.4	19622.2	16602.6	14444.0	12492.2
67°	2018.2	2010.5	2181.7	2794.8	4583.0	10831.7	19139.4	20128.1	17379.3	14482.3	11759.0
67.5°	1862.3	1854.7	2018.2	2570.0	4136.0	10073.0	18853.3	19867.5	17652.6	14428.6	11437.1
70°	1445.9	1425.5	1486.8	1770.4	2409.0	6514.3	16135.1	18250.4	17085.5	13090.0	9132.9
72.5°	1044.9	1067.8	1164.9	1453.6	1890.4	3505.0	12298.1	14758.2	14270.3	9866.0	5804.2
75°	728.1	748.5	904.3	1185.4	1734.6	2125.5	8315.4	10704.0	9940.1	5446.5	2472.9
77.5°	380.6	406.2	577.3	947.8	1576.2	1645.2	4968.8	6787.7	5267.7	1939.0	682.1
80°	176.3	189.0	288.7	671.9	1318.2	1445.9	2897.0	3775.8	2107.6	434.3	235.0
82.5°	76.6	84.3	132.8	385.8	935.0	1264.5	1793.4	1979.9	763.8	140.5	145.6
85°	15.3	17.9	51.1	204.4	452.2	766.4	1259.4	1175.1	383.2	69.0	115.0
87.5°	0.0	0.0	12.8	58.8	122.6	227.4	533.9	533.9	117.5	35.8	43.4
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°	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6
2.5°	5454.2	5362.2	5160.4	4973.9	4841.1	4690.3	4491.1	4401.7	4368.4	4322.5	4253.5
5°	5311.1	5198.7	4853.8	4506.4	4125.8	3837.1	3530.5	3351.7	3216.3	3132.0	3103.9
7.5°	5109.3	4879.4	4414.4	3857.5	3364.5	2935.3	2470.3	2156.1	1954.3	1872.6	1795.9
10°	4948.3	4649.5	3941.8	3249.5	2593.0	1964.5	1440.8	1164.9	955.4	876.2	866.0
12.5°	4738.9	4381.2	3499.9	2628.7	1803.6	1170.0	797.0	692.3	633.6	623.3	615.7
15°	4565.2	4138.5	3080.9	2036.1	1167.5	730.6	620.8	595.2	579.9	574.8	577.3
17.5°	4447.6	3878.0	2651.7	1481.7	768.9	597.8	572.2	556.9	549.2	546.7	539.0
20°	4215.2	3658.3	2227.7	1037.2	600.3	551.8	531.4	518.6	510.9	508.4	505.8
22.5°	4082.3	3379.8	1803.6	723.0	533.9	500.7	485.4	475.2	462.4	454.7	452.2
25°	3949.5	3175.4	1425.5	562.0	485.4	462.4	439.4	426.6	406.2	396.0	393.4
27.5°	3793.6	2973.6	1098.5	487.9	436.8	413.9	390.9	370.4	344.9	334.7	329.5
30°	3704.2	2776.9	827.7	436.8	401.1	370.4	342.3	316.8	288.7	270.8	265.7
32.5°	3658.3	2598.1	620.8	398.5	362.8	329.5	293.8	263.1	237.6	222.3	219.7
35°	3602.1	2424.4	487.9	362.8	327.0	291.2	255.5	224.8	199.3	186.5	181.4
37.5°	3660.8	2322.2	406.2	334.7	298.9	258.0	219.7	189.0	168.6	155.8	153.3
40°	3821.8	2237.9	352.5	309.1	270.8	227.4	191.6	160.9	143.1	132.8	127.7
42.5°	4069.6	2237.9	319.3	283.6	245.2	199.3	163.5	140.5	122.6	112.4	109.8
45°	4519.2	2306.8	291.2	258.0	214.6	171.2	140.5	117.5	99.6	89.4	86.9
47.5°	5150.2	2465.2	268.2	235.0	191.6	150.7	122.6	99.6	81.7	71.5	69.0
50°	5998.3	2825.4	245.2	206.9	171.2	130.3	102.2	79.2	63.9	53.6	51.1
52.5°	7055.9	3336.4	222.3	191.6	145.6	109.8	81.7	63.9	48.5	40.9	38.3
55°	8174.9	3962.3	194.2	171.2	125.2	92.0	66.4	48.5	35.8	30.7	28.1
57.5°	9301.5	4445.1	171.2	148.2	102.2	74.1	53.6	38.3	25.5	20.4	17.9
60°	9899.3	4491.1	148.2	122.6	81.7	58.8	40.9	28.1	17.9	12.8	10.2
62.5°	9991.2	4082.3	127.7	99.6	66.4	46.0	28.1	20.4	10.2	5.1	5.1
65°	9518.6	3402.8	109.8	79.2	51.1	33.2	20.4	12.8	5.1	2.6	0.0
67°	8752.2	2851.0	94.5	66.4	40.9	25.5	15.3	7.7	2.6	0.0	0.0
67.5°	8455.9	2697.7	89.4	61.3	38.3	23.0	12.8	7.7	2.6	0.0	0.0
70°	6562.9	1926.2	66.4	43.4	28.1	17.9	10.2	5.1	0.0	0.0	0.0
72.5°	4021.0	1126.6	51.1	30.7	20.4	12.8	7.7	2.6	0.0	0.0	0.0
75°	1686.1	388.3	43.4	23.0	15.3	7.7	5.1	2.6	0.0	0.0	0.0
77.5°	439.4	145.6	30.7	15.3	10.2	7.7	5.1	2.6	0.0	0.0	0.0
80°	178.8	66.4	20.4	10.2	10.2	7.7	5.1	2.6	0.0	0.0	0.0
82.5°	117.5	30.7	12.8	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	89.4	17.9	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	38.3	10.2	7.7	5.1	5.1	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)