

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: P483876

Luminaire Tested: **IFLD-L-SA7B-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483876
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

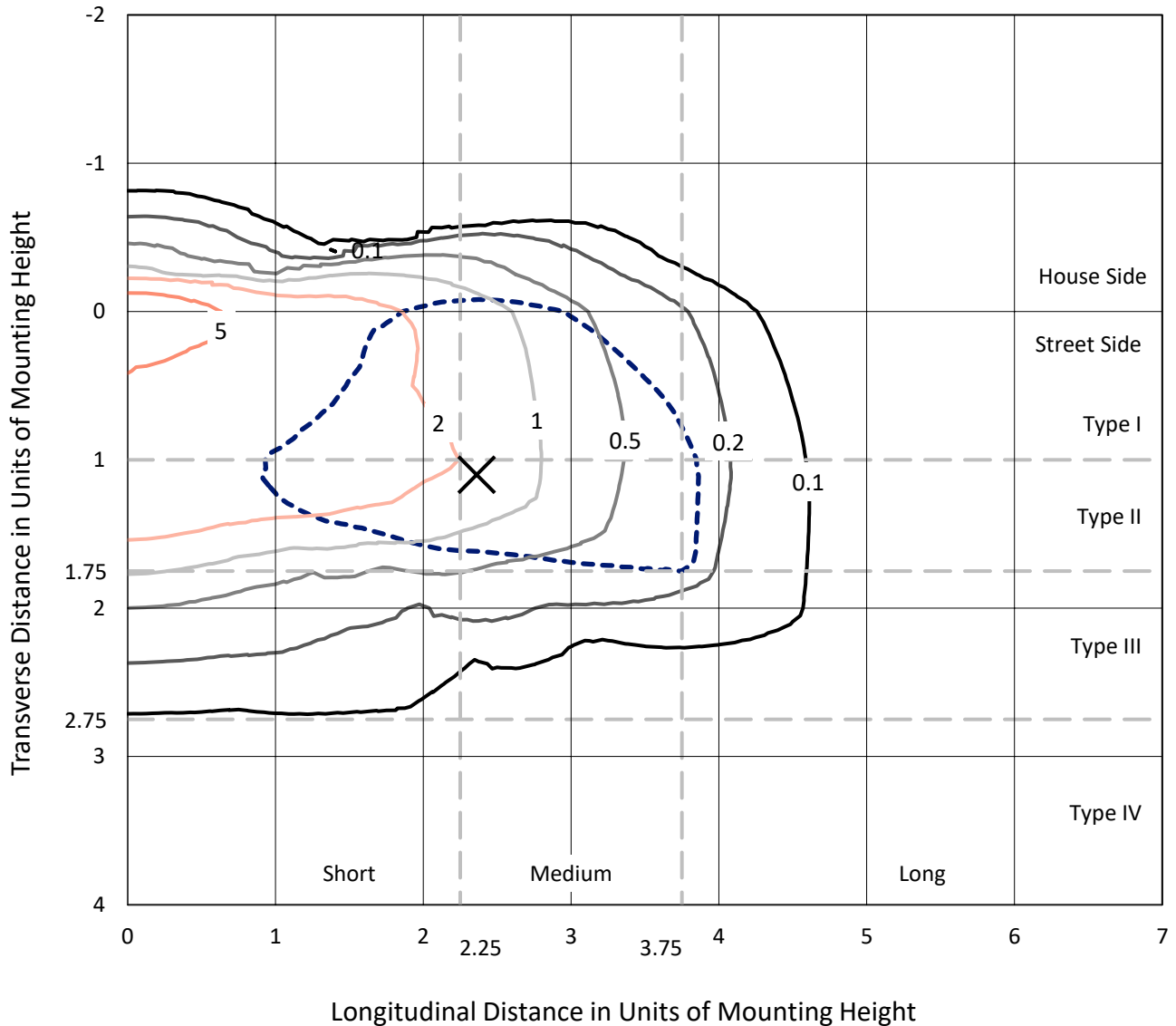
Lumens per Lamp: N/A
Luminaire Lumens: 21590.2 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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

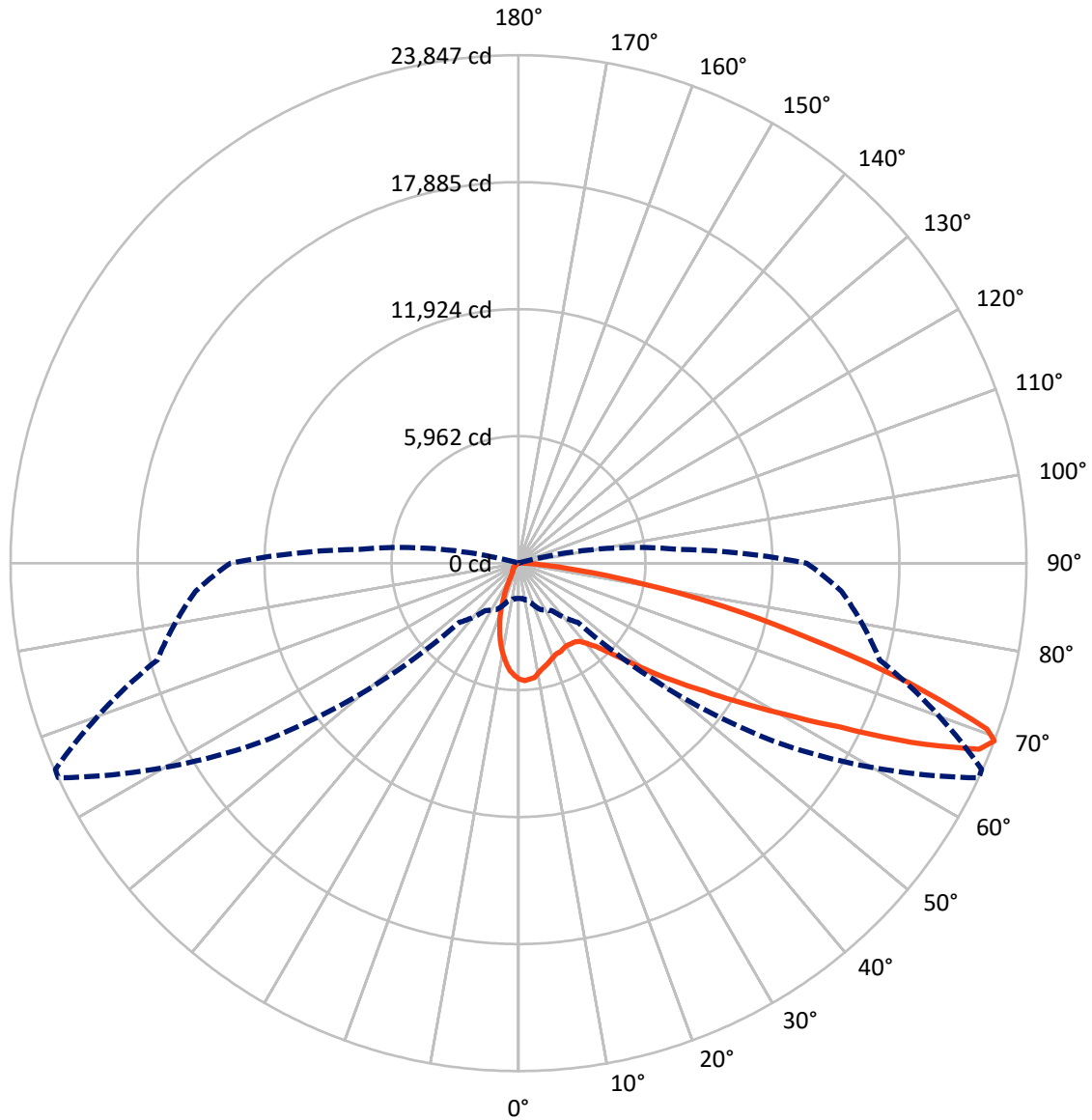
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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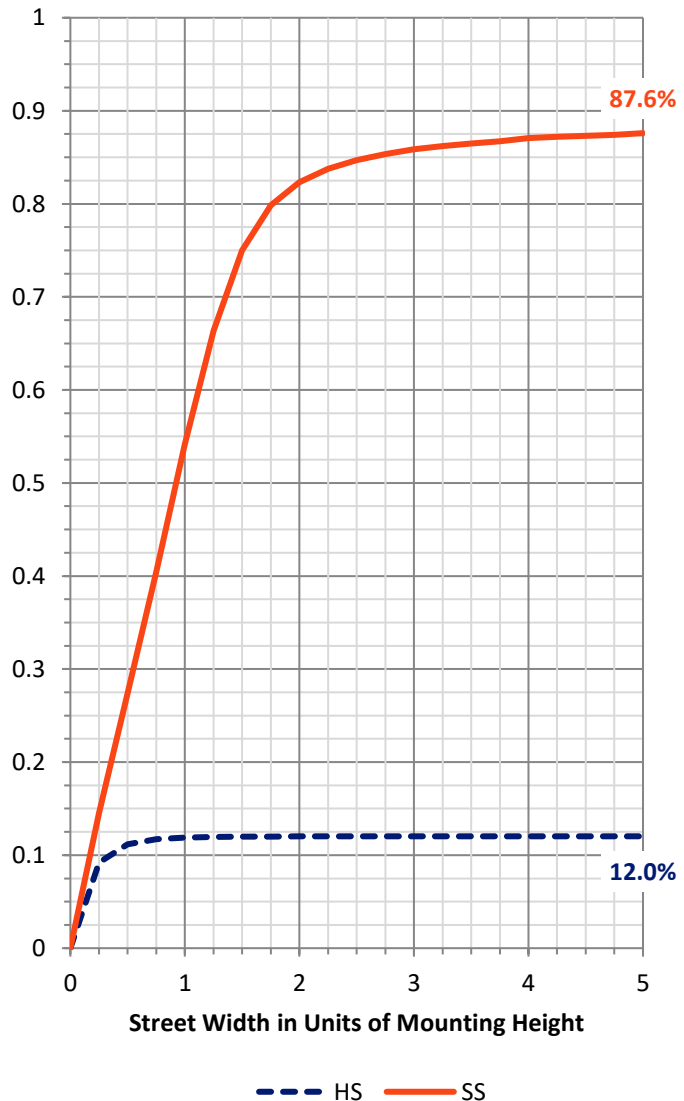
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2619.0	0.0	2619.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	18971.2	0.0	18971.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	21590.2	0.0	21590.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.4	2.1
10°-20°	974.6	4.5
20°-30°	1356.9	6.3
30°-40°	1922.9	8.9
40°-50°	3030.4	14.0
50°-60°	4917.2	22.8
60°-70°	5491.6	25.4
70°-80°	3092.4	14.3
80°-90°	358.8	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°	21590.2	100.0
0°-180°	21590.2	100.0

Coefficient of Utilization



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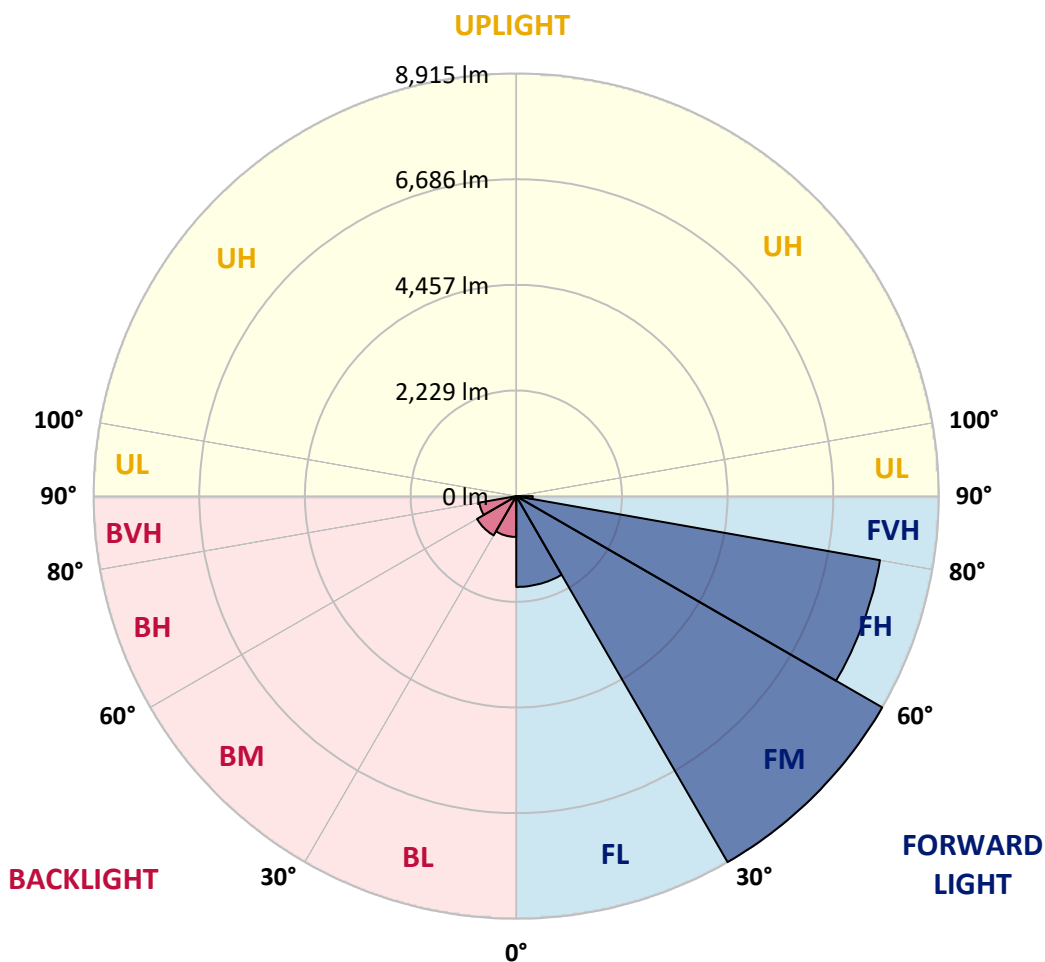
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1915.9	8.9			
FM (30°-60°)	8914.8	41.3			
FH (60°-80°)	7791.5	36.1			G4/12000
FVH (80°-90°)	348.9	1.6			G3/500
BL (0°-30°)	861.1	4.0	B2/1000		
BM (30°-60°)	955.7	4.4	B1/1000		
BH (60°-80°)	792.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.9	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4
2.5°	5242.4	5283.2	5294.9	5335.6	5356.0	5443.4	5492.9	5522.0	5507.5	5539.5	5542.4
5°	4869.6	4846.3	4907.5	4951.2	5044.4	5195.8	5350.2	5469.6	5524.9	5577.4	5568.6
7.5°	4470.6	4459.0	4520.1	4619.2	4703.6	4887.1	5134.7	5428.8	5417.2	5545.3	5583.2
10°	4196.9	4208.5	4228.9	4327.9	4453.2	4639.6	4948.3	5222.0	5283.2	5554.1	5629.8
12.5°	3946.4	3966.8	4004.6	4106.6	4252.2	4444.4	4744.4	5064.8	5158.0	5504.6	5656.0
15°	3864.8	3818.2	3894.0	3969.7	4121.1	4293.0	4546.4	4945.4	4986.1	5446.3	5699.7
17.5°	3797.8	3768.7	3803.7	3864.8	4025.0	4164.8	4403.6	4817.2	4892.9	5423.0	5693.9
20°	3818.2	3792.0	3806.6	3853.2	3926.0	4057.1	4278.4	4694.9	4776.4	5315.2	5685.1
22.5°	3876.5	3896.9	3870.7	3882.3	3905.6	3972.6	4211.4	4607.5	4677.4	5294.9	5734.6
25°	4138.6	4103.7	4068.7	4054.1	3917.3	3946.4	4191.0	4601.7	4651.2	5222.0	5693.9
27.5°	4412.4	4383.3	4368.7	4284.2	4097.8	4010.5	4193.9	4520.1	4587.1	5192.9	5644.3
30°	4744.4	4782.3	4724.0	4622.1	4362.9	4147.3	4226.0	4479.4	4572.6	5082.2	5612.3
32.5°	5093.9	5114.3	5143.4	5067.7	4732.7	4354.1	4322.1	4517.2	4523.1	5082.2	5539.5
35°	5490.0	5460.9	5536.6	5542.4	5248.3	4721.1	4505.6	4543.4	4604.6	5058.9	5513.3
37.5°	5830.7	5880.3	5967.6	6107.4	5804.5	5239.5	4791.0	4665.8	4692.0	5166.7	5533.7
40°	6203.5	6253.1	6451.1	6590.9	6419.1	5822.0	5225.0	4951.2	4971.6	5326.9	5638.5
42.5°	6614.2	6710.3	6946.2	7190.9	7144.3	6561.8	5784.1	5370.6	5361.8	5725.9	5854.0
45°	7170.5	7298.6	7554.9	7837.4	7878.2	7409.3	6529.7	5996.8	6025.9	6247.2	6299.7
47.5°	7945.2	7939.4	8189.8	8504.4	8740.3	8288.9	7421.0	6838.5	6835.5	7071.5	6960.8
50°	8693.7	8696.6	8763.6	9127.7	9739.3	9509.2	8524.8	7956.8	7924.8	8041.3	7863.6
52.5°	9040.3	8999.5	8950.0	9389.8	10508.2	11047.0	9922.8	9223.8	9197.6	9127.7	9081.1
55°	8676.2	8690.8	8687.9	9145.1	10913.0	12669.2	11716.8	10618.8	10575.1	10356.7	10420.8
57.5°	7508.3	7461.7	7563.7	8277.2	10449.9	13775.9	14282.7	12378.0	12264.4	11539.2	11393.5
60°	5589.0	5603.6	5688.0	6529.7	9299.5	14008.9	16737.9	14442.9	13953.6	12372.1	12171.2
62.5°	3902.7	3873.6	3905.6	4377.4	6649.1	13076.9	18398.0	16953.4	16481.6	13318.7	13202.2
65°	2793.0	2755.2	2883.3	3171.7	3993.0	9998.5	18633.9	20296.9	19874.6	14830.3	14550.7
67.5°	2009.6	2003.8	2152.3	2676.6	2836.7	5757.9	16886.4	23325.9	23069.6	16624.3	15372.0
69°	1663.0	1665.9	1808.6	2397.0	2708.6	3931.8	14530.3	23847.2	23800.6	17550.5	15217.6
70°	1450.4	1462.1	1628.1	2230.9	2656.2	3232.8	12526.5	23334.6	23288.0	17731.1	14707.9
72.5°	894.1	902.9	1121.3	1788.3	2525.1	2638.7	7490.8	19091.2	19251.4	16903.9	12672.1
75°	428.1	431.0	588.3	1293.1	2434.8	2501.8	4013.4	14087.6	14425.4	13647.8	9902.4
77.5°	227.2	227.2	282.5	687.3	1971.7	2353.3	2382.4	9937.3	10216.9	8629.6	5629.8
80°	113.6	116.5	171.8	358.2	1223.2	2306.7	1861.1	5926.9	6078.3	3521.2	1753.3
82.5°	43.7	46.6	81.5	215.5	634.9	1948.4	1633.9	2915.4	2877.5	824.2	428.1
85°	5.8	5.8	29.1	128.1	270.9	859.2	1348.5	1217.4	1176.6	180.6	206.8
87.5°	0.0	0.0	5.8	37.9	81.5	250.5	521.3	334.9	372.8	49.5	101.9
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°	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4	5443.4
2.5°	5527.9	5466.7	5373.5	5283.2	5187.1	5070.6	4942.4	4895.8	4814.3	4808.5	4855.1
5°	5522.0	5423.0	5259.9	5067.7	4793.9	4587.1	4362.9	4199.8	4074.5	3993.0	4013.4
7.5°	5551.2	5431.7	5149.2	4735.7	4383.3	3972.6	3626.0	3387.2	3168.8	3061.0	3049.3
10°	5504.6	5344.4	4930.8	4351.2	3832.8	3259.0	2752.3	2431.9	2105.7	1986.3	1992.1
12.5°	5530.8	5306.5	4694.9	3955.1	3241.6	2496.0	1890.2	1453.3	1147.5	1048.5	1036.8
15°	5548.2	5225.0	4467.7	3480.4	2586.3	1700.9	1095.1	824.2	728.1	710.6	707.7
17.5°	5481.3	5125.9	4147.3	3011.5	1916.4	1033.9	728.1	672.8	655.3	643.7	637.8
20°	5478.3	5067.7	3870.7	2530.9	1278.6	704.8	629.1	608.7	582.5	573.8	573.8
22.5°	5428.8	4945.4	3538.6	2003.8	815.5	605.8	565.0	533.0	503.9	492.2	489.3
25°	5414.3	4802.6	3227.0	1505.7	620.4	541.7	500.9	454.3	419.4	401.9	393.2
27.5°	5373.5	4680.3	2912.5	1060.1	541.7	483.5	431.0	381.5	340.8	314.5	311.6
30°	5227.9	4552.2	2563.0	733.9	492.2	428.1	369.9	311.6	270.9	253.4	247.6
32.5°	5166.7	4432.8	2181.4	565.0	448.5	378.6	311.6	259.2	227.2	209.7	206.8
35°	5093.9	4258.0	1811.6	492.2	407.7	329.1	262.1	218.4	192.2	177.7	177.7
37.5°	5102.6	4118.2	1465.0	445.6	364.1	282.5	224.3	186.4	163.1	148.5	148.5
40°	5076.4	4007.5	1138.8	404.8	323.3	241.7	189.3	157.3	136.9	122.3	119.4
42.5°	5195.8	3978.4	859.2	369.9	282.5	206.8	163.1	134.0	113.6	96.1	96.1
45°	5396.8	4025.0	669.9	337.8	241.7	177.7	139.8	110.7	90.3	78.6	75.7
47.5°	5932.7	4208.5	524.2	311.6	206.8	154.4	116.5	90.3	72.8	61.2	58.2
50°	6710.3	4619.2	445.6	273.8	174.7	131.1	96.1	69.9	58.2	46.6	43.7
52.5°	7817.0	5309.4	404.8	241.7	145.6	107.8	75.7	55.3	43.7	34.9	32.0
55°	9022.8	6171.5	367.0	203.9	122.3	87.4	61.2	43.7	32.0	23.3	20.4
57.5°	9963.5	6917.1	334.9	168.9	99.0	69.9	46.6	32.0	23.3	14.6	11.6
60°	10991.6	7441.3	294.2	134.0	81.5	52.4	34.9	23.3	17.5	8.7	8.7
62.5°	12051.8	8055.9	241.7	104.8	64.1	40.8	26.2	17.5	11.6	2.9	2.9
65°	13525.5	8536.4	186.4	81.5	49.5	29.1	20.4	14.6	5.8	0.0	0.0
67.5°	13941.9	8300.5	136.9	64.1	34.9	20.4	14.6	8.7	2.9	0.0	0.0
69°	13525.5	7476.3	119.4	55.3	29.1	17.5	11.6	5.8	2.9	0.0	0.0
70°	12765.3	6835.5	104.8	46.6	26.2	17.5	8.7	5.8	2.9	0.0	0.0
72.5°	10677.1	5242.4	81.5	34.9	20.4	14.6	8.7	5.8	0.0	0.0	0.0
75°	7831.6	3238.7	61.2	26.2	17.5	11.6	8.7	5.8	0.0	0.0	0.0
77.5°	4196.9	1182.5	43.7	17.5	11.6	8.7	8.7	5.8	0.0	0.0	0.0
80°	1150.4	349.5	32.0	11.6	8.7	5.8	5.8	2.9	0.0	0.0	0.0
82.5°	314.5	90.3	20.4	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0
85°	168.9	34.9	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	87.4	11.6	8.7	5.8	5.8	2.9	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)