

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: P483950

Luminaire Tested: **IFLD-M-SA4C-730-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483950  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-730-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21308.7 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

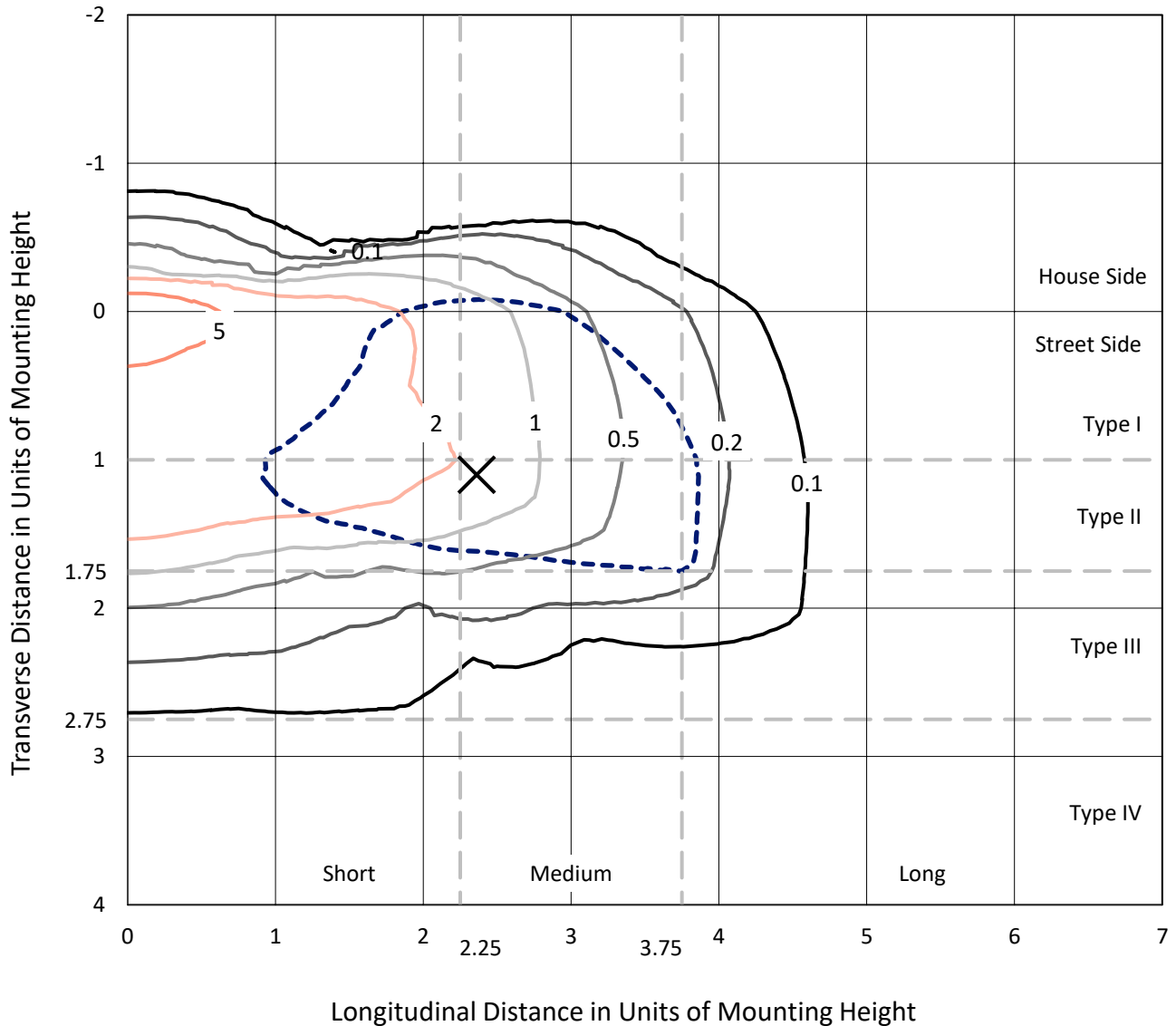
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

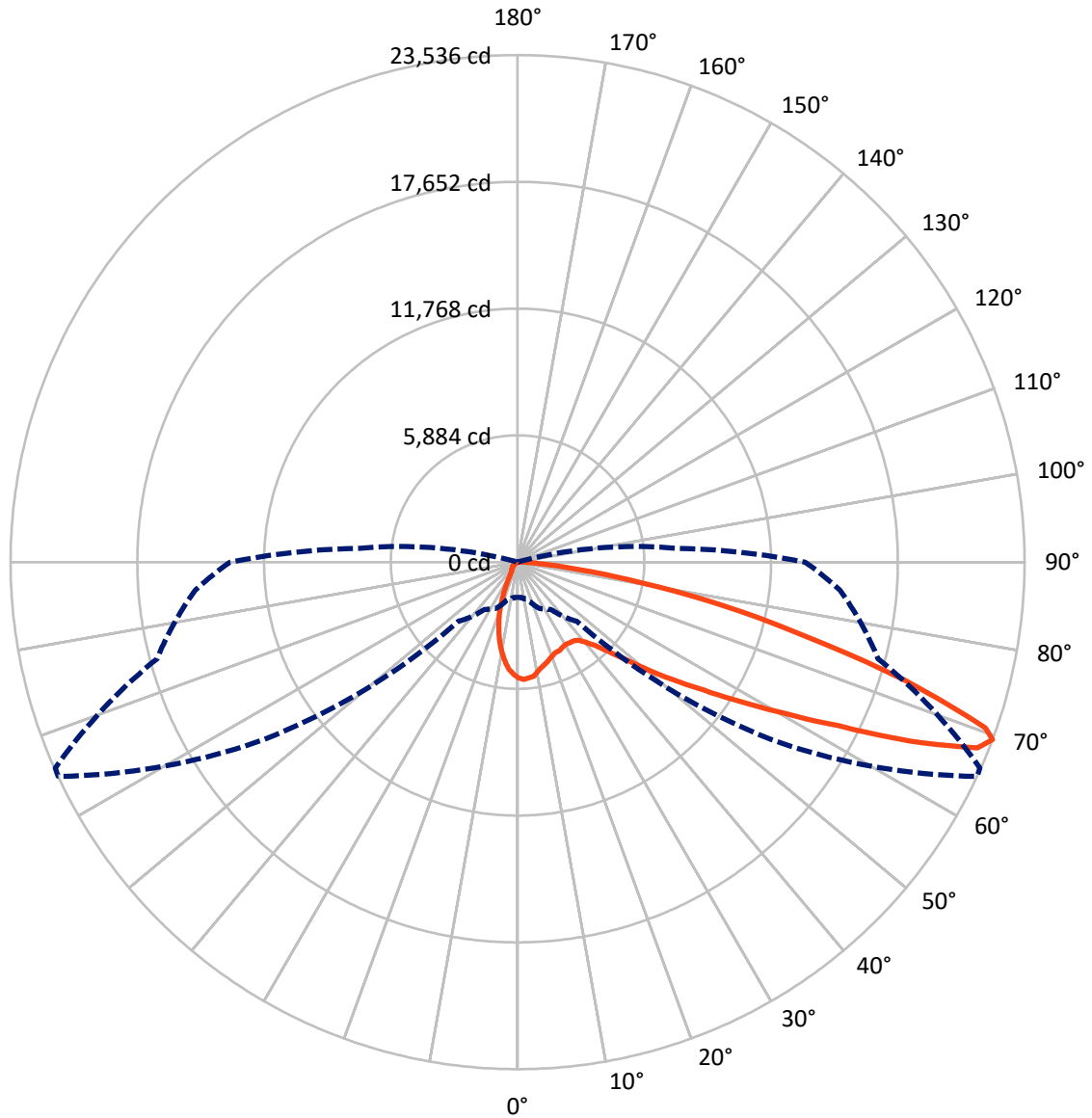
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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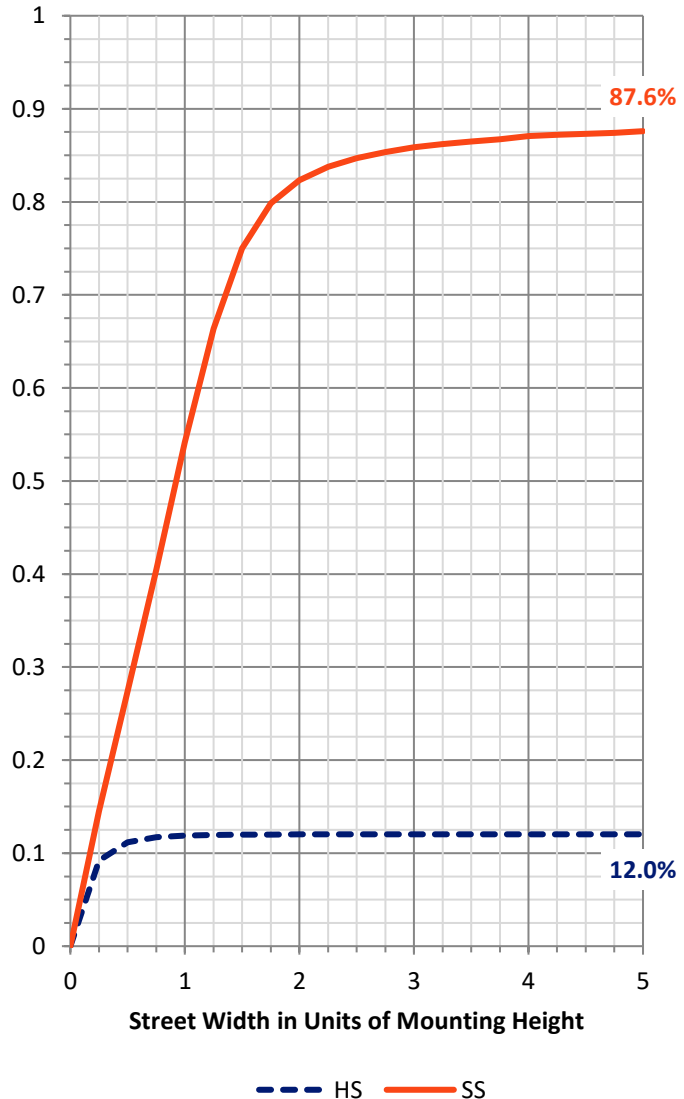
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2584.9	0.0	2584.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	18723.9	0.0	18723.9
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	21308.7	0.0	21308.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.6	2.1
10°-20°	961.9	4.5
20°-30°	1339.2	6.3
30°-40°	1897.8	8.9
40°-50°	2990.9	14.0
50°-60°	4853.1	22.8
60°-70°	5420.0	25.4
70°-80°	3052.1	14.3
80°-90°	354.1	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°	21308.7	100.0
0°-180°	21308.7	100.0

**Coefficient of Utilization**

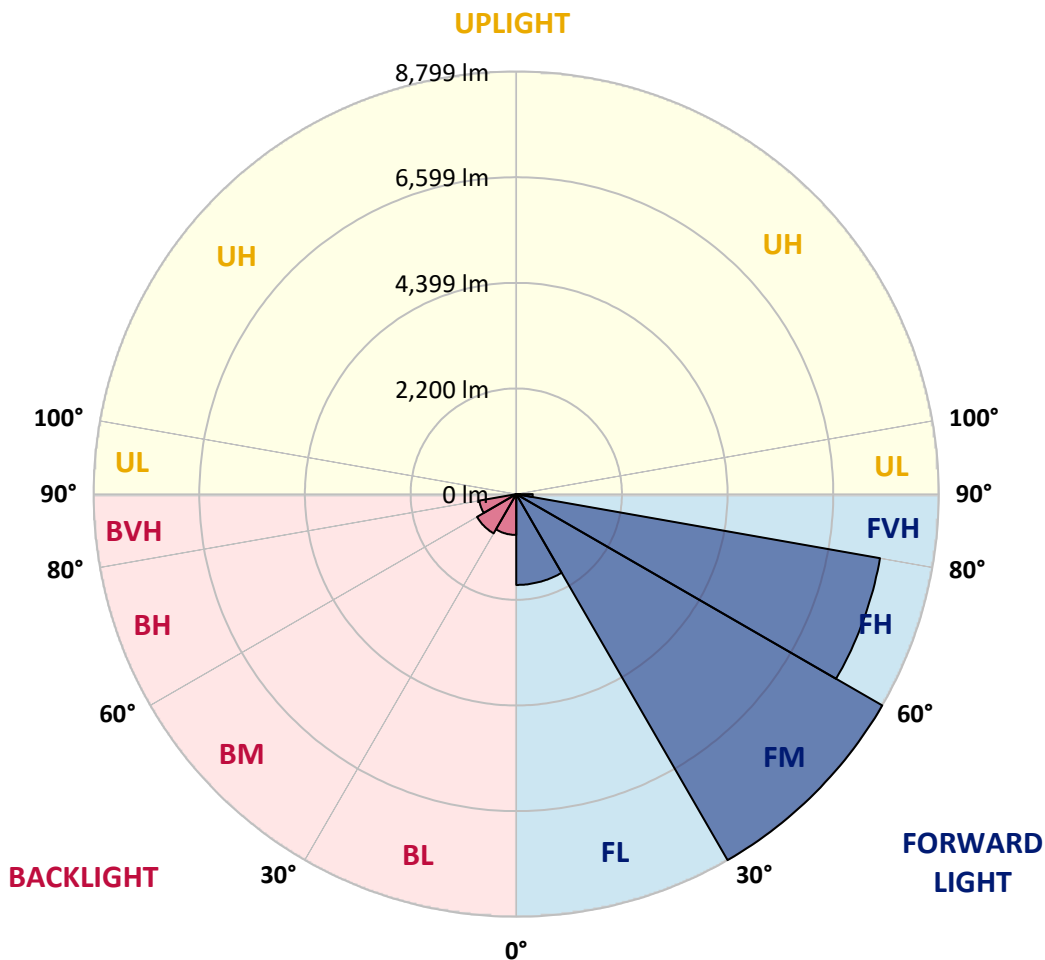


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1890.9	8.9			
FM (30°-60°)	8798.6	41.3			
FH (60°-80°)	7690.0	36.1			G4/12000
FVH (80°-90°)	344.4	1.6			G3/500
BL (0°-30°)	849.8	4.0	B2/1000		
BM (30°-60°)	943.2	4.4	B1/1000		
BH (60°-80°)	782.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.8	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°	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4
2.5°	5174.1	5214.3	5225.8	5266.1	5286.2	5372.4	5421.3	5450.0	5435.7	5467.3	5470.2
5°	4806.2	4783.2	4843.5	4886.6	4978.6	5128.1	5280.4	5398.3	5452.9	5504.7	5496.0
7.5°	4412.3	4400.8	4461.2	4558.9	4642.3	4823.4	5067.7	5358.1	5346.6	5473.0	5510.4
10°	4142.1	4153.6	4173.8	4271.5	4395.1	4579.1	4883.8	5154.0	5214.3	5481.7	5556.4
12.5°	3894.9	3915.1	3952.4	4053.0	4196.8	4386.5	4682.5	4998.7	5090.7	5432.8	5582.3
15°	3814.5	3768.5	3843.2	3917.9	4067.4	4237.0	4487.1	4880.9	4921.1	5375.3	5625.4
17.5°	3748.3	3719.6	3754.1	3814.5	3972.5	4110.5	4346.2	4754.4	4829.1	5352.3	5619.6
20°	3768.5	3742.6	3757.0	3803.0	3874.8	4004.2	4222.6	4633.7	4714.2	5245.9	5611.0
22.5°	3825.9	3846.1	3820.2	3831.7	3854.7	3920.8	4156.5	4547.4	4616.4	5225.8	5659.9
25°	4084.7	4050.2	4015.7	4001.3	3866.2	3894.9	4136.4	4541.7	4590.6	5154.0	5619.6
27.5°	4354.9	4326.1	4311.7	4228.4	4044.4	3958.2	4139.3	4461.2	4527.3	5125.2	5570.8
30°	4682.5	4719.9	4662.4	4561.8	4306.0	4093.3	4170.9	4421.0	4513.0	5016.0	5539.1
32.5°	5027.5	5047.6	5076.4	5001.6	4671.1	4297.4	4265.7	4458.3	4464.1	5016.0	5467.3
35°	5418.4	5389.7	5464.4	5470.2	5179.8	4659.6	4446.8	4484.2	4544.6	4993.0	5441.4
37.5°	5754.7	5803.6	5889.8	6027.8	5728.9	5171.2	4728.5	4604.9	4630.8	5099.4	5461.5
40°	6122.7	6171.5	6367.0	6505.0	6335.4	5746.1	5156.8	4886.6	4906.8	5257.4	5565.0
42.5°	6528.0	6622.8	6855.7	7097.1	7051.1	6476.2	5708.7	5300.6	5291.9	5651.3	5777.7
45°	7077.0	7203.5	7456.4	7735.3	7775.5	7312.7	6444.6	5918.6	5947.3	6165.8	6217.5
47.5°	7841.6	7835.9	8083.1	8393.5	8626.4	8180.8	7324.2	6749.3	6746.4	6979.3	6870.0
50°	8580.4	8583.2	8649.3	9008.7	9612.3	9385.2	8413.6	7853.1	7821.5	7936.5	7761.1
52.5°	8922.4	8882.2	8833.3	9267.4	10371.2	10903.0	9793.4	9103.5	9077.6	9008.7	8962.7
55°	8563.1	8577.5	8574.6	9025.9	10770.7	12504.0	11564.1	10480.4	10437.3	10221.7	10284.9
57.5°	7410.4	7364.5	7465.1	8169.3	10313.7	13596.4	14096.5	12216.6	12104.5	11388.7	11245.0
60°	5516.2	5530.5	5613.9	6444.6	9178.3	13826.3	16519.7	14254.6	13771.7	12210.8	12012.5
62.5°	3851.8	3823.1	3854.7	4320.4	6562.5	12906.5	18158.2	16732.4	16266.8	13145.1	13030.1
65°	2756.6	2719.3	2845.7	3130.3	3940.9	9868.1	18391.0	20032.3	19615.5	14636.9	14361.0
67.5°	1983.4	1977.7	2124.3	2641.7	2799.8	5682.9	16666.3	23021.8	22768.9	16407.6	15171.6
69°	1641.3	1644.2	1785.1	2365.7	2673.3	3880.6	14340.8	23536.3	23490.4	17321.7	15019.2
70°	1431.5	1443.0	1606.8	2201.9	2621.5	3190.7	12363.2	23030.4	22984.4	17499.9	14516.2
72.5°	882.5	891.1	1106.7	1764.9	2492.2	2604.3	7393.2	18842.3	19000.4	16683.6	12506.9
75°	422.6	425.4	580.6	1276.3	2403.1	2469.2	3961.1	13903.9	14237.4	13469.9	9773.3
77.5°	224.2	224.2	278.8	678.4	1946.0	2322.6	2351.3	9807.8	10083.7	8517.1	5556.4
80°	112.1	115.0	169.6	353.6	1207.3	2276.6	1836.8	5849.6	5999.1	3475.3	1730.4
82.5°	43.1	46.0	80.5	212.7	626.6	1923.0	1612.6	2877.4	2840.0	813.5	422.6
85°	5.7	5.7	28.7	126.5	267.3	848.0	1330.9	1201.5	1161.3	178.2	204.1
87.5°	0.0	0.0	5.7	37.4	80.5	247.2	514.5	330.6	367.9	48.9	100.6
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°	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4	5372.4
2.5°	5455.8	5395.4	5303.4	5214.3	5119.5	5004.5	4878.0	4832.0	4751.5	4745.8	4791.8
5°	5450.0	5352.3	5191.3	5001.6	4731.4	4527.3	4306.0	4145.0	4021.4	3940.9	3961.1
7.5°	5478.8	5360.9	5082.1	4673.9	4326.1	3920.8	3578.7	3343.0	3127.4	3021.1	3009.6
10°	5432.8	5274.7	4866.5	4294.5	3782.8	3216.6	2716.4	2400.2	2078.3	1960.4	1966.2
12.5°	5458.7	5237.3	4633.7	3903.6	3199.3	2463.4	1865.5	1434.4	1132.6	1034.8	1023.3
15°	5475.9	5156.8	4409.5	3435.0	2552.5	1678.7	1080.8	813.5	718.6	701.4	698.5
17.5°	5409.8	5059.1	4093.3	2972.2	1891.4	1020.4	718.6	664.0	646.8	635.3	629.5
20°	5406.9	5001.6	3820.2	2497.9	1261.9	695.6	620.9	600.8	574.9	566.3	566.3
22.5°	5358.1	4880.9	3492.5	1977.7	804.9	597.9	557.7	526.0	497.3	485.8	482.9
25°	5343.7	4740.0	3184.9	1486.1	612.3	534.7	494.4	448.4	413.9	396.7	388.1
27.5°	5303.4	4619.3	2874.5	1046.3	534.7	477.2	425.4	376.6	336.3	310.4	307.6
30°	5159.7	4492.8	2529.6	724.4	485.8	422.6	365.1	307.6	267.3	250.1	244.3
32.5°	5099.4	4375.0	2153.0	557.7	442.7	373.7	307.6	255.8	224.2	207.0	204.1
35°	5027.5	4202.5	1787.9	485.8	402.4	324.8	258.7	215.6	189.7	175.3	175.3
37.5°	5036.1	4064.5	1445.9	439.8	359.3	278.8	221.3	184.0	161.0	146.6	146.6
40°	5010.2	3955.3	1123.9	399.6	319.1	238.6	186.8	155.2	135.1	120.7	117.9
42.5°	5128.1	3926.6	848.0	365.1	278.8	204.1	161.0	132.2	112.1	94.9	94.9
45°	5326.4	3972.5	661.1	333.4	238.6	175.3	138.0	109.2	89.1	77.6	74.7
47.5°	5855.3	4153.6	517.4	307.6	204.1	152.3	115.0	89.1	71.9	60.4	57.5
50°	6622.8	4558.9	439.8	270.2	172.5	129.4	94.9	69.0	57.5	46.0	43.1
52.5°	7715.1	5240.2	399.6	238.6	143.7	106.4	74.7	54.6	43.1	34.5	31.6
55°	8905.2	6091.1	362.2	201.2	120.7	86.2	60.4	43.1	31.6	23.0	20.1
57.5°	9833.6	6826.9	330.6	166.7	97.7	69.0	46.0	31.6	23.0	14.4	11.5
60°	10848.3	7344.3	290.3	132.2	80.5	51.7	34.5	23.0	17.2	8.6	8.6
62.5°	11894.7	7950.8	238.6	103.5	63.2	40.2	25.9	17.2	11.5	2.9	2.9
65°	13349.1	8425.1	184.0	80.5	48.9	28.7	20.1	14.4	5.7	0.0	0.0
67.5°	13760.2	8192.3	135.1	63.2	34.5	20.1	14.4	8.6	2.9	0.0	0.0
69°	13349.1	7378.8	117.9	54.6	28.7	17.2	11.5	5.7	2.9	0.0	0.0
70°	12598.9	6746.4	103.5	46.0	25.9	17.2	8.6	5.7	2.9	0.0	0.0
72.5°	10537.9	5174.1	80.5	34.5	20.1	14.4	8.6	5.7	0.0	0.0	0.0
75°	7729.5	3196.4	60.4	25.9	17.2	11.5	8.6	5.7	0.0	0.0	0.0
77.5°	4142.1	1167.0	43.1	17.2	11.5	8.6	8.6	5.7	0.0	0.0	0.0
80°	1135.4	344.9	31.6	11.5	8.6	5.7	5.7	2.9	0.0	0.0	0.0
82.5°	310.4	89.1	20.1	11.5	8.6	5.7	2.9	0.0	0.0	0.0	0.0
85°	166.7	34.5	11.5	8.6	5.7	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	86.2	11.5	8.6	5.7	5.7	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)