

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: P480011

Luminaire Tested: **IFLD-M-SA4C-727-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480011  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-727-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

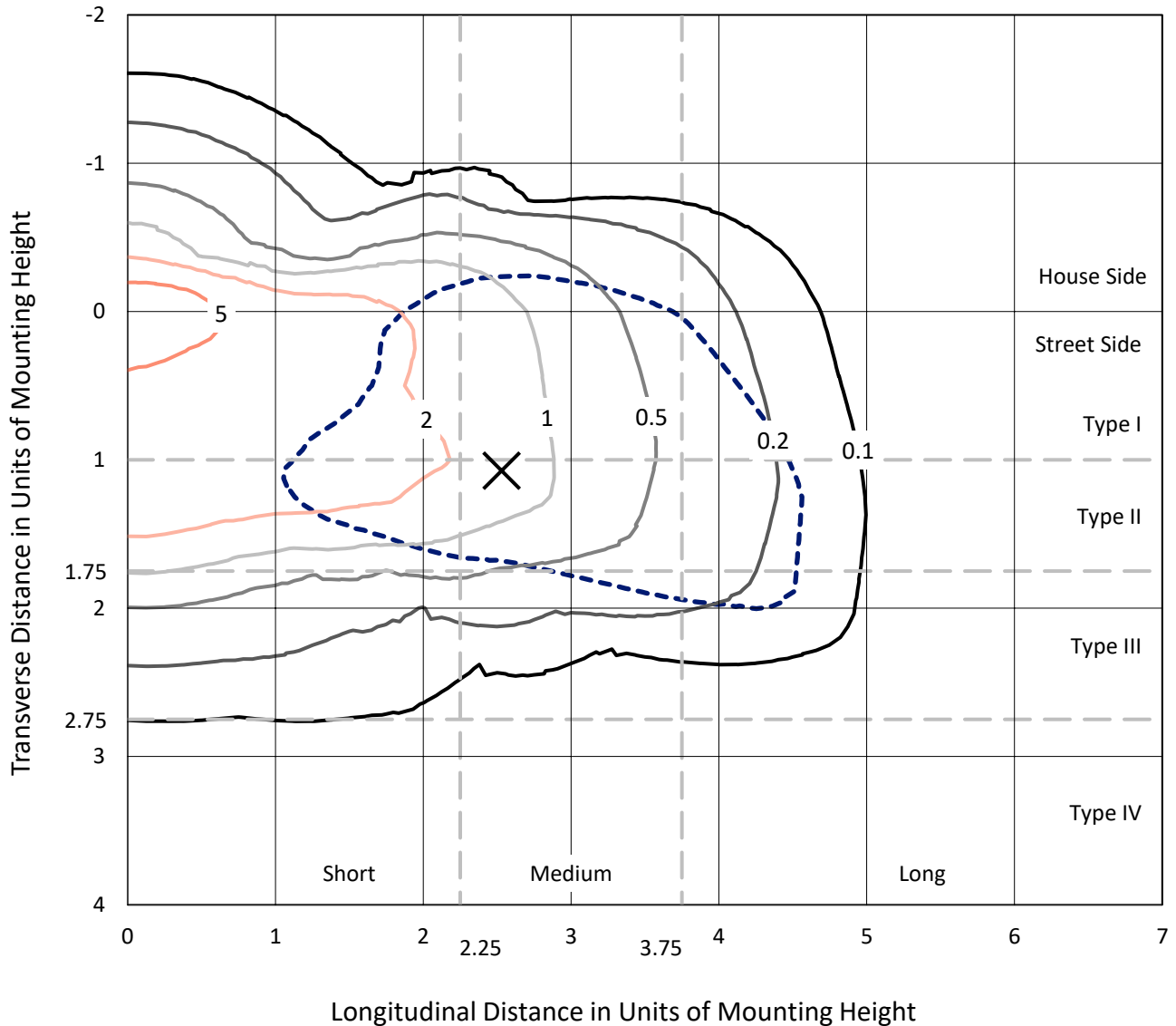
Lumens per Lamp: N/A  
Luminaire Lumens: 23707.5 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

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

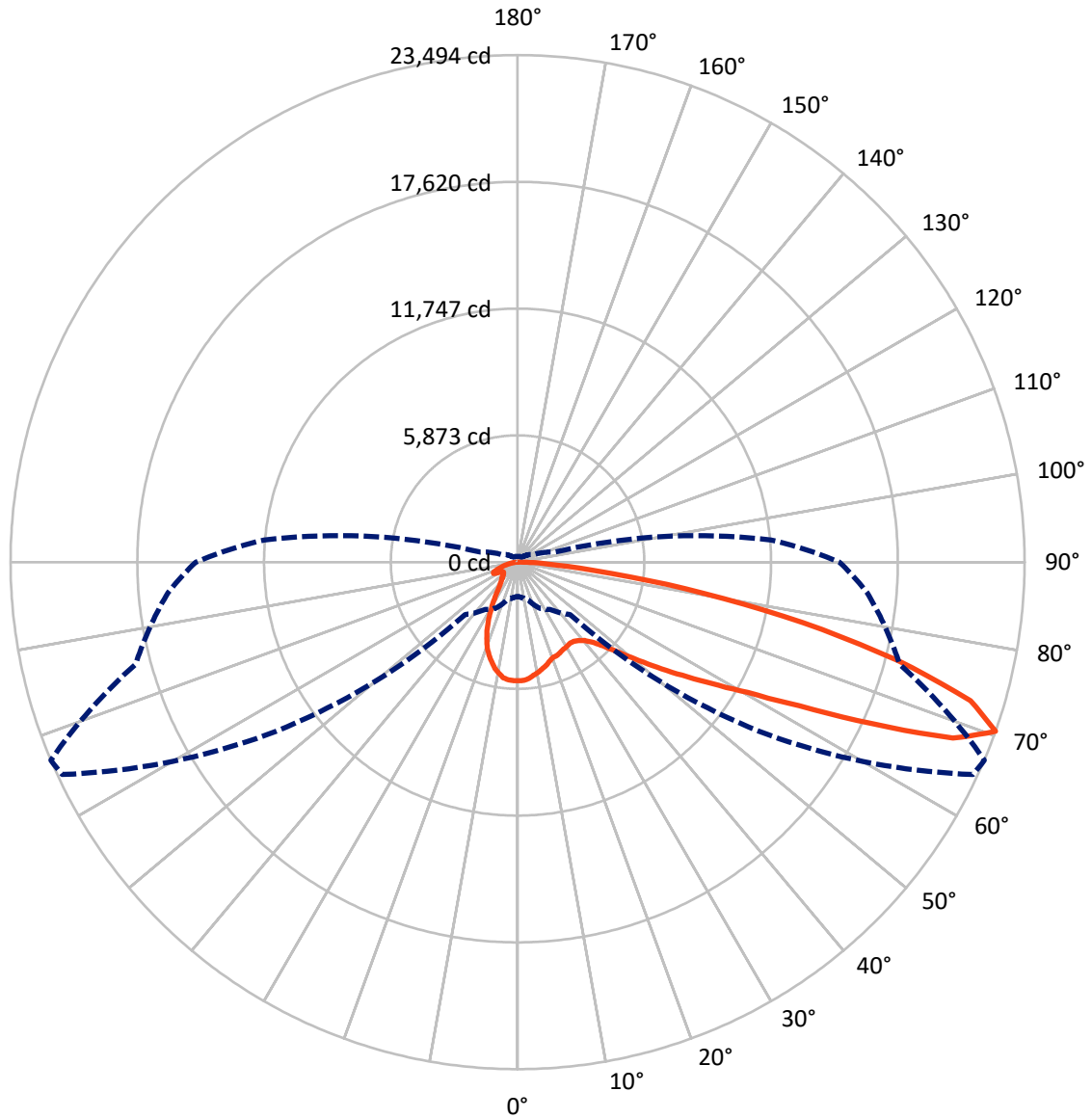
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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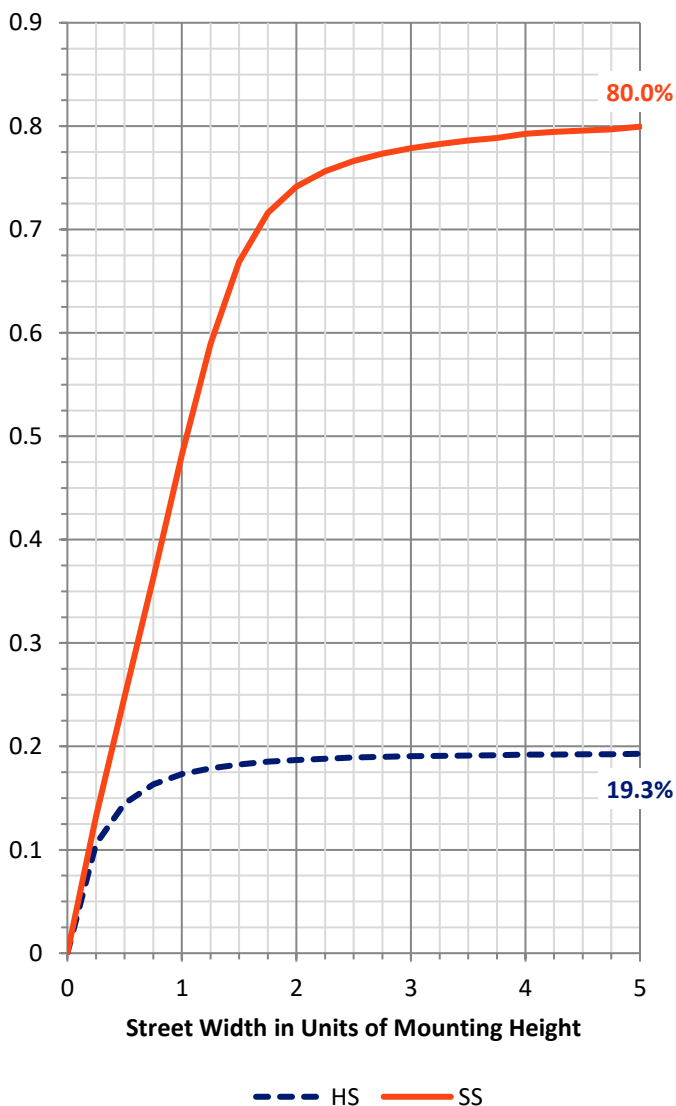
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4617.3	0.0	4617.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	19090.2	0.0	19090.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	23707.5	0.0	23707.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.9	2.0
10°-20°	1146.8	4.8
20°-30°	1548.7	6.5
30°-40°	2072.3	8.7
40°-50°	3047.3	12.9
50°-60°	4750.0	20.0
60°-70°	5851.2	24.7
70°-80°	4134.4	17.4
80°-90°	677.7	2.9
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°	23707.5	100.0
0°-180°	23707.5	100.0

**Coefficient of Utilization**



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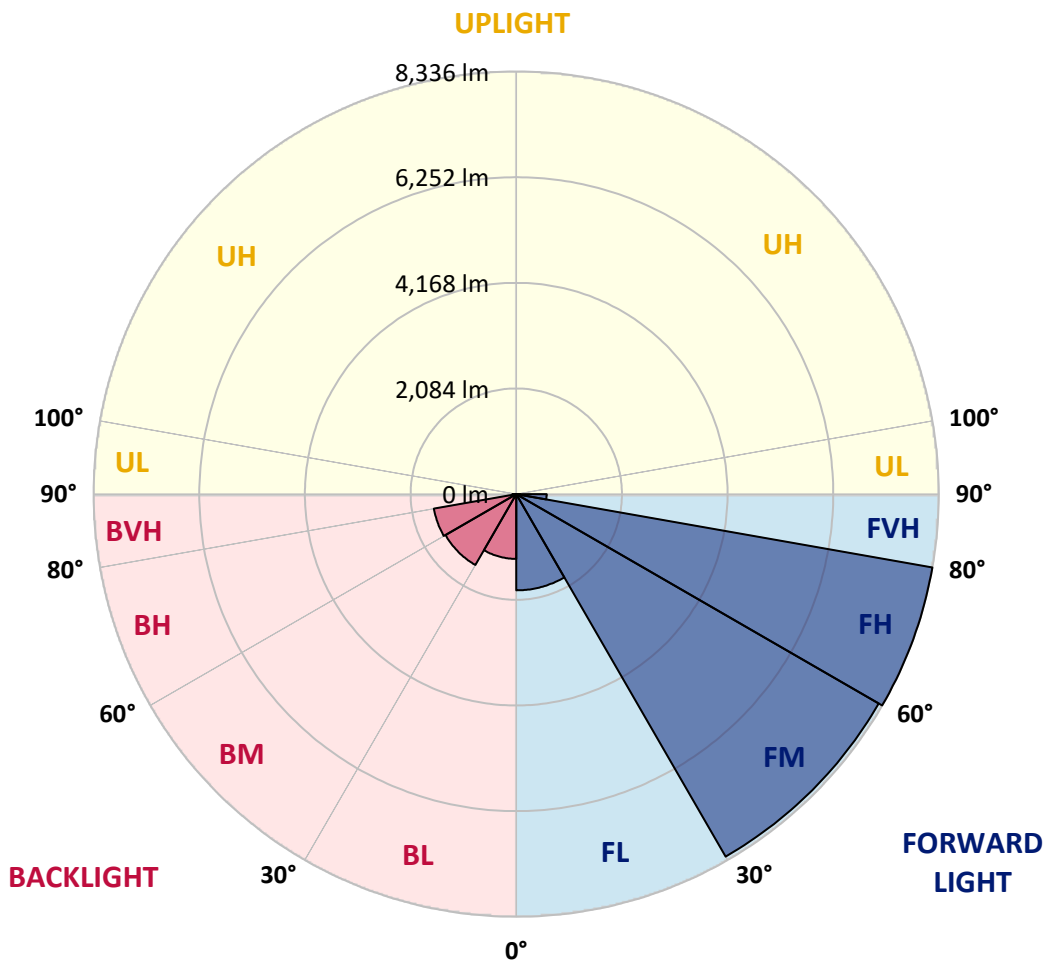
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1897.6	8.0			
FM (30°-60°)	8256.8	34.8			
FH (60°-80°)	8336.3	35.2			G4/12000
FVH (80°-90°)	599.5	2.5			G4/750
BL (0°-30°)	1276.8	5.4	B3/2500		
BM (30°-60°)	1612.9	6.8	B2/2500		
BH (60°-80°)	1649.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	78.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2
2.5°	5110.2	5168.0	5189.0	5220.5	5301.8	5362.2	5399.0	5441.0	5490.8	5532.8	5559.1
5°	4753.3	4784.8	4834.7	4868.8	4971.1	5133.9	5244.1	5422.6	5417.3	5483.0	5582.7
7.5°	4406.8	4438.3	4462.0	4530.2	4677.2	4824.2	5026.3	5315.0	5294.0	5446.2	5601.1
10°	4191.6	4168.0	4175.9	4291.3	4406.8	4572.2	4826.8	5120.7	5196.9	5433.1	5653.6
12.5°	3989.5	3963.3	4026.3	4099.7	4241.5	4391.1	4695.5	4960.6	5076.1	5385.8	5677.2
15°	3863.5	3845.2	3923.9	3955.4	4123.4	4301.8	4517.1	4839.9	4965.9	5328.1	5640.4
17.5°	3792.7	3808.4	3837.3	3905.5	4013.1	4165.4	4401.6	4758.5	4813.7	5257.2	5632.6
20°	3805.8	3824.2	3826.8	3855.7	3929.1	4047.3	4288.7	4671.9	4708.7	5244.1	5653.6
22.5°	3910.8	3884.5	3895.0	3876.6	3897.6	3989.5	4202.1	4556.4	4698.2	5133.9	5608.9
25°	4068.3	4031.5	4026.3	3963.3	3923.9	3950.1	4186.4	4527.6	4619.4	5099.7	5606.3
27.5°	4346.5	4291.3	4291.3	4196.9	4036.8	3994.8	4141.7	4480.3	4561.7	5068.3	5545.9
30°	4614.2	4614.2	4616.8	4482.9	4304.5	4097.1	4160.1	4462.0	4514.4	4973.8	5464.6
32.5°	4939.6	4931.8	4918.6	4853.0	4577.4	4267.7	4249.4	4438.3	4464.6	4942.3	5441.0
35°	5257.2	5236.2	5338.6	5280.9	5000.0	4601.1	4341.2	4448.8	4506.6	4895.0	5367.5
37.5°	5496.1	5509.2	5721.8	5758.5	5517.1	4979.0	4601.1	4553.8	4608.9	4963.3	5367.5
40°	5805.8	5858.3	6057.8	6181.1	6034.1	5477.7	5013.1	4729.7	4769.0	5115.5	5483.0
42.5°	6212.6	6257.2	6511.8	6671.9	6629.9	6112.9	5420.0	5097.1	5065.6	5370.1	5656.2
45°	6750.7	6758.5	7015.8	7236.2	7322.9	6776.9	6065.6	5561.7	5535.4	5808.4	5973.8
47.5°	7391.1	7383.2	7543.3	7779.5	8013.1	7569.6	6808.4	6267.7	6173.2	6435.7	6501.3
50°	8010.5	7976.4	8013.1	8315.0	8763.8	8561.7	7711.3	7131.3	7036.8	7181.1	7294.0
52.5°	8351.7	8393.7	8294.0	8692.9	9561.7	9734.9	8908.2	8162.7	8081.4	8152.2	8349.1
55°	8112.9	8199.5	8133.9	8511.8	9910.8	11165.4	10456.7	9357.0	9252.0	9225.7	9548.6
57.5°	7097.1	7254.6	7267.7	7866.2	9790.0	12273.0	12635.2	10766.4	10608.9	10341.2	10674.6
60°	5448.8	5606.3	5727.0	6435.7	8755.9	12934.4	15160.1	12771.7	12252.0	11559.1	11758.6
62.5°	3818.9	3926.5	4047.3	4482.9	6750.7	12546.0	17343.9	15595.8	14637.8	12842.5	13091.9
65°	2782.2	2866.1	2989.5	3246.7	4147.0	10380.6	18357.0	18950.2	18042.0	14475.1	14443.6
67.5°	2094.5	2147.0	2309.7	2721.8	2874.0	6412.1	17307.1	22493.5	21758.6	16288.8	15530.2
70°	1585.3	1629.9	1782.2	2346.5	2685.0	3438.3	13653.6	23283.5	23493.5	18322.9	16259.9
72.5°	1091.9	1141.7	1312.3	1955.4	2556.4	2727.0	8569.6	21152.3	21947.6	19160.1	15477.7
75°	669.3	703.4	803.2	1482.9	2538.1	2666.7	4716.5	17333.4	18175.9	17703.5	13540.7
77.5°	472.4	469.8	488.2	868.8	2199.5	2682.4	2908.1	12700.8	13519.7	13047.3	9189.0
80°	343.8	346.5	364.8	519.7	1493.4	2727.0	2291.3	8506.6	8750.7	6803.2	3624.7
82.5°	207.3	217.8	262.5	351.7	897.6	2461.9	2118.1	4727.0	4422.6	2183.7	997.4
85°	110.2	110.2	154.9	223.1	477.7	1837.3	2039.4	2249.3	1884.5	677.2	370.1
87.5°	26.2	26.2	44.6	89.2	191.6	879.3	1391.1	895.0	716.5	228.3	152.2
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°	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2	5488.2
2.5°	5548.6	5517.1	5556.4	5477.7	5414.7	5417.3	5320.2	5315.0	5301.8	5233.6	5257.2
5°	5611.6	5585.3	5540.7	5454.1	5315.0	5175.9	5091.9	4984.3	4939.6	4916.0	4926.5
7.5°	5671.9	5624.7	5496.1	5375.3	5160.1	4897.6	4745.4	4601.1	4417.3	4396.3	4359.6
10°	5687.7	5587.9	5422.6	5165.4	4879.3	4587.9	4241.5	3973.8	3832.0	3721.8	3679.8
12.5°	5664.1	5622.1	5304.5	4973.8	4540.7	4084.0	3679.8	3301.8	3039.4	2902.9	2866.1
15°	5661.4	5587.9	5173.2	4682.4	4128.6	3532.8	2958.0	2503.9	2228.4	2115.5	2115.5
17.5°	5664.1	5488.2	5018.4	4388.5	3643.1	2837.3	2204.7	1832.0	1679.8	1664.0	1677.2
20°	5611.6	5414.7	4855.7	4042.0	3034.1	2131.2	1601.1	1448.8	1448.8	1469.8	1477.7
22.5°	5564.3	5304.5	4598.4	3614.2	2414.7	1543.3	1301.8	1257.2	1307.1	1343.8	1359.6
25°	5498.7	5212.6	4336.0	3170.6	1837.3	1244.1	1131.2	1141.7	1189.0	1254.6	1249.3
27.5°	5404.2	5052.5	4023.6	2656.2	1367.5	1073.5	1044.6	1049.9	1099.7	1128.6	1123.4
30°	5296.6	4889.8	3734.9	2144.4	1084.0	984.3	981.6	994.8	1002.6	1018.4	1015.8
32.5°	5160.1	4674.6	3427.8	1666.7	976.4	934.4	923.9	916.0	923.9	921.3	913.4
35°	5063.0	4559.1	3115.5	1270.3	916.0	889.8	881.9	868.8	858.3	842.5	839.9
37.5°	5036.8	4443.6	2787.4	1036.7	868.8	855.6	829.4	805.8	792.7	784.8	779.5
40°	5021.0	4367.5	2467.2	910.8	829.4	816.3	784.8	753.3	740.2	732.3	734.9
42.5°	5076.1	4325.5	2141.7	847.8	795.3	771.7	737.5	700.8	698.2	692.9	700.8
45°	5270.4	4378.0	1839.9	803.2	761.2	721.8	677.2	658.8	656.2	650.9	656.2
47.5°	5711.3	4509.2	1582.7	774.3	724.4	690.3	643.0	616.8	614.2	611.5	611.5
50°	6320.2	4913.4	1367.5	740.2	700.8	653.5	608.9	580.1	574.8	564.3	564.3
52.5°	7275.6	5593.2	1238.8	721.8	658.8	619.4	572.2	540.7	527.6	517.1	517.1
55°	8351.7	6435.7	1215.2	690.3	614.2	577.4	535.4	503.9	490.8	477.7	472.4
57.5°	9577.4	7551.2	1383.2	669.3	582.7	535.4	488.2	459.3	448.8	435.7	430.4
60°	10719.2	8664.1	1905.5	637.8	553.8	496.1	448.8	419.9	406.8	393.7	393.7
62.5°	12039.4	10042.0	2790.0	637.8	527.6	454.1	406.8	385.8	378.0	364.8	362.2
65°	13601.1	11467.2	3435.7	677.2	519.7	417.3	367.5	346.5	338.6	330.7	328.1
67.5°	14790.1	12286.1	2955.4	782.2	553.8	385.8	328.1	315.0	309.7	301.8	296.6
70°	14916.0	11787.4	1782.2	845.1	587.9	354.3	294.0	280.8	280.8	273.0	267.7
72.5°	13784.8	10459.3	1199.5	753.3	532.8	317.6	259.8	249.3	244.1	238.8	236.2
75°	11535.5	8871.4	947.5	601.1	409.4	262.5	225.7	215.2	207.3	204.7	199.5
77.5°	7748.0	5766.4	700.8	469.8	301.8	212.6	189.0	178.5	170.6	168.0	160.1
80°	2976.4	2196.9	451.4	341.2	212.6	168.0	149.6	139.1	133.9	126.0	120.7
82.5°	876.6	711.3	252.0	210.0	136.5	115.5	107.6	99.7	91.9	84.0	81.4
85°	362.2	325.5	154.9	110.2	84.0	68.2	63.0	55.1	47.2	42.0	36.7
87.5°	168.0	139.1	70.9	42.0	28.9	15.7	7.9	2.6	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)