

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: P480012

Luminaire Tested: **IFLD-M-SA4D-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480012
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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

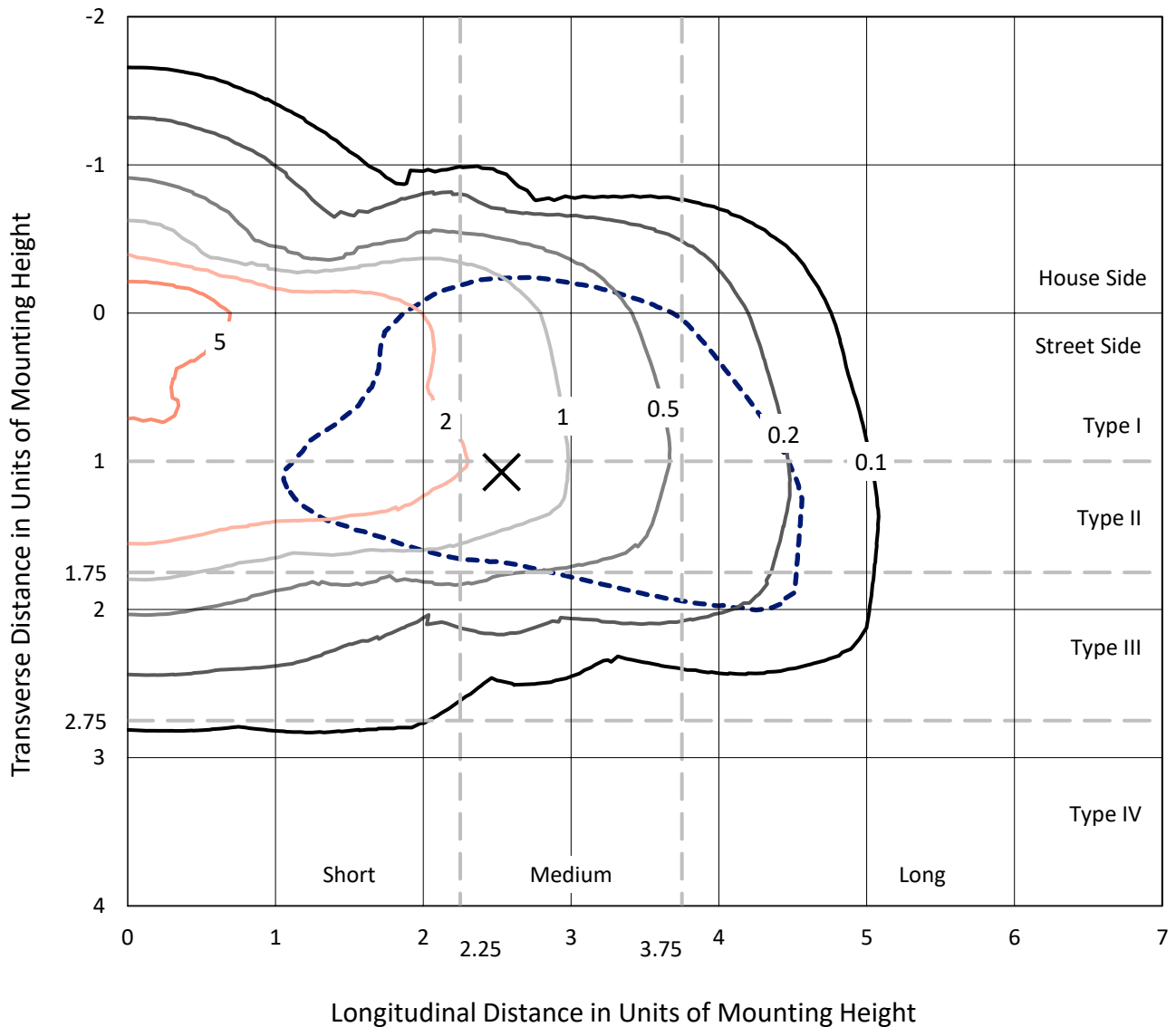
Lumens per Lamp: N/A
Luminaire Lumens: 26085.8 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

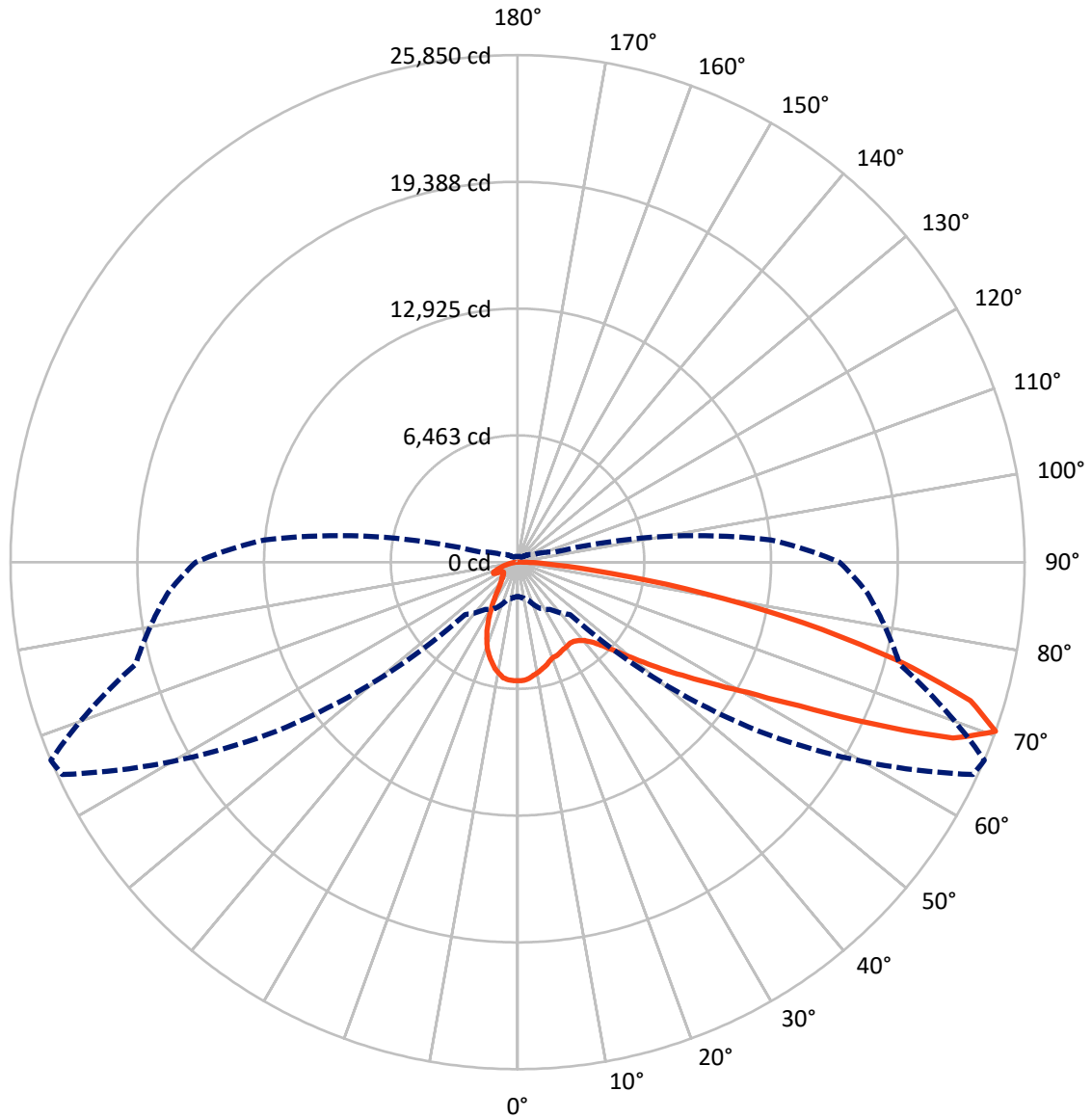
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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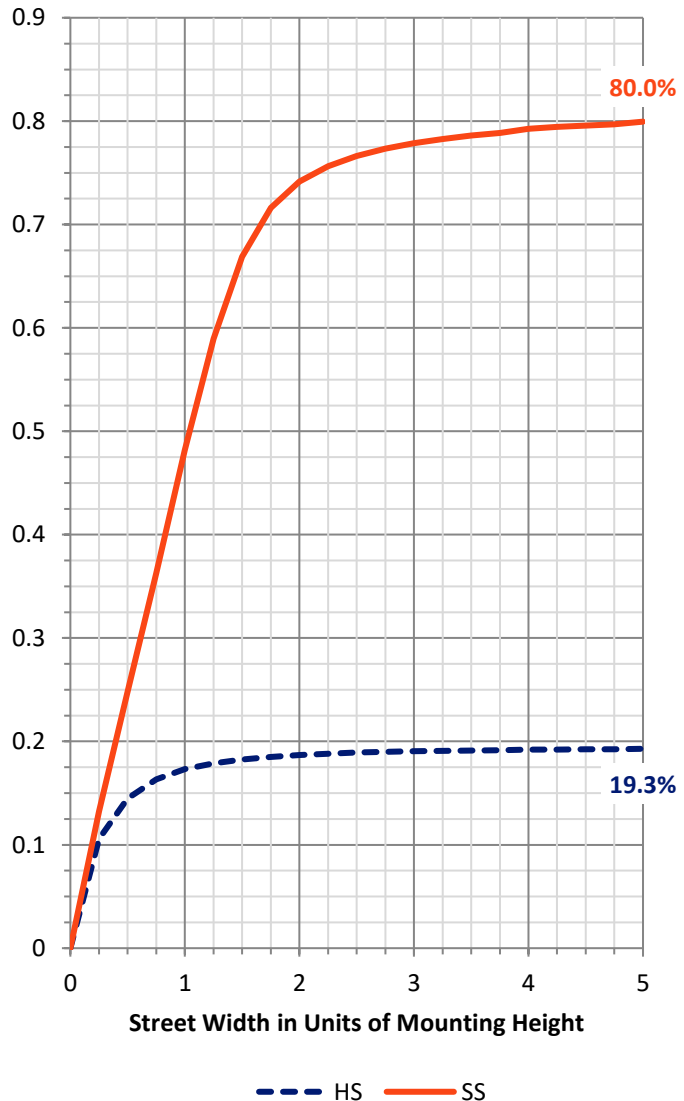
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5080.4	0.0	5080.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21005.3	0.0	21005.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	26085.8	0.0	26085.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.9	2.0
10°-20°	1261.9	4.8
20°-30°	1704.1	6.5
30°-40°	2280.2	8.7
40°-50°	3353.0	12.9
50°-60°	5226.5	20.0
60°-70°	6438.2	24.7
70°-80°	4549.2	17.4
80°-90°	745.6	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°	26085.8	100.0
0°-180°	26085.8	100.0

Coefficient of Utilization

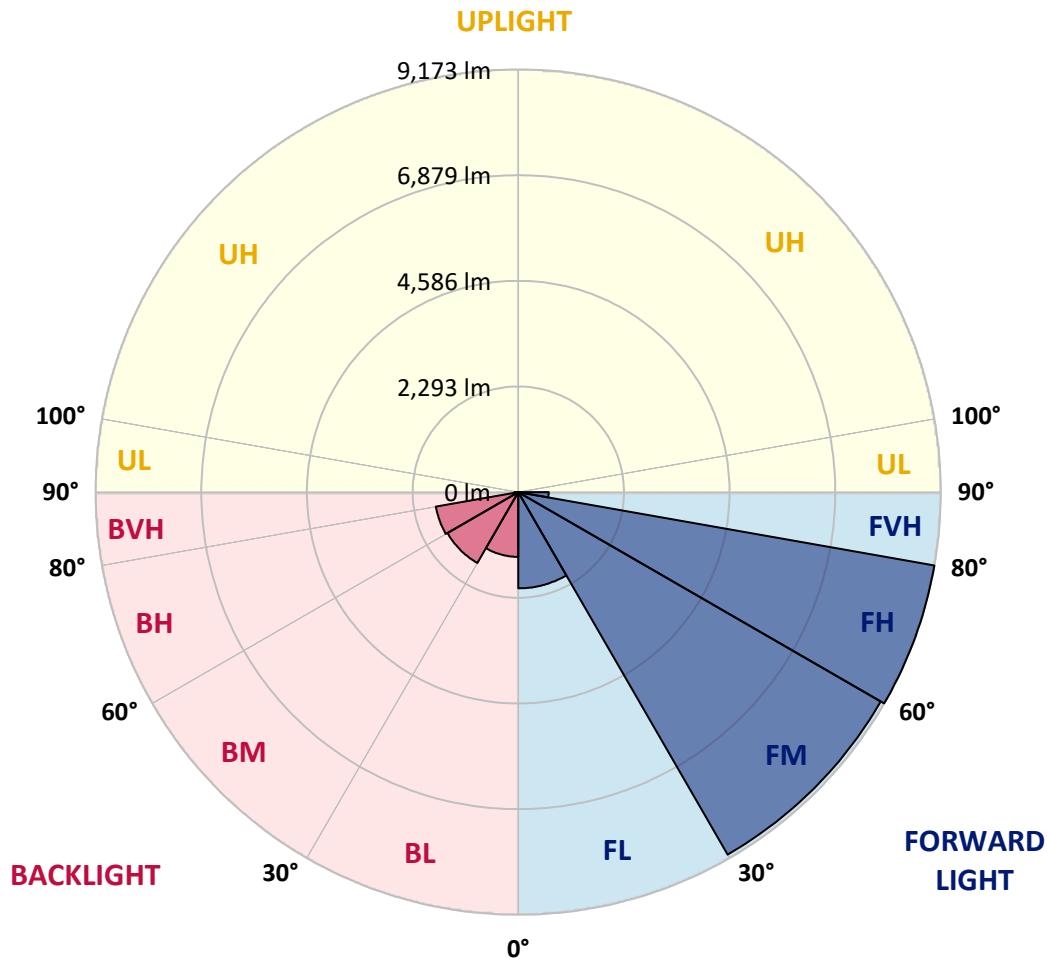


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.0	8.0			
FM (30°-60°)	9085.1	34.8			
FH (60°-80°)	9172.6	35.2			G4/12000
FVH (80°-90°)	659.6	2.5			G4/750
BL (0°-30°)	1404.9	5.4	B3/2500		
BM (30°-60°)	1774.7	6.8	B2/2500		
BH (60°-80°)	1814.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	86.0	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°	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8
2.5°	5622.9	5686.4	5709.5	5744.2	5833.7	5900.2	5940.6	5986.8	6041.7	6087.9	6116.7
5°	5230.1	5264.8	5319.7	5357.2	5469.8	5648.9	5770.2	5966.6	5960.8	6033.0	6142.7
7.5°	4848.9	4883.6	4909.6	4984.7	5146.4	5308.1	5530.5	5848.2	5825.1	5992.6	6163.0
10°	4612.1	4586.1	4594.8	4721.9	4848.9	5030.9	5311.0	5634.5	5718.2	5978.1	6220.7
12.5°	4389.7	4360.9	4430.2	4511.0	4667.0	4831.6	5166.6	5458.3	5585.4	5926.1	6246.7
15°	4251.1	4230.9	4317.5	4352.2	4537.0	4733.4	4970.2	5325.4	5464.1	5862.6	6206.3
17.5°	4173.1	4190.5	4222.2	4297.3	4415.7	4583.2	4843.1	5235.9	5296.6	5784.6	6197.6
20°	4187.6	4207.8	4210.7	4242.4	4323.3	4453.3	4719.0	5140.6	5181.0	5770.2	6220.7
22.5°	4303.1	4274.2	4285.8	4265.6	4288.7	4389.7	4623.7	5013.5	5169.5	5648.9	6171.6
25°	4476.4	4435.9	4430.2	4360.9	4317.5	4346.4	4606.3	4981.8	5082.9	5611.4	6168.7
27.5°	4782.5	4721.9	4721.9	4617.9	4441.7	4395.5	4557.2	4929.8	5019.3	5576.7	6102.3
30°	5077.1	5077.1	5080.0	4932.7	4736.3	4508.1	4577.5	4909.6	4967.3	5472.7	6012.8
32.5°	5435.2	5426.5	5412.1	5339.9	5036.6	4695.9	4675.6	4883.6	4912.5	5438.1	5986.8
35°	5784.6	5761.5	5874.2	5810.6	5501.6	5062.6	4776.7	4895.1	4958.7	5386.1	5905.9
37.5°	6047.4	6061.9	6295.8	6336.2	6070.5	5478.5	5062.6	5010.7	5071.3	5461.2	5905.9
40°	6388.2	6446.0	6665.5	6801.2	6639.5	6027.2	5516.0	5204.1	5247.5	5628.7	6033.0
42.5°	6835.9	6885.0	7165.1	7341.3	7295.0	6726.1	5963.7	5608.5	5573.8	5908.8	6223.6
45°	7427.9	7436.6	7719.6	7962.2	8057.5	7456.8	6674.1	6119.6	6090.8	6391.1	6573.1
47.5°	8132.6	8123.9	8300.1	8560.0	8817.0	8328.9	7491.4	6896.5	6792.5	7081.3	7153.5
50°	8814.1	8776.6	8817.0	9149.1	9643.0	9420.6	8484.9	7846.7	7742.7	7901.5	8025.7
52.5°	9189.6	9235.8	9126.0	9565.0	10520.9	10711.5	9801.8	8981.6	8892.1	8970.1	9186.7
55°	8926.8	9022.1	8949.9	9365.7	10905.0	12285.5	11505.7	10295.7	10180.1	10151.3	10506.5
57.5°	7809.1	7982.4	7996.8	8655.3	10772.2	13504.2	13902.8	11846.5	11673.2	11378.7	11745.4
60°	5995.5	6168.7	6301.6	7081.3	9634.3	14232.0	16681.0	14052.9	13481.1	12718.7	12938.2
62.5°	4202.0	4320.4	4453.3	4932.7	7427.9	13804.6	19083.8	17160.4	16106.3	14130.9	14405.3
65°	3061.3	3153.7	3289.4	3572.4	4563.0	11422.0	20198.6	20851.2	19852.0	15927.2	15892.6
67.5°	2304.6	2362.4	2541.4	2994.8	3162.3	7055.3	19043.4	24750.0	23941.4	17922.8	17088.2
70°	1744.3	1793.4	1960.9	2581.9	2954.4	3783.3	15023.3	25619.3	25850.3	20161.0	17891.1
72.5°	1201.4	1256.3	1444.0	2151.5	2812.9	3000.6	9429.3	23274.3	24149.3	21082.3	17030.4
75°	736.4	774.0	883.7	1631.7	2792.7	2934.2	5189.7	19072.2	19999.3	19479.5	14899.1
77.5°	519.8	516.9	537.2	955.9	2420.1	2951.5	3199.9	13975.0	14876.0	14356.2	10110.8
80°	378.3	381.2	401.4	571.8	1643.3	3000.6	2521.2	9360.0	9628.5	7485.7	3988.3
82.5°	228.2	239.7	288.8	387.0	987.7	2708.9	2330.6	5201.3	4866.3	2402.8	1097.4
85°	121.3	121.3	170.4	245.5	525.6	2021.6	2244.0	2475.0	2073.6	745.1	407.2
87.5°	28.9	28.9	49.1	98.2	210.8	967.5	1530.6	984.8	788.4	251.3	167.5
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°	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8
2.5°	6105.2	6070.5	6113.9	6027.2	5957.9	5960.8	5853.9	5848.2	5833.7	5758.6	5784.6
5°	6174.5	6145.6	6096.5	6001.2	5848.2	5695.1	5602.7	5484.3	5435.2	5409.2	5420.7
7.5°	6240.9	6188.9	6047.4	5914.6	5677.8	5389.0	5221.5	5062.6	4860.5	4837.4	4796.9
10°	6258.3	6148.5	5966.6	5683.6	5368.8	5048.2	4667.0	4372.4	4216.5	4095.2	4049.0
12.5°	6232.3	6186.1	5836.6	5472.7	4996.2	4493.7	4049.0	3633.1	3344.3	3194.1	3153.7
15°	6229.4	6148.5	5692.2	5152.2	4542.8	3887.2	3254.8	2755.1	2451.9	2327.7	2327.7
17.5°	6232.3	6038.8	5521.8	4828.7	4008.5	3121.9	2425.9	2015.8	1848.3	1831.0	1845.4
20°	6174.5	5957.9	5342.8	4447.5	3338.5	2345.0	1761.7	1594.2	1594.2	1617.3	1625.9
22.5°	6122.5	5836.6	5059.7	3976.8	2656.9	1698.1	1432.4	1383.3	1438.2	1478.6	1496.0
25°	6050.3	5735.5	4770.9	3488.7	2021.6	1368.9	1244.7	1256.3	1308.3	1380.5	1374.7
27.5°	5946.4	5559.4	4427.3	2922.6	1504.6	1181.2	1149.4	1155.2	1210.1	1241.8	1236.1
30°	5828.0	5380.3	4109.6	2359.5	1192.7	1083.0	1080.1	1094.5	1103.2	1120.5	1117.6
32.5°	5677.8	5143.5	3771.7	1833.9	1074.3	1028.1	1016.6	1007.9	1016.6	1013.7	1005.0
35°	5570.9	5016.4	3428.0	1397.8	1007.9	979.0	970.4	955.9	944.4	927.0	924.2
37.5°	5542.0	4889.4	3067.0	1140.8	955.9	941.5	912.6	886.6	872.2	863.5	857.7
40°	5524.7	4805.6	2714.7	1002.1	912.6	898.2	863.5	828.9	814.4	805.7	808.6
42.5°	5585.4	4759.4	2356.6	932.8	875.1	849.1	811.5	771.1	768.2	762.4	771.1
45°	5799.1	4817.2	2024.5	883.7	837.5	794.2	745.1	724.9	722.0	716.2	722.0
47.5°	6284.3	4961.6	1741.5	852.0	797.1	759.5	707.6	678.7	675.8	672.9	672.9
50°	6954.3	5406.3	1504.6	814.4	771.1	719.1	670.0	638.2	632.5	620.9	620.9
52.5°	8005.5	6154.3	1363.1	794.2	724.9	681.6	629.6	594.9	580.5	568.9	568.9
55°	9189.6	7081.3	1337.1	759.5	675.8	635.4	589.1	554.5	540.1	525.6	519.8
57.5°	10538.3	8308.7	1522.0	736.4	641.1	589.1	537.2	505.4	493.8	479.4	473.6
60°	11794.5	9533.2	2096.7	701.8	609.4	545.8	493.8	462.1	447.6	433.2	433.2
62.5°	13247.2	11049.4	3069.9	701.8	580.5	499.6	447.6	424.5	415.9	401.4	398.5
65°	14965.5	12617.6	3780.4	745.1	571.8	459.2	404.3	381.2	372.5	363.9	361.0
67.5°	16273.8	13518.7	3251.9	860.6	609.4	424.5	361.0	346.6	340.8	332.1	326.3
70°	16412.4	12969.9	1960.9	929.9	646.9	389.9	323.5	309.0	309.0	300.4	294.6
72.5°	15167.7	11508.6	1319.8	828.9	586.3	349.4	285.9	274.4	268.6	262.8	259.9
75°	12692.7	9761.4	1042.6	661.3	450.5	288.8	248.4	236.8	228.2	225.3	219.5
77.5°	8525.3	6344.9	771.1	516.9	332.1	233.9	207.9	196.4	187.7	184.8	176.2
80°	3275.0	2417.2	496.7	375.4	233.9	184.8	164.6	153.1	147.3	138.6	132.8
82.5°	964.6	782.6	277.2	231.0	150.2	127.1	118.4	109.7	101.1	92.4	89.5
85°	398.5	358.1	170.4	121.3	92.4	75.1	69.3	60.6	52.0	46.2	40.4
87.5°	184.8	153.1	78.0	46.2	31.8	17.3	8.7	2.9	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)