

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: P480948

Luminaire Tested: **IFLD-M-SA4D-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480948
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

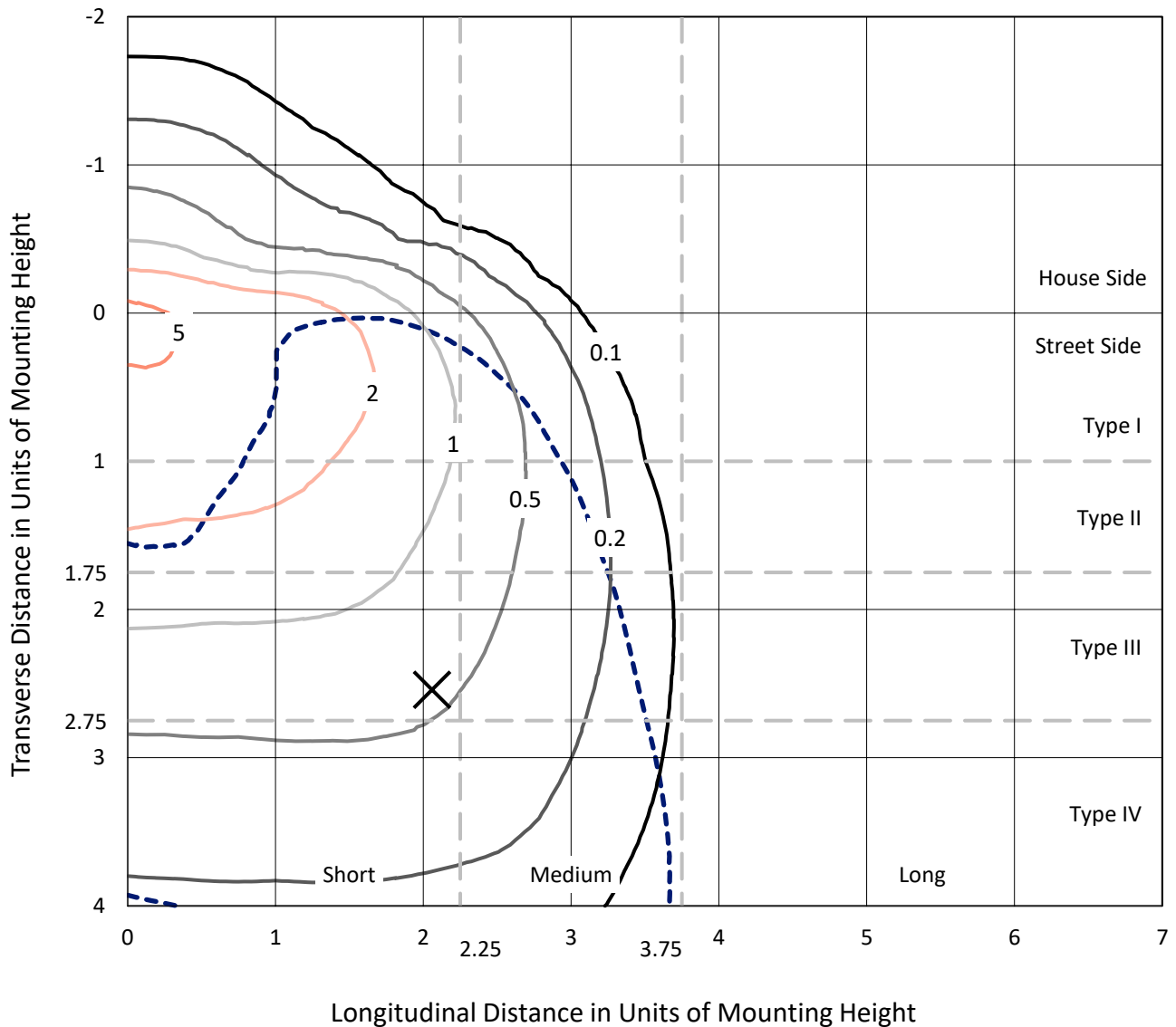
Lumens per Lamp: N/A
Luminaire Lumens: 30953.3 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

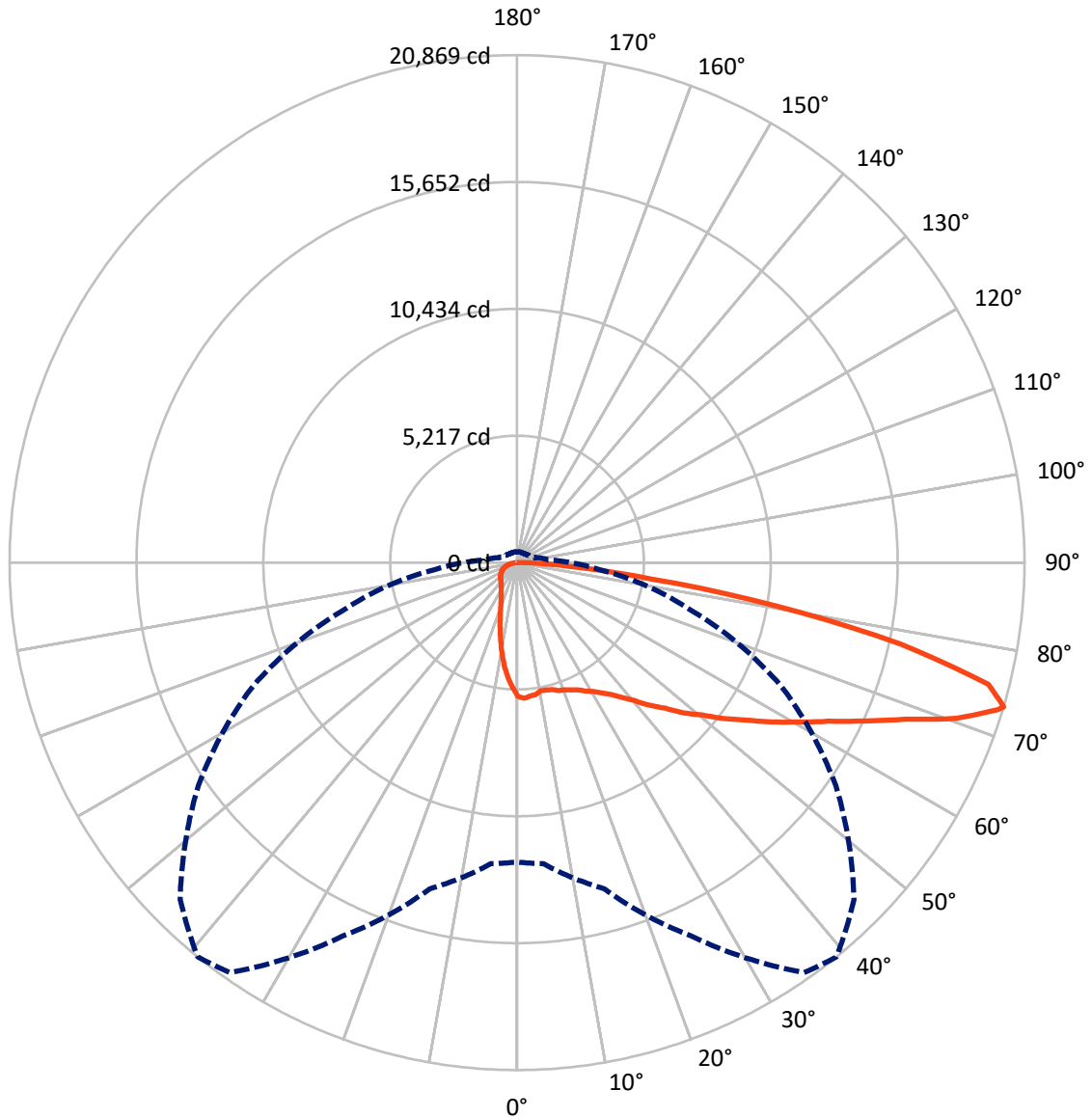
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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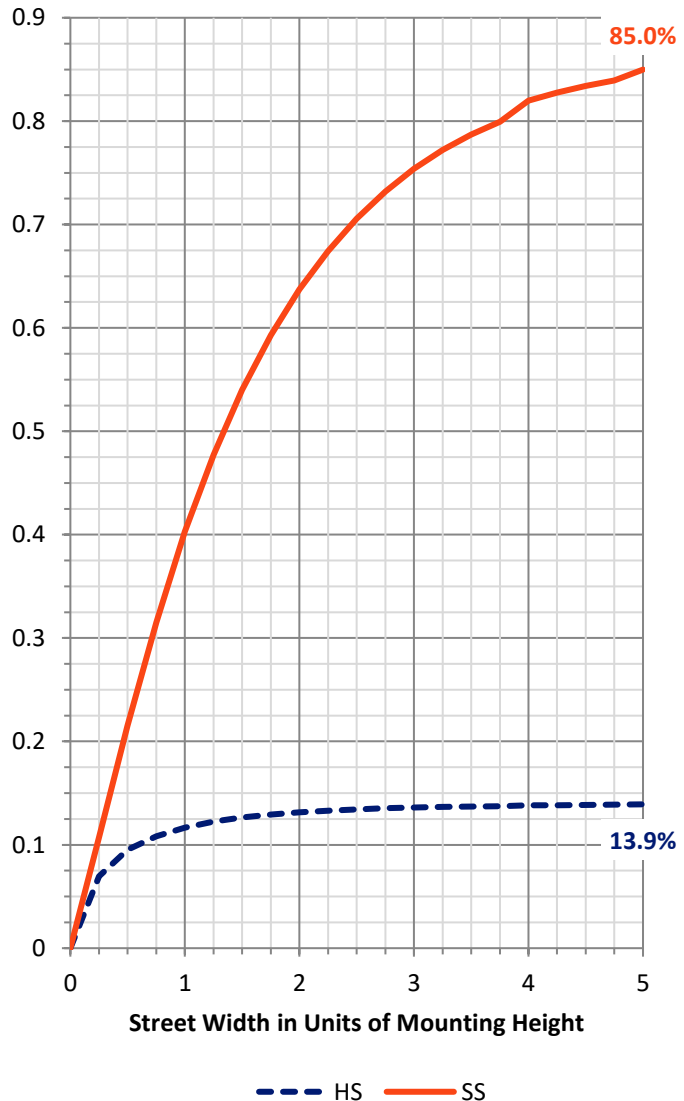
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4351.2	0.0	4351.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	26602.1	0.0	26602.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	30953.3	0.0	30953.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	1.5
10°-20°	1215.9	3.9
20°-30°	1858.0	6.0
30°-40°	2709.1	8.8
40°-50°	4093.7	13.2
50°-60°	5927.9	19.2
60°-70°	7531.7	24.3
70°-80°	6105.6	19.7
80°-90°	1033.0	3.3
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°	30953.3	100.0
0°-180°	30953.3	100.0

Coefficient of Utilization



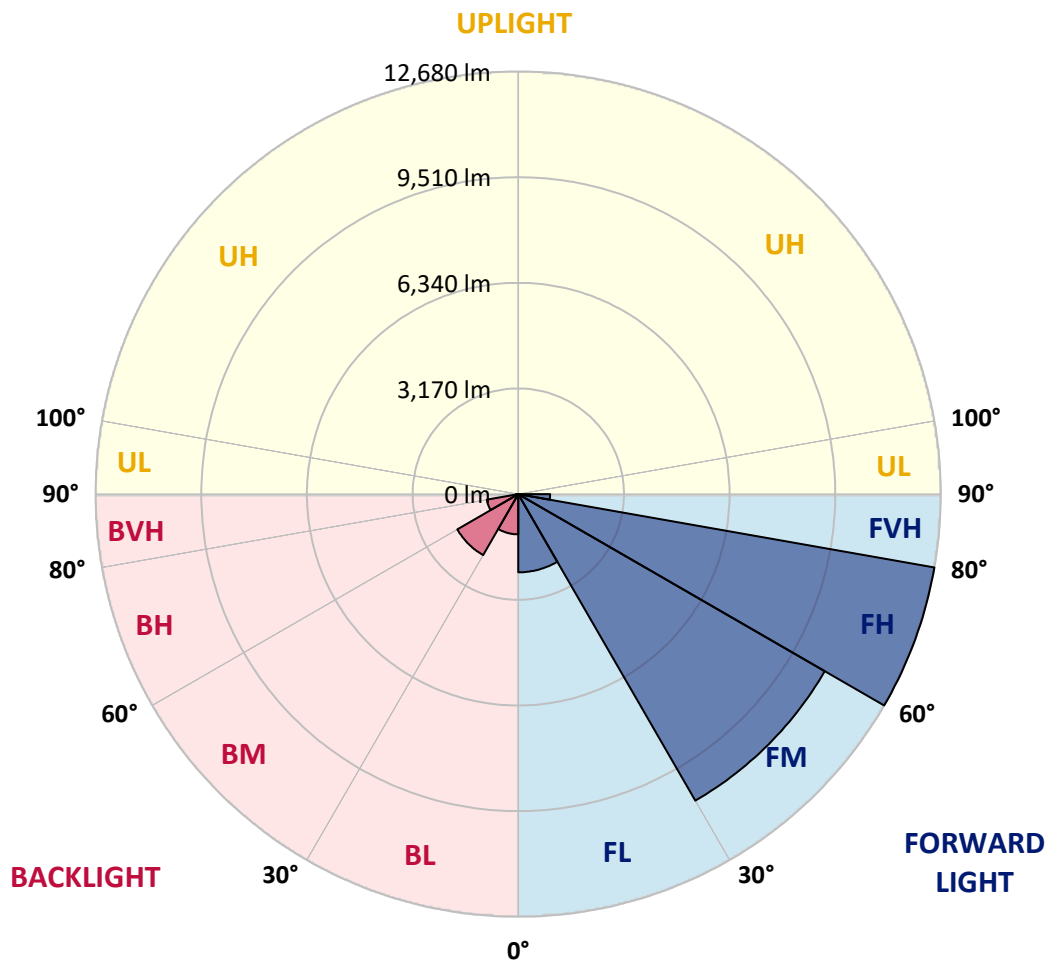
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2345.6	7.6			
FM (30°-60°)	10619.0	34.3			
FH (60°-80°)	12680.3	41.0			G5
FVH (80°-90°)	957.2	3.1			G5
BL (0°-30°)	1206.7	3.9	B3/2500		
BM (30°-60°)	2111.7	6.8	B2/2500		
BH (60°-80°)	957.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	75.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9
2.5°	5641.5	5582.6	5593.0	5572.2	5593.0	5586.1	5575.7	5523.7	5575.7	5523.7	5509.9
5°	5565.3	5565.3	5599.9	5548.0	5554.9	5520.3	5554.9	5516.8	5482.2	5395.6	5371.3
7.5°	5541.0	5537.6	5541.0	5468.3	5502.9	5482.2	5447.5	5406.0	5336.7	5281.3	5201.7
10°	5374.8	5409.4	5371.3	5392.1	5419.8	5357.5	5354.0	5343.6	5312.5	5239.7	5191.3
12.5°	5284.8	5343.6	5364.4	5347.1	5371.3	5378.3	5357.5	5343.6	5305.5	5257.1	5118.5
15°	5322.9	5253.6	5312.5	5426.8	5402.5	5419.8	5423.3	5409.4	5392.1	5302.1	5212.0
17.5°	5333.3	5291.7	5416.4	5440.6	5471.8	5534.1	5492.6	5489.1	5423.3	5361.0	5229.4
20°	5357.5	5340.2	5440.6	5568.7	5572.2	5582.6	5603.4	5551.4	5516.8	5409.4	5208.6
22.5°	5447.5	5506.4	5599.9	5655.3	5686.5	5693.4	5693.4	5589.5	5551.4	5464.9	5305.5
25°	5717.7	5655.3	5786.9	5852.7	5807.7	5797.3	5773.1	5679.6	5638.0	5561.8	5350.6
27.5°	5915.1	5911.6	5987.8	6077.8	5956.6	5980.9	5894.3	5866.6	5773.1	5731.5	5430.2
30°	6185.2	6261.4	6257.9	6285.6	6126.3	6154.0	6043.2	5991.2	5939.3	5963.5	5665.7
32.5°	6531.5	6503.8	6548.8	6528.0	6368.7	6393.0	6261.4	6181.7	6199.0	6271.8	5987.8
35°	6753.1	6725.4	6742.8	6742.8	6694.3	6666.6	6611.2	6507.3	6590.4	6725.4	6348.0
37.5°	6992.1	7026.7	7127.2	7106.4	7044.0	7044.0	7037.1	6964.4	7071.8	7404.2	6922.8
40°	7203.4	7296.9	7359.2	7400.8	7473.5	7473.5	7532.4	7490.8	7684.7	8218.1	7625.9
42.5°	7425.0	7428.5	7767.8	7799.0	7961.8	8031.0	8076.1	8110.7	8474.3	9070.0	8377.4
45°	7709.0	7726.3	8024.1	8263.1	8515.9	8540.1	8709.8	8824.1	9270.9	10001.6	9194.7
47.5°	8083.0	8062.2	8380.8	8761.8	9076.9	9243.1	9447.5	9572.1	10122.8	11012.8	10088.2
50°	8574.8	8512.4	8696.0	9295.1	9665.7	9849.2	10212.8	10420.6	11064.8	11979.0	10701.1
52.5°	9173.9	9070.0	9215.4	9870.0	10285.6	10656.1	11002.4	11234.5	11906.3	12727.1	11154.8
55°	9807.6	9592.9	9634.5	10479.5	11078.6	11428.4	11902.8	12145.3	12831.0	13398.9	11608.5
57.5°	10434.5	10299.4	10216.3	11064.8	12024.1	12360.0	12796.3	13111.5	13693.3	13994.6	11992.9
60°	10960.9	10926.2	10791.2	11972.1	13024.9	13312.3	13769.5	13963.4	14403.2	14545.2	11999.8
62.5°	11393.8	11276.0	11490.7	12702.8	14043.1	14368.6	14870.8	14888.1	15199.8	14888.1	11646.6
65°	11733.2	11740.1	12082.9	13585.9	15220.5	15701.9	16107.1	16062.1	15861.2	14683.8	10812.0
67.5°	12041.4	12173.0	12675.1	14555.6	16733.9	17187.6	17637.8	17042.2	16041.3	13727.9	9180.8
70°	12283.8	12415.4	13475.1	15736.6	18517.5	19182.4	19282.8	17430.0	15213.6	11629.3	6926.3
72.5°	12256.1	12495.0	13928.8	16678.5	20100.1	20675.0	19864.6	16339.1	12675.1	8107.2	4041.5
73°	12315.0	12432.7	13890.7	16941.7	20581.5	20868.9	19594.5	15996.3	11954.8	7272.6	3418.1
75°	11179.0	11577.3	13201.5	16512.3	20065.5	20013.5	18043.0	13329.7	8498.6	3819.9	1655.4
77.5°	8270.0	8522.8	10403.3	13579.0	16470.7	16138.3	13610.2	8519.3	4034.6	1416.4	893.5
80°	4041.5	4238.9	5513.3	7840.6	10770.4	10798.1	8446.6	4432.8	1728.1	800.0	609.5
82.5°	2019.0	2136.8	2649.3	3445.8	5298.6	5551.4	4283.9	2521.2	1070.1	453.7	346.3
85°	1319.5	1402.6	1631.1	1686.6	2247.6	2372.3	1994.8	1967.1	696.1	245.9	280.5
87.5°	876.2	890.0	1000.9	851.9	900.4	865.8	962.8	1239.8	204.3	103.9	76.2
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°	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9	5509.9
2.5°	5492.6	5444.1	5392.1	5319.4	5267.5	5187.8	5115.1	5083.9	5077.0	5080.4	5045.8
5°	5350.6	5281.3	5177.4	5028.5	4941.9	4810.3	4699.5	4640.6	4578.3	4588.7	4561.0
7.5°	5153.2	5077.0	4917.7	4744.5	4529.8	4342.8	4238.9	4093.4	4010.3	3948.0	3982.6
10°	5090.8	4959.2	4720.3	4481.3	4148.9	3903.0	3664.0	3497.8	3383.5	3272.7	3321.2
12.5°	5059.7	4928.1	4595.6	4242.4	3812.9	3438.9	3103.0	2898.7	2735.9	2638.9	2677.0
15°	5032.0	4869.2	4477.9	3979.2	3497.8	3006.0	2628.5	2358.4	2202.6	2109.1	2119.4
17.5°	5070.1	4838.0	4304.7	3722.9	3151.5	2625.1	2206.0	1925.5	1766.2	1707.3	1693.5
20°	5032.0	4803.4	4135.0	3466.6	2805.2	2261.4	1859.7	1627.7	1516.9	1468.4	1458.0
22.5°	5045.8	4720.3	3958.4	3182.6	2483.1	1956.7	1627.7	1451.1	1364.5	1340.2	1347.2
25°	5111.6	4671.8	3781.8	2871.0	2164.5	1731.6	1478.8	1343.7	1281.4	1257.1	1264.0
27.5°	5160.1	4713.3	3622.5	2576.6	1894.3	1530.7	1354.1	1264.0	1222.5	1205.2	1201.7
30°	5281.3	4737.6	3466.6	2313.4	1672.7	1399.1	1267.5	1194.8	1167.1	1156.7	1153.2
32.5°	5461.4	4782.6	3286.5	2071.0	1509.9	1274.4	1198.2	1135.9	1129.0	1118.6	1122.1
35°	5755.8	4938.5	3085.7	1863.2	1354.1	1191.3	1125.5	1084.0	1084.0	1084.0	1094.4
37.5°	6178.3	5156.6	2905.6	1665.8	1253.7	1118.6	1063.2	1049.3	1042.4	1052.8	1059.7
40°	6722.0	5419.8	2760.1	1509.9	1167.1	1070.1	1021.6	1014.7	1011.2	1007.8	1014.7
42.5°	7317.6	5755.8	2635.5	1388.7	1104.7	1018.2	983.5	976.6	962.8	969.7	980.1
45°	7909.8	6171.3	2524.6	1291.8	1063.2	990.5	942.0	938.5	931.6	928.1	945.4
47.5°	8567.8	6580.0	2490.0	1232.9	1032.0	948.9	914.3	910.8	890.0	886.6	900.4
50°	9080.4	6881.3	2528.1	1205.2	987.0	917.7	893.5	876.2	858.9	841.5	841.5
52.5°	9433.6	7089.1	2555.8	1184.4	962.8	876.2	845.0	838.1	820.8	803.5	796.5
55°	9752.2	7213.7	2562.7	1187.9	938.5	827.7	806.9	803.5	793.1	765.4	758.4
57.5°	9859.6	7161.8	2424.2	1156.7	924.7	796.5	768.8	775.7	761.9	737.7	734.2
60°	9849.2	6801.6	2109.1	1115.1	893.5	761.9	727.3	748.0	748.0	720.3	716.9
62.5°	9250.1	5970.5	1724.6	1035.5	858.9	727.3	689.2	720.3	730.7	713.4	709.9
65°	8006.8	4862.3	1440.7	955.8	806.9	689.2	651.1	685.7	703.0	696.1	692.6
67.5°	6625.0	3719.4	1198.2	851.9	741.1	637.2	606.1	630.3	640.7	644.1	647.6
70°	4682.2	2476.2	1000.9	737.7	651.1	581.8	547.2	550.6	547.2	557.6	557.6
72.5°	2545.4	1426.8	813.8	626.8	561.0	505.6	481.4	464.1	464.1	460.6	460.6
73°	2178.3	1281.4	775.7	609.5	536.8	491.8	464.1	450.2	450.2	446.7	443.3
75°	1222.5	938.5	664.9	522.9	464.1	429.4	408.7	387.9	384.4	384.4	384.4
77.5°	803.5	730.7	529.9	419.0	374.0	342.9	335.9	315.1	315.1	315.1	311.7
80°	602.6	574.9	408.7	318.6	287.4	263.2	256.3	242.4	239.0	225.1	228.6
82.5°	401.7	453.7	297.8	225.1	193.9	180.1	180.1	176.6	166.2	148.9	148.9
85°	318.6	370.6	214.7	138.5	114.3	97.0	100.4	97.0	93.5	76.2	72.7
87.5°	58.9	148.9	62.3	38.1	27.7	17.3	17.3	10.4	6.9	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)