

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: P480478

Luminaire Tested: **IFLD-M-SA4B-735-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480478  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

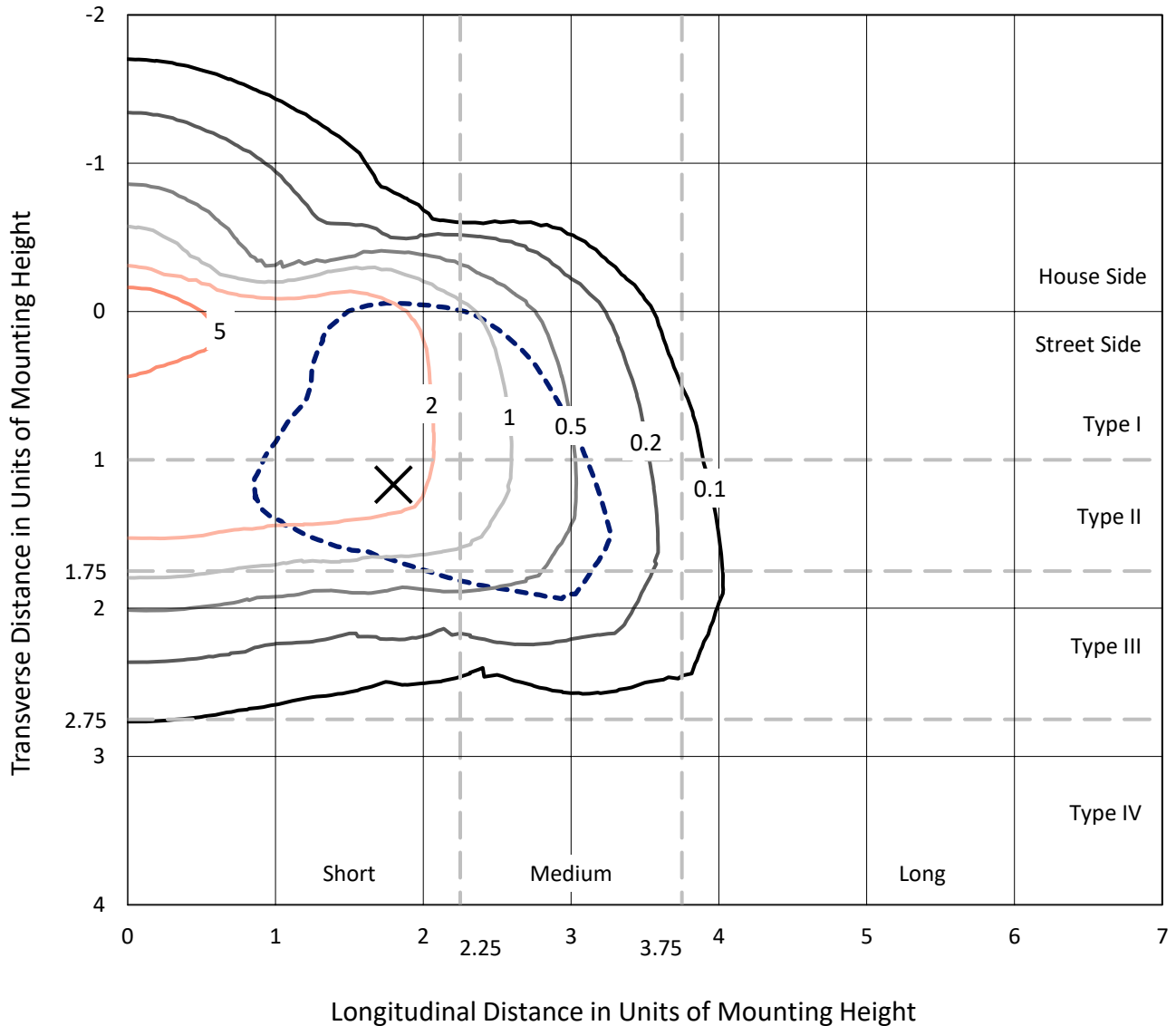
Lumens per Lamp: N/A  
Luminaire Lumens: 22227.5 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1  
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

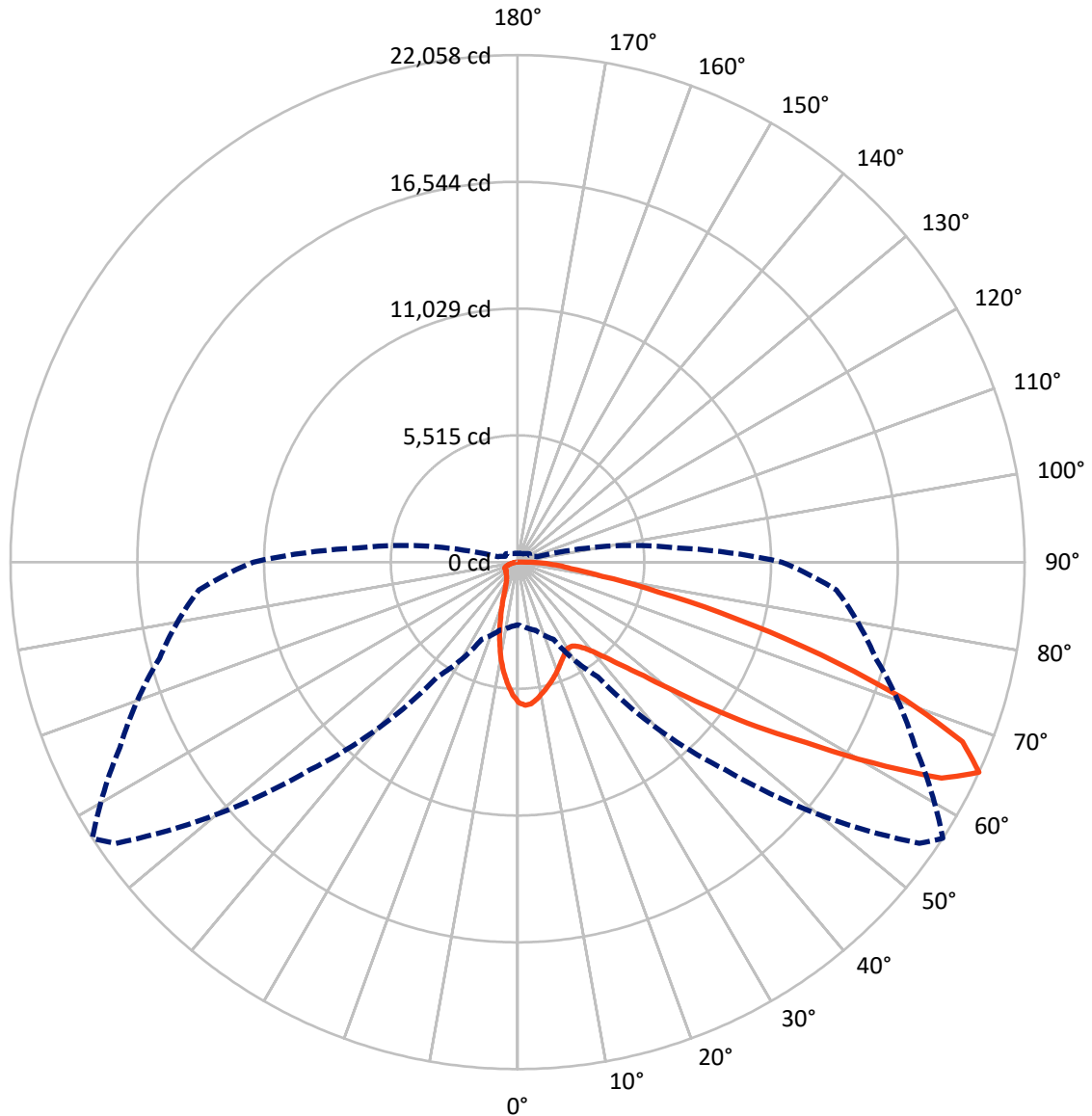
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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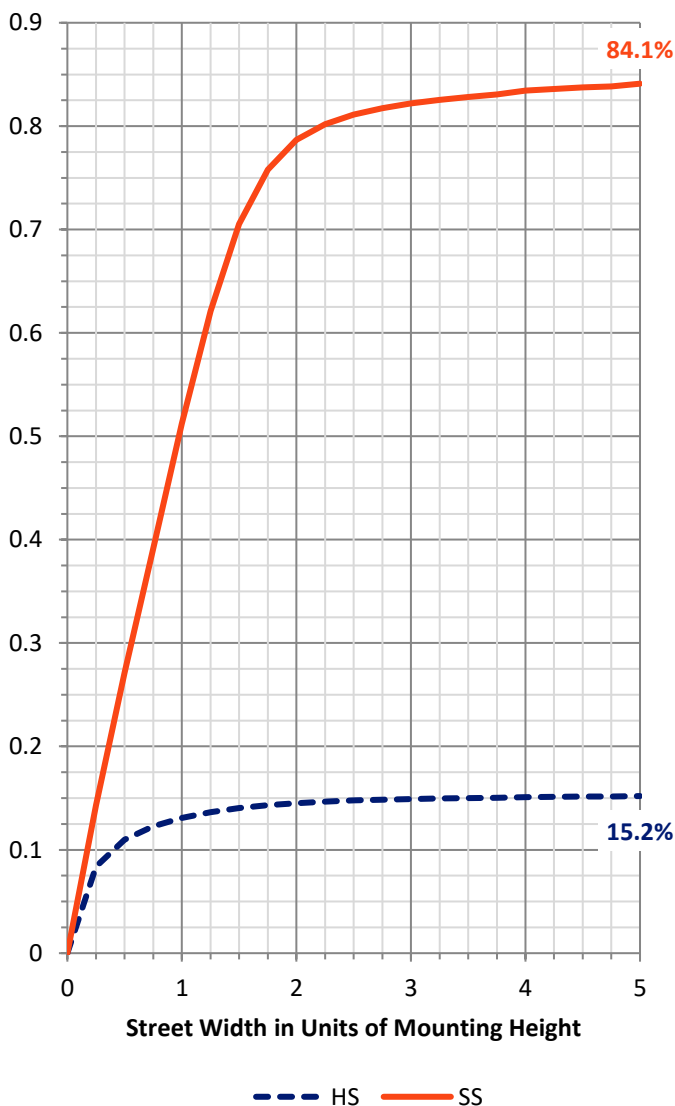
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3408.8	0.0	3408.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	18818.7	0.0	18818.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	22227.5	0.0	22227.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	511.9	2.3
10°-20°	1101.6	5.0
20°-30°	1424.3	6.4
30°-40°	1916.6	8.6
40°-50°	3056.1	13.7
50°-60°	5397.8	24.3
60°-70°	5938.3	26.7
70°-80°	2484.1	11.2
80°-90°	397.0	1.8
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°	22227.5	100.0
0°-180°	22227.5	100.0

**Coefficient of Utilization**



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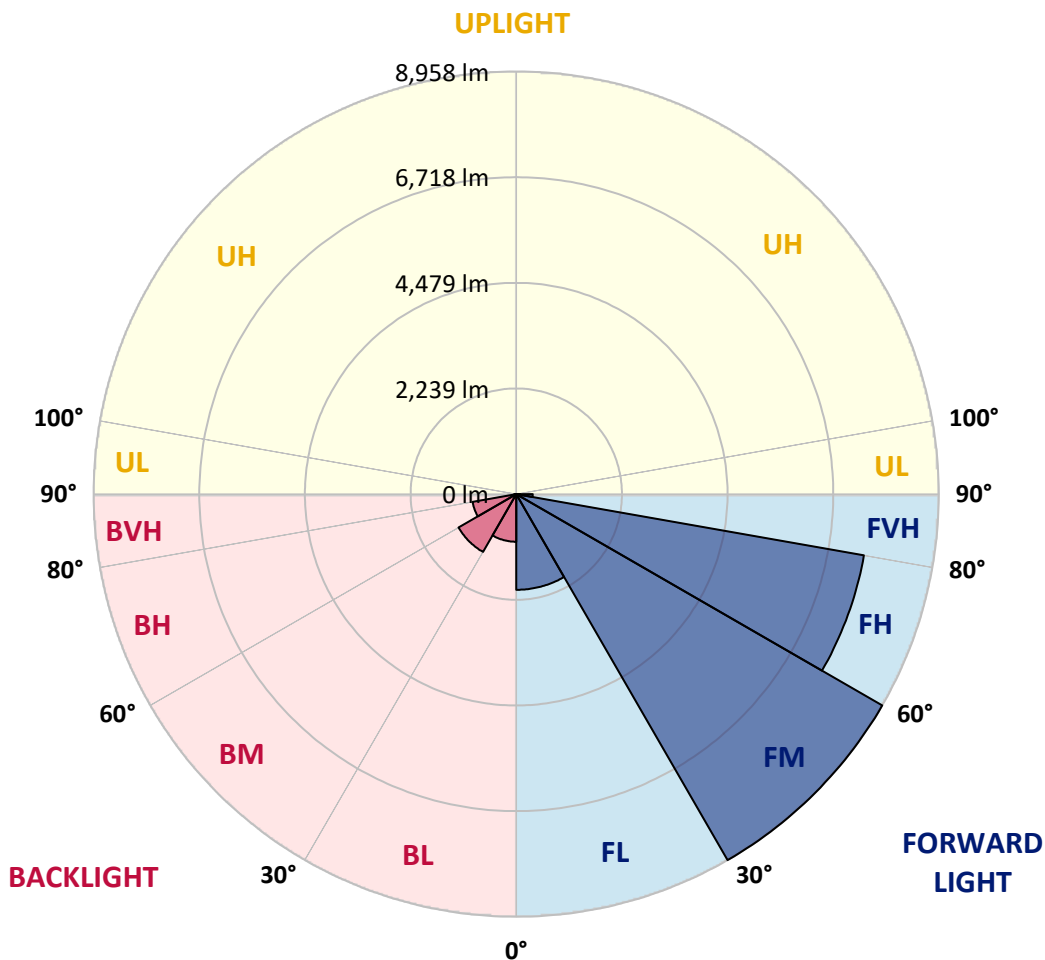
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.2	9.1			
FM (30°-60°)	8957.7	40.3			
FH (60°-80°)	7482.4	33.7			G3/7500
FVH (80°-90°)	350.4	1.6			G3/500
BL (0°-30°)	1009.5	4.5	B3/2500		
BM (30°-60°)	1412.8	6.4	B2/2500		
BH (60°-80°)	939.9	4.2	B2/1000		G2/1000
BVH (80°-90°)	46.6	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3
2.5°	6277.3	6287.3	6287.3	6307.3	6239.8	6272.3	6267.3	6237.3	6247.3	6194.8	6142.3
5°	6099.7	6092.2	6132.3	6137.3	6189.8	6204.8	6217.3	6197.3	6202.3	6087.2	6037.2
7.5°	5644.6	5642.1	5709.6	5767.1	5877.2	5979.7	6047.2	6027.2	6054.7	5982.2	5864.7
10°	5104.4	5161.9	5231.9	5289.5	5492.0	5622.1	5797.1	5814.6	5919.7	5902.2	5689.6
12.5°	4699.2	4724.2	4776.8	4941.8	5126.9	5342.0	5592.1	5614.6	5717.1	5767.1	5582.1
15°	4366.6	4389.1	4456.6	4579.2	4786.8	5041.9	5359.5	5417.0	5622.1	5639.6	5442.0
17.5°	4124.0	4141.5	4186.5	4309.1	4479.2	4806.8	5106.9	5209.4	5479.5	5564.6	5297.0
20°	4029.0	3991.5	4016.5	4094.0	4264.1	4516.7	4904.3	4994.3	5339.5	5507.0	5159.4
22.5°	3986.5	3954.0	3969.0	3964.0	4099.0	4279.1	4686.7	4781.8	5206.9	5439.5	5036.9
25°	4019.0	4019.0	4004.0	3991.5	4006.5	4124.0	4451.6	4599.2	5029.4	5382.0	4911.8
27.5°	4194.0	4126.5	4134.0	4081.5	4066.5	4066.5	4346.6	4434.1	4971.8	5349.5	4809.3
30°	4306.6	4339.1	4341.6	4264.1	4186.5	4046.5	4249.1	4334.1	4924.3	5389.5	4749.3
32.5°	4594.2	4579.2	4536.7	4521.7	4406.6	4249.1	4296.6	4354.1	4896.8	5479.5	4766.8
35°	4881.8	4874.3	4876.8	4869.3	4749.3	4516.7	4424.1	4501.7	4946.8	5637.1	4826.8
37.5°	5179.4	5199.4	5284.4	5284.4	5156.9	4904.3	4781.8	4759.3	5129.4	5894.7	4969.3
40°	5477.0	5527.0	5634.6	5804.6	5624.6	5389.5	5191.9	5156.9	5349.5	6239.8	5312.0
42.5°	5762.1	5844.7	6057.2	6309.8	6249.8	6014.7	5752.1	5712.1	5802.1	6752.5	5789.6
45°	6127.3	6197.3	6532.4	6920.1	7002.6	6795.0	6487.4	6454.9	6449.9	7502.8	6447.4
47.5°	6682.5	6757.5	7092.6	7482.8	7737.9	7770.4	7425.2	7390.2	7270.2	8515.6	7410.2
50°	7377.7	7500.3	7782.9	8238.0	8608.2	8955.8	8858.3	8755.7	8520.6	9693.6	8630.7
52.5°	7885.4	8035.5	8418.1	9000.8	9653.6	10206.3	10556.4	10556.4	10016.2	10986.6	10098.7
55°	8020.5	8110.5	8593.2	9436.0	10553.9	11951.9	12684.7	12629.7	11796.9	12347.1	11806.9
57.5°	7482.8	7600.3	8185.5	9068.3	11026.6	13585.0	14798.0	14810.5	13742.6	13927.6	13492.5
60°	6002.2	6039.7	6730.0	7910.4	10571.4	14900.5	17684.0	17731.5	15955.9	15335.7	14350.3
62.5°	4149.0	4269.1	4789.3	5824.6	8758.2	14752.9	20467.5	20702.6	17729.0	16078.4	14485.3
65°	2731.0	2803.5	3081.1	3711.4	6097.2	12787.2	21332.9	22058.1	19084.5	16120.9	13920.1
67.5°	1980.7	1993.2	2075.8	2400.9	3663.9	9195.9	19854.8	20877.7	19592.2	15765.8	12594.6
70°	1600.6	1610.6	1640.6	1848.2	2365.9	5754.6	16193.5	17796.6	18069.2	14082.7	10143.7
72.5°	1300.5	1313.0	1350.5	1545.6	1950.7	3201.2	11841.9	13795.1	14697.9	10418.8	6742.5
75°	1022.9	1032.9	1122.9	1315.5	1833.2	2198.3	7855.4	9768.6	9891.1	6089.7	3156.2
77.5°	700.3	717.8	827.8	1115.4	1725.6	1923.2	4896.8	6257.3	5614.6	2383.4	1085.4
80°	445.2	470.2	535.2	845.3	1525.6	1835.7	3046.1	3736.4	2458.4	815.3	522.7
82.5°	262.6	287.6	352.6	547.7	1197.9	1703.1	2145.8	2338.4	1152.9	417.7	315.1
85°	145.1	162.6	212.6	330.1	702.8	1513.1	1718.1	1678.1	660.2	222.6	197.6
87.5°	47.5	55.0	77.5	132.5	290.1	712.8	1030.4	967.9	342.6	102.5	77.5
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°	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3	6112.3
2.5°	6107.3	6099.7	5987.2	5902.2	5757.1	5637.1	5589.6	5524.5	5522.0	5474.5	5462.0
5°	5959.7	5882.2	5709.6	5544.5	5286.9	5114.4	4956.8	4846.8	4801.8	4704.2	4681.7
7.5°	5769.6	5667.1	5402.0	5091.9	4789.3	4519.2	4274.1	4029.0	3891.4	3843.9	3791.4
10°	5572.1	5392.0	4999.3	4651.7	4229.1	3813.9	3428.8	3083.6	2896.1	2763.5	2706.0
12.5°	5414.5	5174.4	4674.2	4154.0	3596.3	3041.1	2593.5	2230.8	2018.2	1918.2	1873.2
15°	5236.9	4919.3	4319.1	3661.4	2966.1	2335.9	1898.2	1613.1	1528.1	1480.5	1473.0
17.5°	5049.4	4681.7	3934.0	3176.2	2350.9	1758.1	1475.5	1360.5	1323.0	1303.0	1293.0
20°	4874.3	4469.1	3538.8	2636.0	1840.7	1410.5	1278.0	1217.9	1215.4	1225.5	1223.0
22.5°	4626.7	4191.5	3148.7	2135.8	1470.5	1228.0	1142.9	1127.9	1142.9	1155.4	1160.4
25°	4486.7	3964.0	2713.5	1695.6	1215.4	1090.4	1062.9	1057.9	1080.4	1095.4	1092.9
27.5°	4341.6	3728.9	2308.4	1358.0	1065.4	992.9	987.9	992.9	1015.4	1037.9	1035.4
30°	4229.1	3541.3	1928.2	1135.4	950.4	922.8	917.8	922.8	935.3	937.8	937.8
32.5°	4136.5	3318.7	1605.6	985.4	880.3	857.8	862.8	860.3	862.8	865.3	867.8
35°	4081.5	3186.2	1340.5	892.8	822.8	805.3	802.8	795.3	797.8	800.3	797.8
37.5°	4199.0	3121.2	1130.4	827.8	782.8	767.8	762.8	757.8	750.3	750.3	750.3
40°	4376.6	3086.1	1002.9	785.3	752.8	735.3	720.3	715.3	715.3	717.8	720.3
42.5°	4729.2	3143.7	915.3	752.8	715.3	695.3	680.3	682.8	690.3	697.8	692.8
45°	5239.4	3318.7	875.3	727.8	692.8	665.2	655.2	652.7	660.2	672.7	682.8
47.5°	5907.2	3591.3	860.3	705.3	677.7	640.2	627.7	635.2	645.2	662.7	655.2
50°	7000.1	4204.1	872.8	685.3	655.2	627.7	612.7	605.2	612.7	625.2	630.2
52.5°	8428.1	5317.0	920.3	675.2	640.2	617.7	592.7	580.2	587.7	597.7	597.7
55°	10136.2	6837.5	1052.9	662.7	615.2	602.7	575.2	550.2	555.2	555.2	552.7
57.5°	11641.8	7985.4	1210.4	645.2	600.2	582.7	547.7	517.7	512.7	515.2	517.7
60°	12317.0	8290.6	1285.5	640.2	600.2	557.7	510.2	480.2	472.7	467.7	467.7
62.5°	12199.5	7762.9	1132.9	617.7	615.2	537.7	475.2	442.7	432.7	422.7	425.2
65°	11489.2	7010.1	892.8	587.7	617.7	525.2	440.2	407.7	390.1	377.6	375.1
67.5°	10191.3	5984.7	707.8	565.2	592.7	502.7	410.2	372.6	357.6	345.1	340.1
70°	7972.9	4691.7	615.2	535.2	532.7	447.7	375.1	342.6	320.1	305.1	305.1
72.5°	5169.4	2966.1	527.7	475.2	460.2	375.1	325.1	305.1	287.6	275.1	275.1
75°	2340.9	1378.0	425.2	397.6	375.1	300.1	275.1	265.1	250.1	237.6	237.6
77.5°	840.3	587.7	317.6	312.6	280.1	232.6	222.6	215.1	205.1	192.6	192.6
80°	470.2	372.6	237.6	227.6	195.1	172.6	160.1	160.1	155.1	147.6	145.1
82.5°	297.6	242.6	175.1	152.6	127.5	115.0	110.0	107.5	105.0	95.0	92.5
85°	187.6	165.1	115.0	90.0	75.0	57.5	55.0	52.5	47.5	42.5	42.5
87.5°	85.0	95.0	45.0	27.5	20.0	12.5	7.5	2.5	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)