

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: P477047

Luminaire Tested: **IFLD-M-SA4C-750-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477047  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-750-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

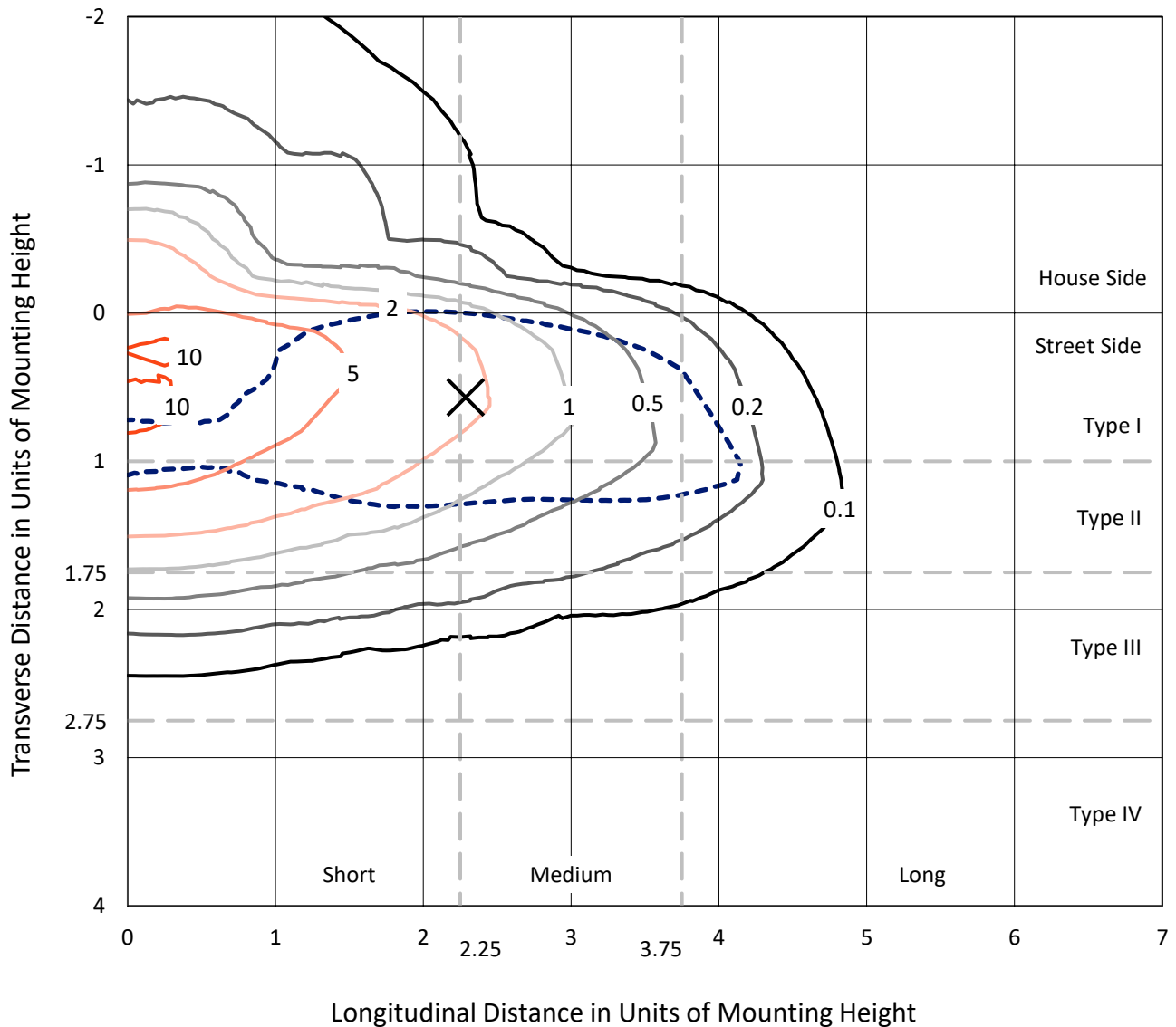
Lumens per Lamp: N/A  
Luminaire Lumens: 29246.2 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

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

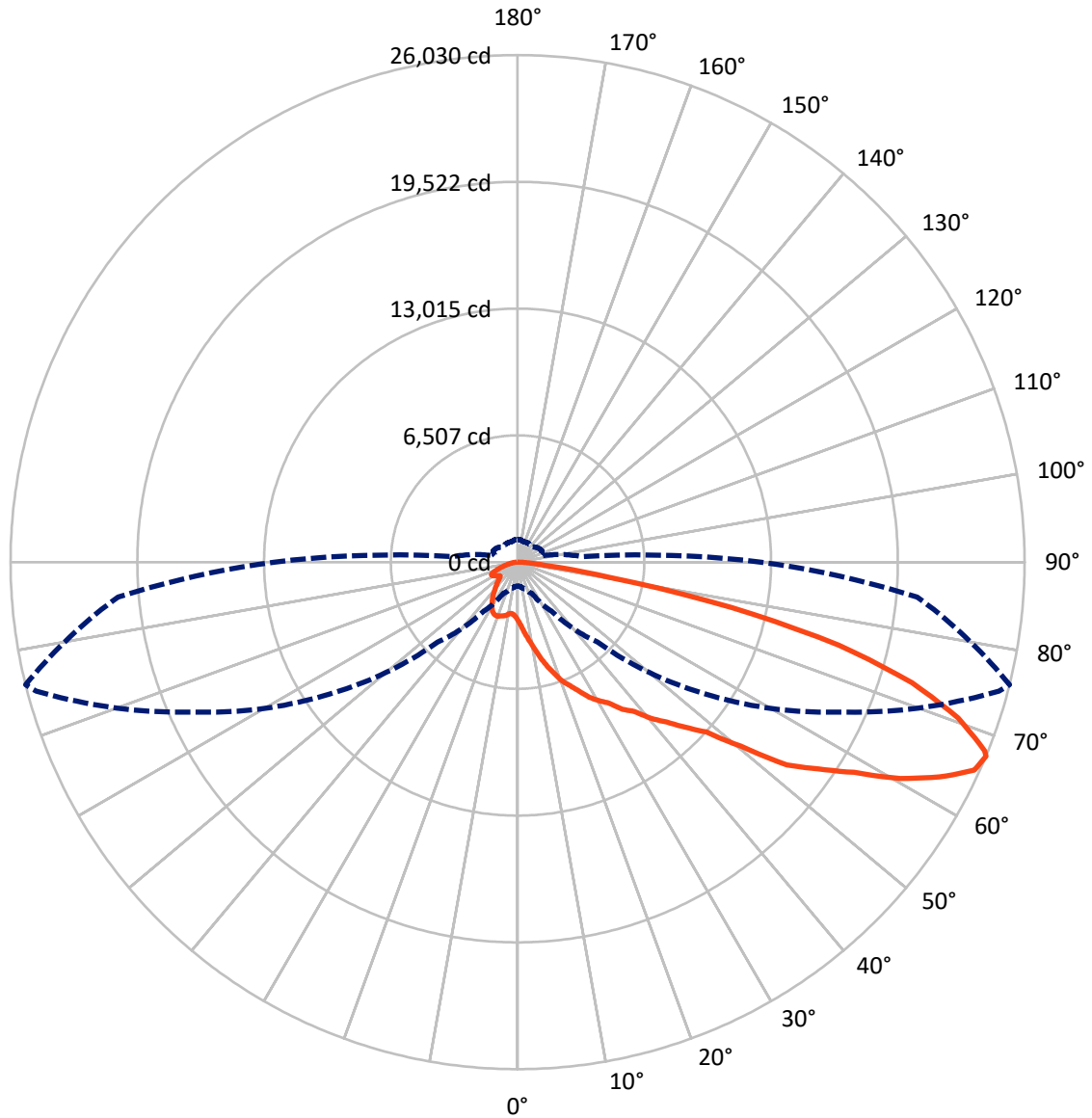
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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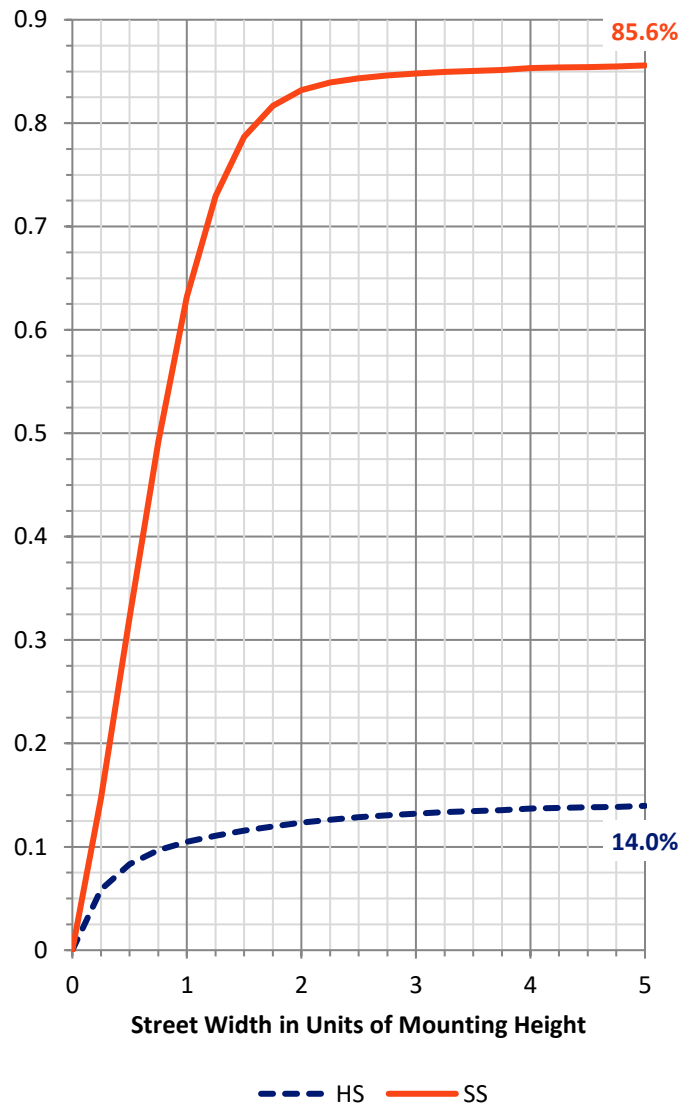
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4160.6	0.0	4160.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	25085.6	0.0	25085.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	29246.2	0.0	29246.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.7	1.2
10°-20°	1300.2	4.4
20°-30°	2417.3	8.3
30°-40°	3832.0	13.1
40°-50°	5300.0	18.1
50°-60°	6519.4	22.3
60°-70°	6066.6	20.7
70°-80°	3044.2	10.4
80°-90°	419.8	1.4
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°	29246.2	100.0
0°-180°	29246.2	100.0

**Coefficient of Utilization**



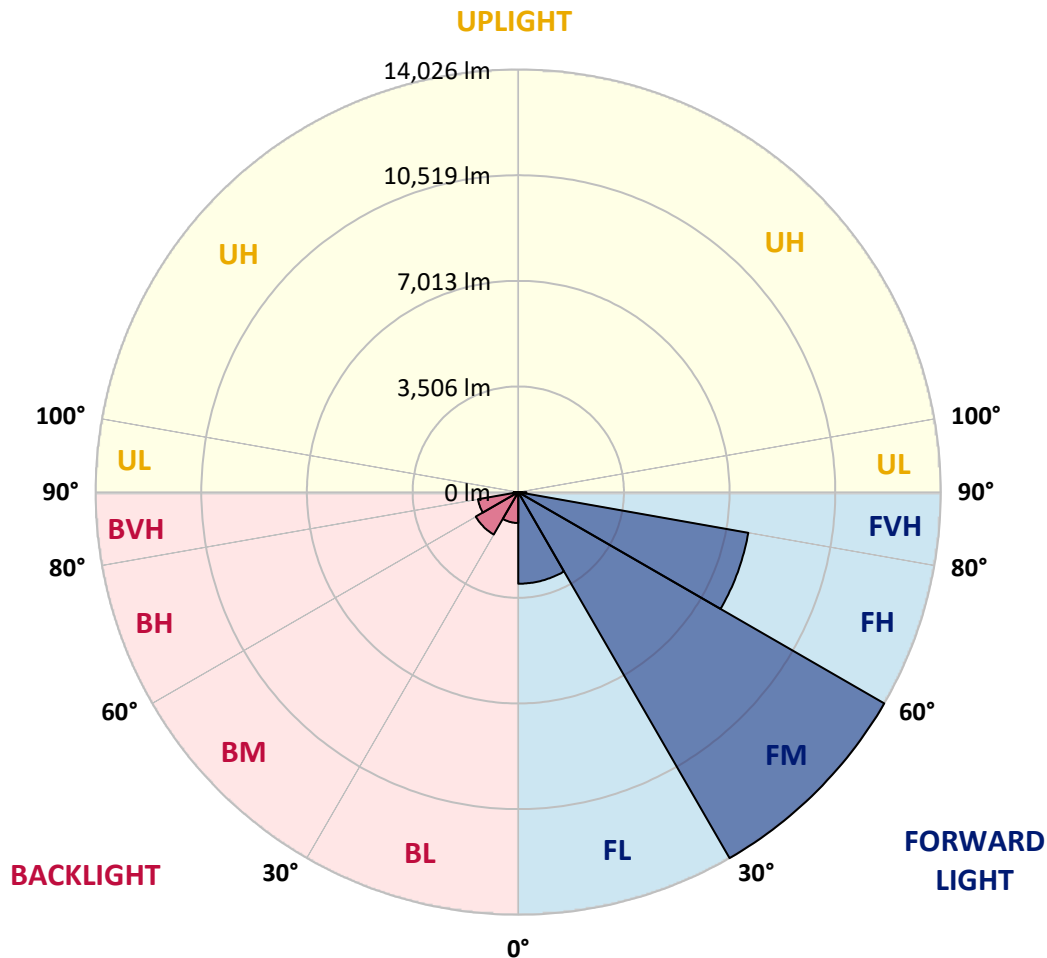
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3039.7	10.4			
FM (30°-60°)	14025.5	48.0			
FH (60°-80°)	7752.9	26.5			G4/12000
FVH (80°-90°)	267.4	0.9			G3/500
BL (0°-30°)	1024.6	3.5	B3/2500		
BM (30°-60°)	1625.9	5.6	B2/2500		
BH (60°-80°)	1357.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	152.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9
2.5°	4152.7	4102.7	4052.8	3946.1	3909.4	3809.5	3626.1	3422.8	3256.2	3232.9	3116.2
5°	5152.6	5079.3	5062.6	5002.6	4812.6	4619.3	4319.4	3992.8	3586.2	3616.1	3216.2
7.5°	5902.5	5859.2	5769.2	5712.5	5599.2	5342.6	5032.6	4599.3	4082.7	3982.8	3439.5
10°	6469.1	6409.1	6405.7	6355.8	6295.8	6032.5	5795.8	5212.6	4549.3	4412.7	3712.8
12.5°	6755.7	6745.7	6922.3	6922.3	6899.0	6789.0	6382.4	5849.2	4992.6	4946.0	4029.4
15°	7065.7	6982.3	7135.6	7252.3	7312.3	7368.9	7032.3	6469.1	5559.2	5469.2	4369.4
17.5°	7065.7	7059.0	7212.3	7405.6	7718.9	7792.2	7608.9	7039.0	6029.1	5962.5	4742.7
20°	6945.7	7042.3	7149.0	7408.9	7748.9	8045.5	8098.8	7622.2	6549.1	6495.7	5165.9
22.5°	7505.6	7412.3	7522.3	7622.2	7885.5	8335.5	8482.1	8135.5	7095.6	6892.3	5549.2
25°	8445.5	8382.1	8302.1	8155.5	8265.5	8462.1	8685.4	8515.4	7562.2	7335.6	5919.1
27.5°	9362.0	9365.3	9192.0	8872.1	8635.4	8675.4	8938.7	8848.7	7955.5	7855.5	6172.4
30°	10665.1	10585.1	10391.8	9958.6	9495.3	9115.4	9072.0	9158.7	8455.5	8262.1	6535.7
32.5°	11641.7	11658.3	11385.0	10761.8	10128.5	9818.6	9438.6	9475.3	8772.1	8628.8	6825.7
35°	12431.5	12411.6	12218.2	11701.7	10951.8	10578.5	10065.2	9855.3	9508.6	9282.0	7269.0
37.5°	13284.8	13121.4	12808.2	12224.9	11745.0	11228.4	10728.5	10255.2	9998.6	9725.3	7648.9
40°	13628.0	13628.0	13208.1	12941.5	12371.6	11981.6	11658.3	10781.8	10595.1	10541.8	8135.5
42.5°	13384.7	13534.7	13361.4	13058.1	12824.8	12331.6	12244.9	11328.4	11331.7	11225.1	8718.7
45°	13361.4	13154.8	13011.5	13088.1	12978.1	12951.5	13171.4	12084.9	12104.9	12091.6	9502.0
47.5°	12691.5	12598.2	12811.5	12938.1	13028.1	13441.4	14074.6	12988.1	13131.4	13031.5	10405.2
50°	12024.9	12008.3	12141.6	12601.5	12991.5	13671.4	14934.5	14381.3	14851.2	14844.5	12041.6
52.5°	10198.5	10375.2	10898.4	11871.6	12834.8	13984.7	15584.4	16161.0	17057.5	17300.8	13398.1
55°	8452.1	8358.8	9132.0	10545.2	12151.6	14108.0	16311.0	17230.9	18550.7	18727.3	14791.2
57.5°	6575.7	6749.0	7358.9	8715.4	10738.5	13498.1	16844.2	18287.4	20237.1	20373.7	16407.6
60°	4906.0	4929.3	5599.2	6692.4	8858.7	12121.6	17017.6	19370.6	22170.1	22560.1	18100.7
62.5°	3086.2	3226.2	3736.1	4812.6	6669.0	10195.2	16241.0	20027.1	24196.5	24299.8	19807.2
65°	1663.1	1753.1	2136.4	2812.9	4659.3	7712.2	14181.3	19633.8	25149.7	25763.0	20567.0
67°	1229.8	1246.5	1423.1	1796.4	3116.2	5805.8	11825.0	18210.7	25583.0	26029.6	20597.0
67.5°	1153.2	1176.5	1316.5	1613.1	2762.9	5345.9	11208.4	17704.1	25389.7	25869.6	20363.7
70°	986.5	993.2	1026.5	1109.8	1549.8	3216.2	7632.2	14507.9	23533.3	23993.2	18727.3
72.5°	876.5	883.2	896.5	913.2	1049.8	1859.7	4642.7	11165.1	20453.7	21187.0	16157.7
75°	769.9	793.2	799.9	786.6	893.2	1209.8	2469.6	8205.5	16684.3	17040.9	12564.9
77.5°	653.2	663.2	676.6	689.9	796.6	903.2	1186.5	5539.2	11451.7	11235.1	6795.7
80°	549.9	553.3	563.3	573.3	689.9	689.9	673.2	2992.9	5002.6	4782.6	2296.3
82.5°	393.3	416.6	439.9	466.6	573.3	463.3	439.9	1333.1	1583.1	1506.5	776.6
85°	153.3	186.6	290.0	320.0	363.3	250.0	293.3	576.6	659.9	653.2	290.0
87.5°	26.7	30.0	80.0	123.3	133.3	86.7	140.0	206.6	246.6	266.6	106.7
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°	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9	2992.9
2.5°	3019.6	2916.2	2792.9	2669.6	2589.6	2463.0	2453.0	2376.3	2366.3	2339.7	2353.0
5°	3042.9	2919.6	2669.6	2473.0	2383.0	2309.7	2326.3	2293.0	2283.0	2266.3	2239.7
7.5°	3226.2	2982.9	2609.6	2439.6	2373.0	2339.7	2339.7	2299.7	2269.7	2289.7	2309.7
10°	3346.2	3012.9	2656.3	2486.3	2433.0	2359.7	2386.3	2336.3	2353.0	2313.0	2313.0
12.5°	3539.5	3182.9	2752.9	2556.3	2469.6	2403.0	2429.7	2373.0	2359.7	2363.0	2353.0
15°	3799.5	3296.2	2796.3	2596.3	2536.3	2453.0	2433.0	2383.0	2333.0	2316.3	2336.3
17.5°	4042.8	3436.2	2826.3	2619.6	2523.0	2429.7	2406.3	2343.0	2326.3	2276.3	2236.3
20°	4332.7	3602.8	2866.3	2639.6	2473.0	2379.7	2319.7	2256.3	2199.7	2169.7	2183.0
22.5°	4526.0	3689.5	2886.3	2599.6	2399.7	2313.0	2186.4	2143.0	2063.0	2029.7	2003.0
25°	4842.6	3796.1	2836.3	2489.6	2269.7	2129.7	2016.4	1956.4	1899.7	1856.4	1843.1
27.5°	4922.6	3876.1	2719.6	2303.0	2063.0	1916.4	1819.7	1746.4	1709.8	1643.1	1629.8
30°	5155.9	3796.1	2546.3	2076.4	1866.4	1716.4	1619.8	1566.4	1479.8	1463.1	1426.5
32.5°	5305.9	3819.5	2326.3	1856.4	1639.8	1506.5	1443.1	1389.8	1366.5	1286.5	1266.5
35°	5555.9	3739.5	2103.0	1653.1	1453.1	1349.8	1296.5	1279.8	1203.2	1166.5	1133.2
37.5°	5715.8	3692.8	1879.7	1423.1	1249.8	1206.5	1223.2	1153.2	1059.8	989.9	966.5
40°	5995.8	3676.1	1626.4	1233.2	1109.8	1099.8	1153.2	1019.9	849.9	789.9	756.6
42.5°	6399.1	3562.8	1429.8	1063.2	999.9	1043.2	1053.2	849.9	753.2	703.2	679.9
45°	6785.7	3586.2	1236.5	879.9	869.9	933.2	909.9	719.9	663.2	626.6	646.6
47.5°	7528.9	3702.8	1046.5	733.2	783.2	843.2	706.6	643.2	589.9	563.3	566.6
50°	8678.8	3816.1	879.9	669.9	739.9	763.2	606.6	583.2	579.9	526.6	523.3
52.5°	9368.7	3772.8	849.9	749.9	793.2	763.2	659.9	643.2	616.6	593.2	566.6
55°	10465.2	3899.4	913.2	876.5	899.9	733.2	739.9	733.2	713.2	653.2	669.9
57.5°	11338.4	3982.8	996.5	979.9	966.5	763.2	773.2	776.6	763.2	736.6	759.9
60°	12538.2	4149.4	1083.2	1086.5	1089.8	829.9	846.5	866.5	863.2	853.2	859.9
62.5°	13274.8	4072.7	1179.8	1233.2	1216.5	966.5	963.2	976.5	976.5	993.2	1003.2
65°	13164.8	3789.5	1229.8	1363.1	1276.5	1066.5	1066.5	1073.2	1076.5	1109.8	1113.2
67°	12504.9	3282.9	1203.2	1383.1	1276.5	1106.5	1106.5	1113.2	1089.8	1176.5	1149.8
67.5°	12198.2	3132.9	1179.8	1366.5	1266.5	1103.2	1103.2	1106.5	1086.5	1169.8	1143.2
70°	10608.5	2326.3	1016.5	1209.8	1173.2	1073.2	1073.2	1053.2	1036.5	1146.5	1123.2
72.5°	9055.4	1689.8	816.5	1029.9	1059.8	1033.2	1039.9	989.9	943.2	1019.9	999.9
75°	6935.7	1243.2	636.6	793.2	896.5	966.5	1009.9	883.2	823.2	843.2	806.6
77.5°	3869.4	809.9	503.3	586.6	683.2	899.9	969.9	796.6	673.2	649.9	649.9
80°	1313.1	473.3	369.9	436.6	469.9	796.6	906.5	646.6	529.9	506.6	489.9
82.5°	496.6	290.0	253.3	300.0	300.0	629.9	739.9	496.6	399.9	516.6	526.6
85°	226.6	173.3	166.6	173.3	173.3	386.6	523.3	323.3	359.9	310.0	273.3
87.5°	90.0	83.3	76.7	73.3	60.0	66.7	180.0	86.7	163.3	43.3	40.0
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)