

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: P480369

Luminaire Tested: **IFLD-L-SA7E-722-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480369  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-722-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

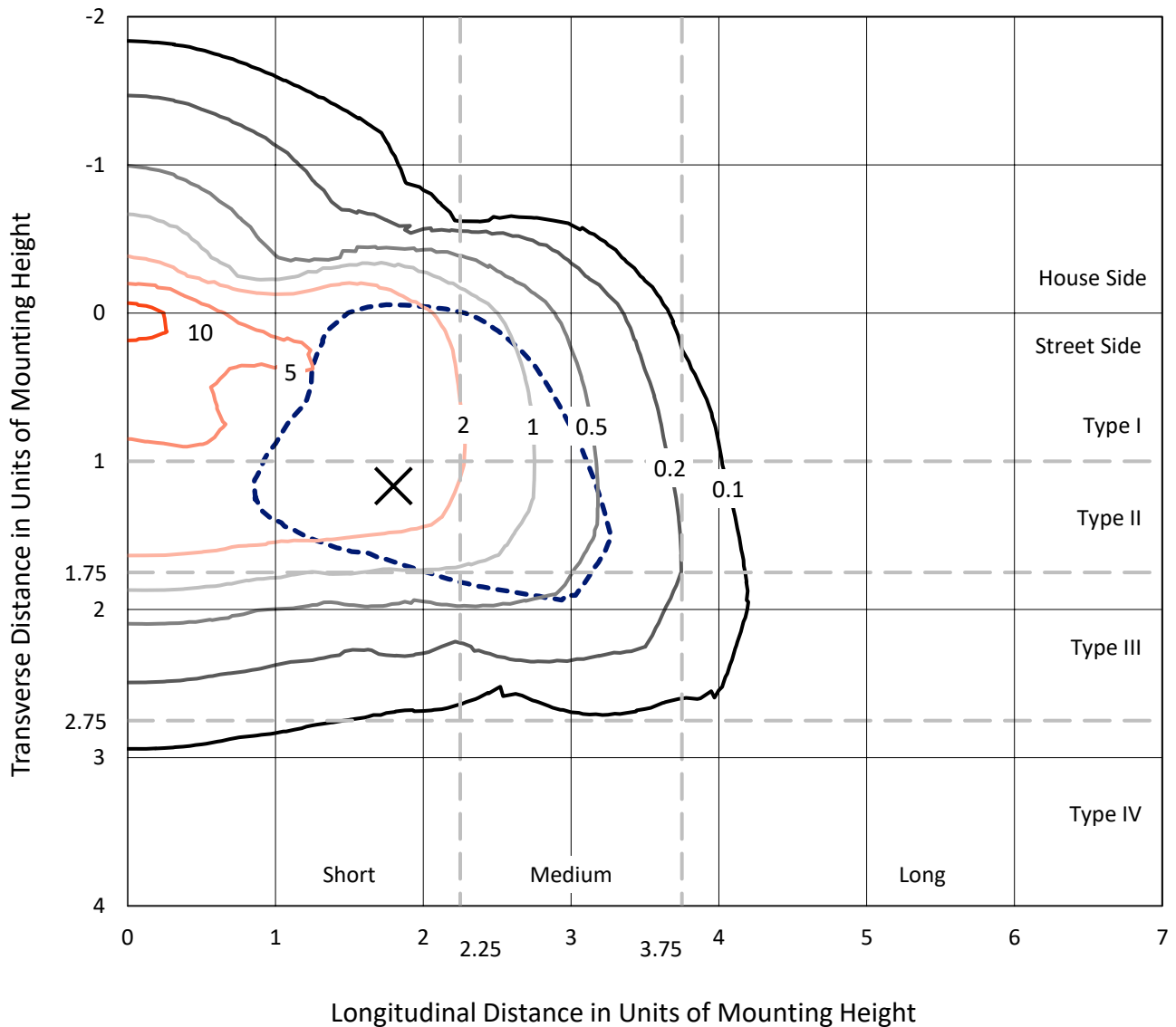
Lumens per Lamp: N/A  
Luminaire Lumens: 41030.2 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7  
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

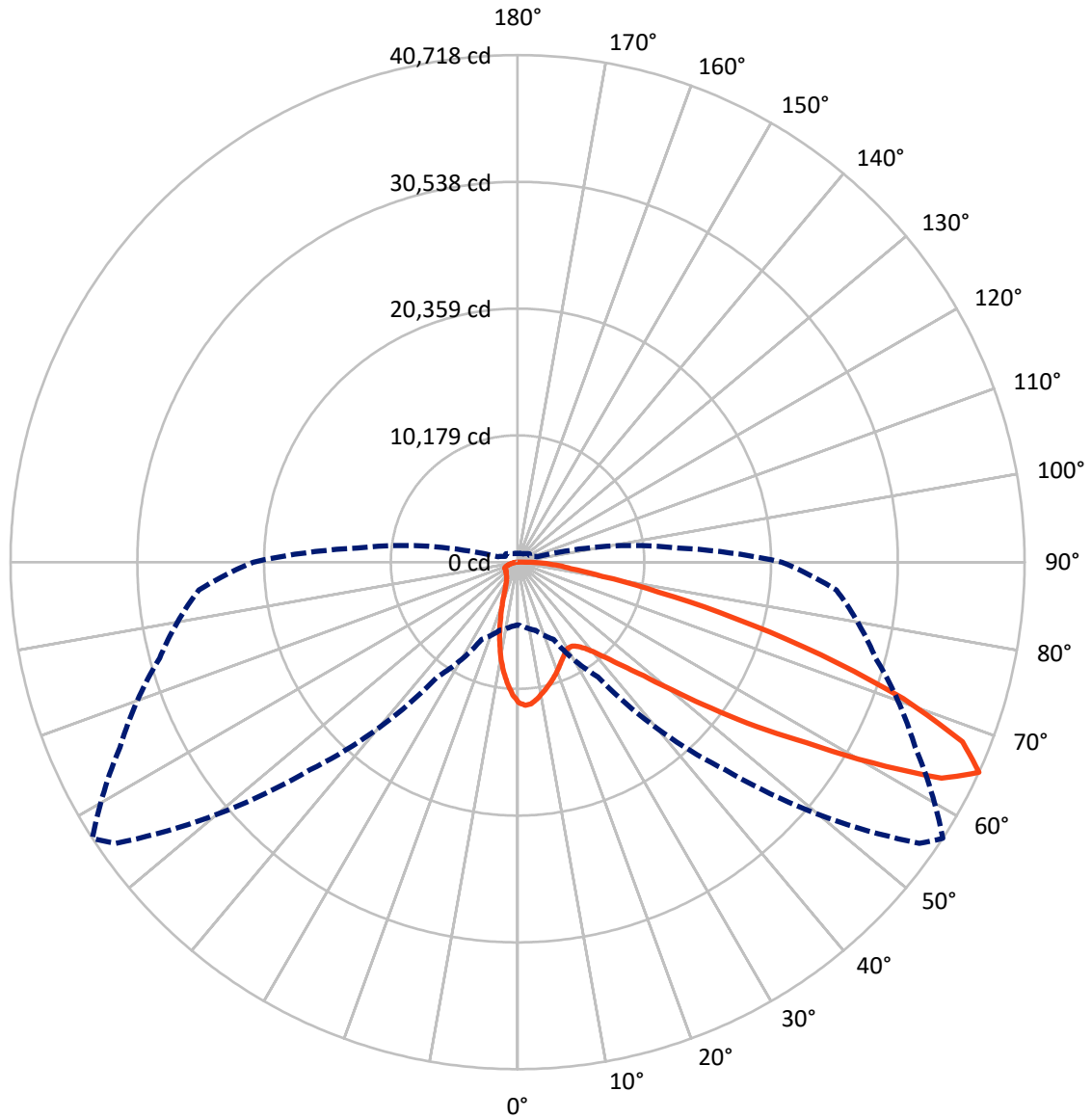
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P480369  
CATALOG NUMBER: IFLD-L-SA7E-722-U-SL3

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-L-SA7E-722-U-SL3

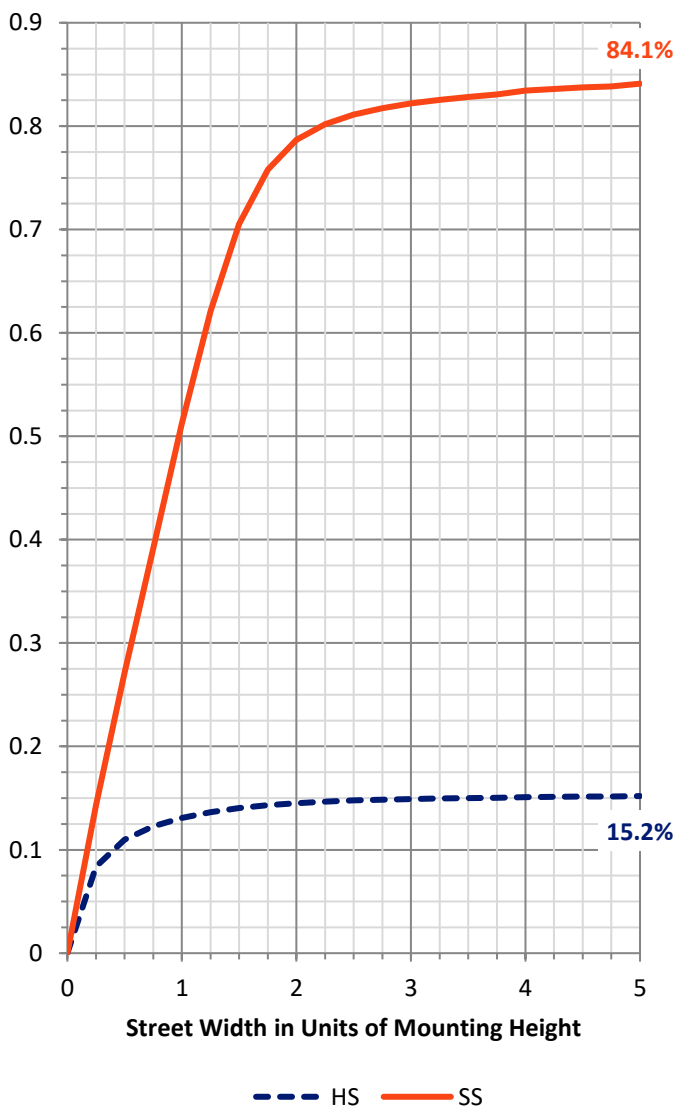
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6292.4	0.0	6292.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	34737.8	0.0	34737.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	41030.2	0.0	41030.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	944.8	2.3
10°-20°	2033.4	5.0
20°-30°	2629.1	6.4
30°-40°	3537.9	8.6
40°-50°	5641.3	13.7
50°-60°	9963.9	24.3
60°-70°	10961.6	26.7
70°-80°	4585.4	11.2
80°-90°	732.8	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°	41030.2	100.0
0°-180°	41030.2	100.0

**Coefficient of Utilization**



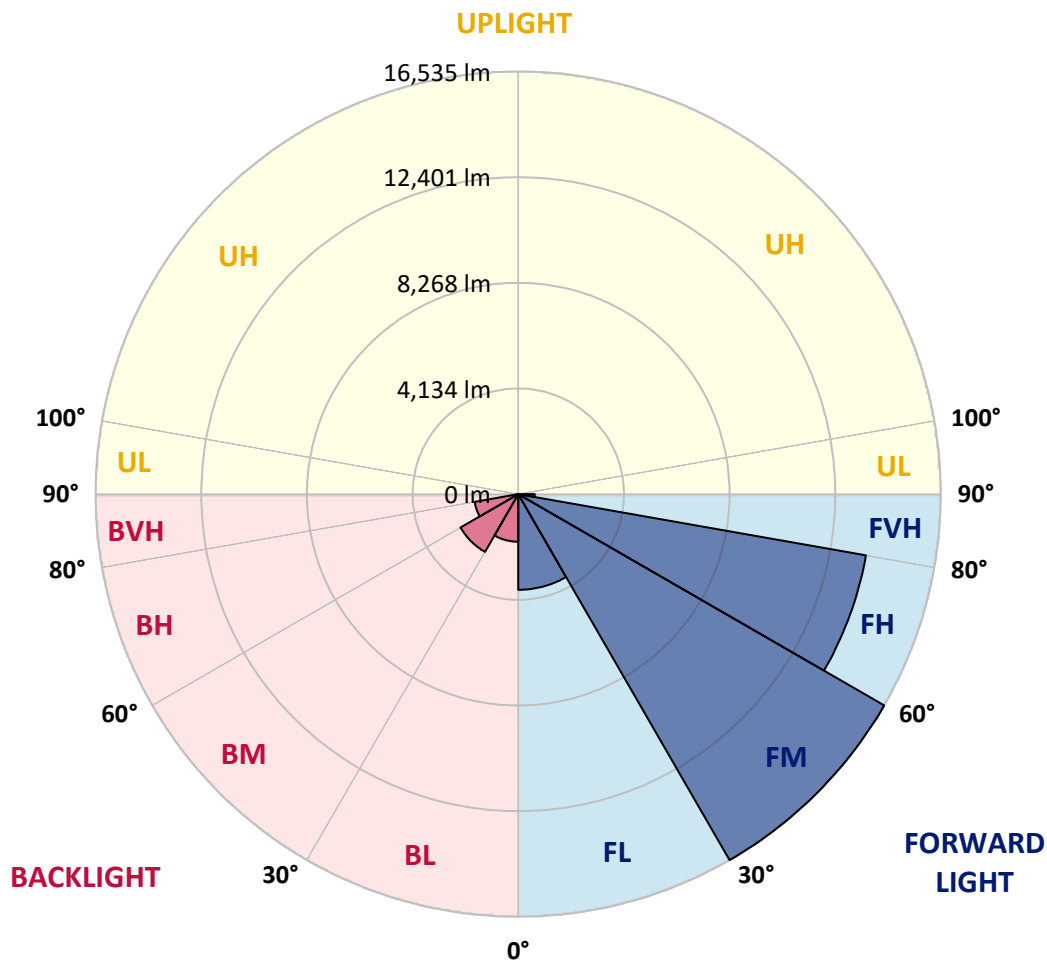
REPORT NUMBER: P480369  
 CATALOG NUMBER: IFLD-L-SA7E-722-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3743.8	9.1			
FM (30°-60°)	16535.1	40.3			
FH (60°-80°)	13812.0	33.7			G5
FVH (80°-90°)	646.9	1.6			G4/750
BL (0°-30°)	1863.5	4.5	B3/2500		
BM (30°-60°)	2607.9	6.4	B3/5000		
BH (60°-80°)	1735.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	86.0	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7
2.5°	11587.4	11605.9	11605.9	11642.8	11518.2	11578.2	11568.9	11513.5	11532.0	11435.1	11338.1
5°	11259.6	11245.8	11319.6	11328.9	11425.8	11453.5	11476.6	11439.7	11448.9	11236.5	11144.2
7.5°	10419.4	10414.8	10539.5	10645.6	10848.8	11038.0	11162.7	11125.8	11176.5	11042.7	10825.7
10°	9422.3	9528.4	9657.7	9763.9	10137.8	10377.9	10701.0	10733.4	10927.2	10894.9	10502.5
12.5°	8674.4	8720.6	8817.5	9122.2	9463.8	9860.8	10322.5	10364.0	10553.3	10645.6	10304.0
15°	8060.4	8101.9	8226.6	8452.8	8836.0	9306.9	9893.1	9999.3	10377.9	10410.2	10045.5
17.5°	7612.6	7644.9	7728.0	7954.2	8268.1	8872.9	9426.9	9616.2	10114.7	10271.7	9777.7
20°	7437.2	7367.9	7414.1	7557.2	7871.1	8337.4	9052.9	9219.1	9856.2	10165.5	9523.8
22.5°	7358.7	7298.7	7326.4	7317.1	7566.4	7898.8	8651.3	8826.7	9611.5	10040.9	9297.6
25°	7418.7	7418.7	7391.0	7367.9	7395.6	7612.6	8217.4	8489.7	9283.8	9934.7	9066.8
27.5°	7741.9	7617.2	7631.1	7534.1	7506.4	7506.4	8023.5	8185.0	9177.6	9874.7	8877.5
30°	7949.6	8009.6	8014.2	7871.1	7728.0	7469.5	7843.4	8000.4	9089.9	9948.5	8766.7
32.5°	8480.5	8452.8	8374.3	8346.6	8134.3	7843.4	7931.1	8037.3	9039.1	10114.7	8799.0
35°	9011.4	8997.5	9002.2	8988.3	8766.7	8337.4	8166.6	8309.7	9131.4	10405.6	8909.8
37.5°	9560.8	9597.7	9754.7	9754.7	9519.2	9052.9	8826.7	8785.2	9468.4	10881.1	9173.0
40°	10110.1	10202.5	10401.0	10714.9	10382.5	9948.5	9583.8	9519.2	9874.7	11518.2	9805.4
42.5°	10636.4	10788.7	11181.2	11647.4	11536.6	11102.7	10617.9	10544.1	10710.3	12464.5	10687.2
45°	11310.4	11439.7	12058.3	12773.8	12926.2	12543.0	11975.2	11915.2	11905.9	13849.5	11901.3
47.5°	12335.3	12473.8	13092.4	13812.6	14283.4	14343.4	13706.4	13641.7	13420.2	15719.2	13678.7
50°	13618.7	13844.9	14366.5	15206.7	15890.0	16531.7	16351.6	16162.3	15728.4	17893.5	15931.5
52.5°	14555.8	14832.8	15539.1	16614.8	17819.7	18839.9	19486.2	19486.2	18489.1	20280.3	18641.4
55°	14805.1	14971.3	15862.3	17418.0	19481.6	22062.2	23414.9	23313.3	21776.0	22791.6	21794.5
57.5°	13812.6	14029.5	15109.8	16739.4	20354.1	25076.8	27315.8	27338.9	25367.6	25709.3	24906.0
60°	11079.6	11148.8	12423.0	14602.0	19513.9	27505.1	32643.2	32730.9	29453.2	28308.3	26489.4
62.5°	7658.8	7880.4	8840.6	10751.8	16167.0	27232.7	37781.4	38215.3	32726.3	29679.4	26738.7
65°	5041.2	5175.1	5687.5	6850.9	11255.0	23604.1	39378.7	40717.5	35228.5	29757.9	25695.4
67.5°	3656.3	3679.3	3831.7	4431.8	6763.2	16974.9	36650.4	38538.5	36165.6	29102.4	23248.7
70°	2954.6	2973.0	3028.4	3411.6	4367.2	10622.6	29891.8	32851.0	33354.2	25995.5	18724.5
72.5°	2400.6	2423.7	2492.9	2853.0	3600.9	5909.1	21859.1	25464.6	27131.1	19232.3	12446.1
75°	1888.1	1906.6	2072.8	2428.3	3383.9	4057.9	14500.4	18032.0	18258.2	11241.2	5826.0
77.5°	1292.6	1324.9	1528.1	2059.0	3185.4	3550.1	9039.1	11550.5	10364.0	4399.5	2003.6
80°	821.7	867.9	987.9	1560.4	2816.1	3388.5	5622.9	6897.0	4538.0	1505.0	964.8
82.5°	484.7	530.9	650.9	1011.0	2211.3	3143.8	3961.0	4316.4	2128.2	771.0	581.7
85°	267.8	300.1	392.4	609.4	1297.2	2793.0	3171.5	3097.7	1218.8	410.9	364.7
87.5°	87.7	101.6	143.1	244.7	535.5	1315.7	1902.0	1786.6	632.5	189.3	143.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480369  
 CATALOG NUMBER: IFLD-L-SA7E-722-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7	11282.7
2.5°	11273.5	11259.6	11051.9	10894.9	10627.2	10405.6	10317.9	10197.8	10193.2	10105.5	10082.4
5°	11001.1	10858.0	10539.5	10234.8	9759.3	9440.7	9149.9	8946.8	8863.7	8683.6	8642.1
7.5°	10650.3	10461.0	9971.6	9399.2	8840.6	8342.0	7889.6	7437.2	7183.3	7095.6	6998.6
10°	10285.6	9953.2	9228.4	8586.7	7806.5	7040.2	6329.2	5692.1	5345.9	5101.2	4995.0
12.5°	9994.7	9551.5	8628.2	7668.0	6638.5	5613.7	4787.3	4117.9	3725.5	3540.9	3457.8
15°	9666.9	9080.6	7972.7	6758.5	5475.2	4311.8	3503.9	2977.6	2820.7	2733.0	2719.1
17.5°	9320.7	8642.1	7261.7	5862.9	4339.5	3245.4	2723.7	2511.4	2442.1	2405.2	2386.7
20°	8997.5	8249.7	6532.3	4865.8	3397.7	2603.7	2359.0	2248.2	2243.6	2262.1	2257.5
22.5°	8540.5	7737.2	5812.2	3942.5	2714.5	2266.7	2109.7	2082.0	2109.7	2132.8	2142.1
25°	8282.0	7317.1	5008.9	3130.0	2243.6	2012.8	1962.0	1952.8	1994.3	2022.0	2017.4
27.5°	8014.2	6883.2	4261.0	2506.8	1966.6	1832.7	1823.5	1832.7	1874.3	1915.8	1911.2
30°	7806.5	6537.0	3559.3	2095.9	1754.3	1703.5	1694.3	1703.5	1726.6	1731.2	1731.2
32.5°	7635.7	6126.1	2963.8	1818.9	1625.0	1583.5	1592.7	1588.1	1592.7	1597.3	1601.9
35°	7534.1	5881.4	2474.4	1648.1	1518.8	1486.5	1481.9	1468.0	1472.7	1477.3	1472.7
37.5°	7751.1	5761.4	2086.7	1528.1	1445.0	1417.3	1408.0	1398.8	1384.9	1384.9	1384.9
40°	8078.9	5696.8	1851.2	1449.6	1389.6	1357.2	1329.6	1320.3	1320.3	1324.9	1329.6
42.5°	8729.8	5802.9	1689.6	1389.6	1320.3	1283.4	1255.7	1260.3	1274.2	1288.0	1278.8
45°	9671.6	6126.1	1615.8	1343.4	1278.8	1228.0	1209.5	1204.9	1218.8	1241.8	1260.3
47.5°	10904.2	6629.3	1588.1	1301.9	1251.1	1181.8	1158.7	1172.6	1191.1	1223.4	1209.5
50°	12921.6	7760.3	1611.2	1264.9	1209.5	1158.7	1131.0	1117.2	1131.0	1154.1	1163.4
52.5°	15557.6	9814.7	1698.9	1246.5	1181.8	1140.3	1094.1	1071.0	1084.9	1103.3	1103.3
55°	18710.7	12621.5	1943.5	1223.4	1135.7	1112.6	1061.8	1015.6	1024.9	1024.9	1020.2
57.5°	21489.8	14740.5	2234.4	1191.1	1108.0	1075.6	1011.0	955.6	946.4	951.0	955.6
60°	22736.2	15303.7	2372.9	1181.8	1108.0	1029.5	941.8	886.4	872.5	863.3	863.3
62.5°	22519.3	14329.6	2091.3	1140.3	1135.7	992.5	877.1	817.1	798.7	780.2	784.8
65°	21208.2	12940.0	1648.1	1084.9	1140.3	969.5	812.5	752.5	720.2	697.1	692.5
67.5°	18812.2	11047.3	1306.5	1043.3	1094.1	927.9	757.1	687.9	660.2	637.1	627.8
70°	14717.4	8660.5	1135.7	987.9	983.3	826.4	692.5	632.5	590.9	563.2	563.2
72.5°	9542.3	5475.2	974.1	877.1	849.4	692.5	600.1	563.2	530.9	507.8	507.8
75°	4321.0	2543.7	784.8	734.0	692.5	554.0	507.8	489.3	461.6	438.6	438.6
77.5°	1551.1	1084.9	586.3	577.1	517.0	429.3	410.9	397.0	378.6	355.5	355.5
80°	867.9	687.9	438.6	420.1	360.1	318.5	295.5	295.5	286.2	272.4	267.8
82.5°	549.4	447.8	323.2	281.6	235.4	212.4	203.1	198.5	193.9	175.4	170.8
85°	346.2	304.7	212.4	166.2	138.5	106.2	101.6	96.9	87.7	78.5	78.5
87.5°	157.0	175.4	83.1	50.8	36.9	23.1	13.8	4.6	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)