

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: P480482

Luminaire Tested: **IFLD-L-SA7A-735-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480482  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-735-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

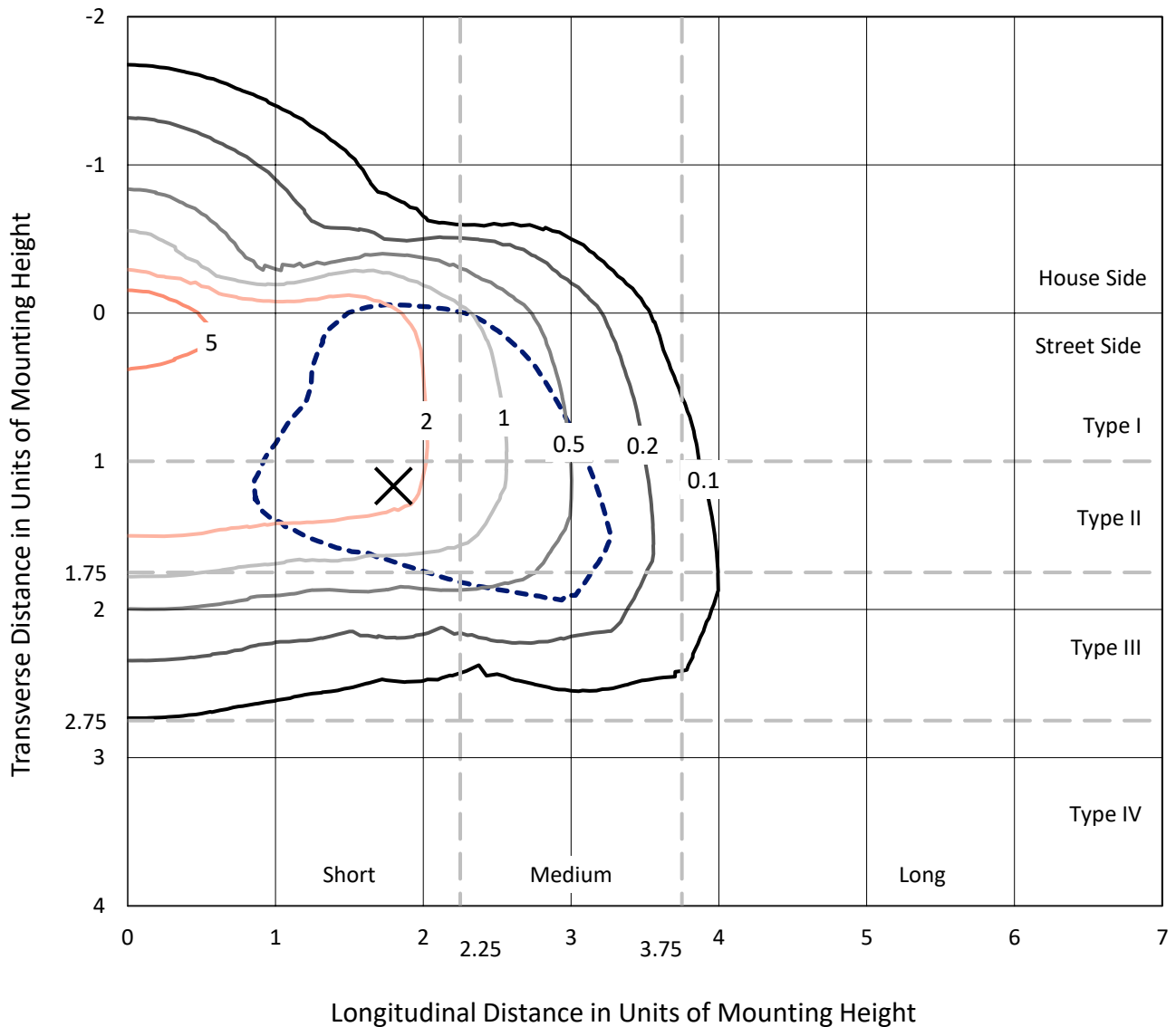
Lumens per Lamp: N/A  
Luminaire Lumens: 30461.9 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6  
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

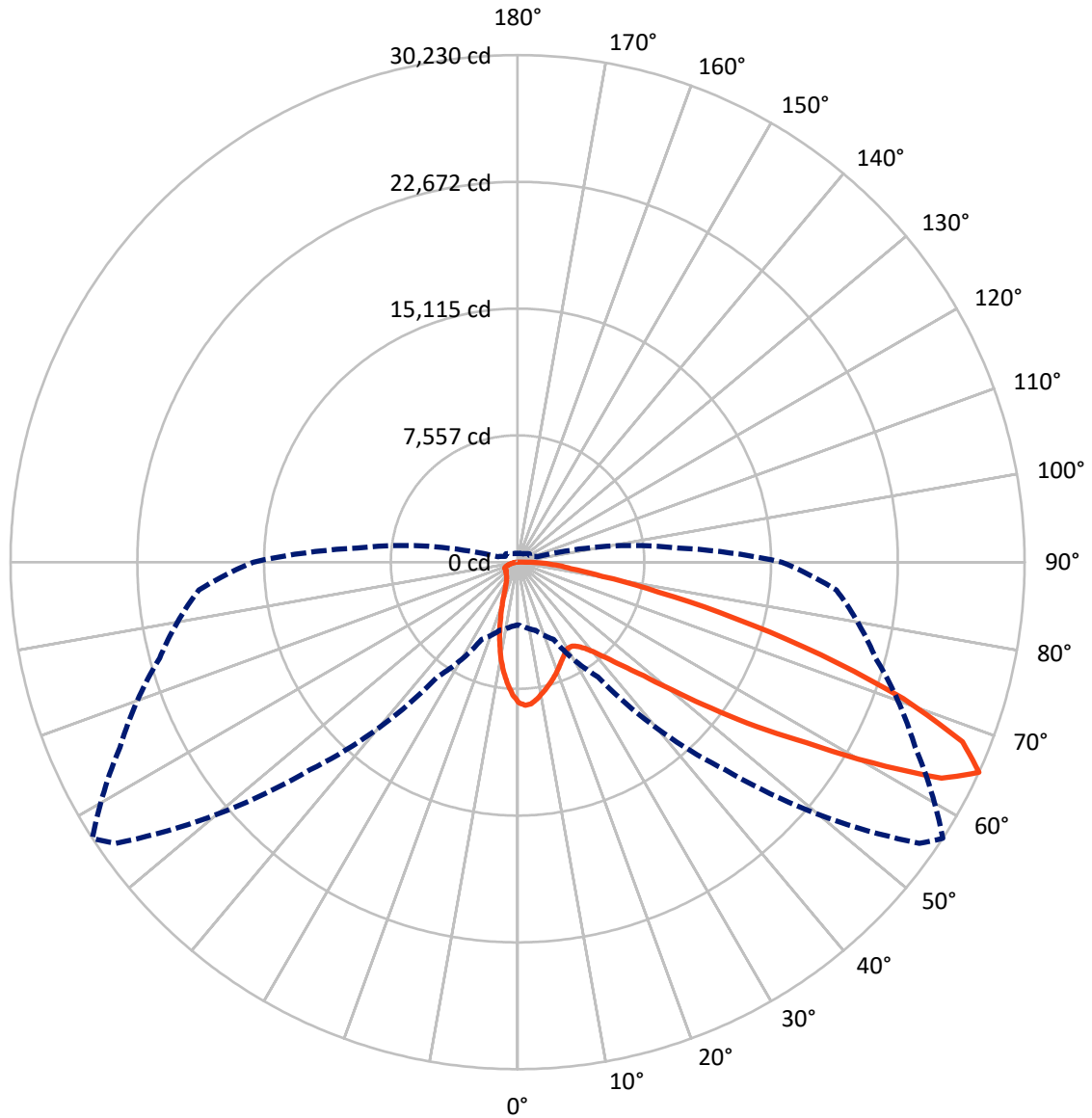
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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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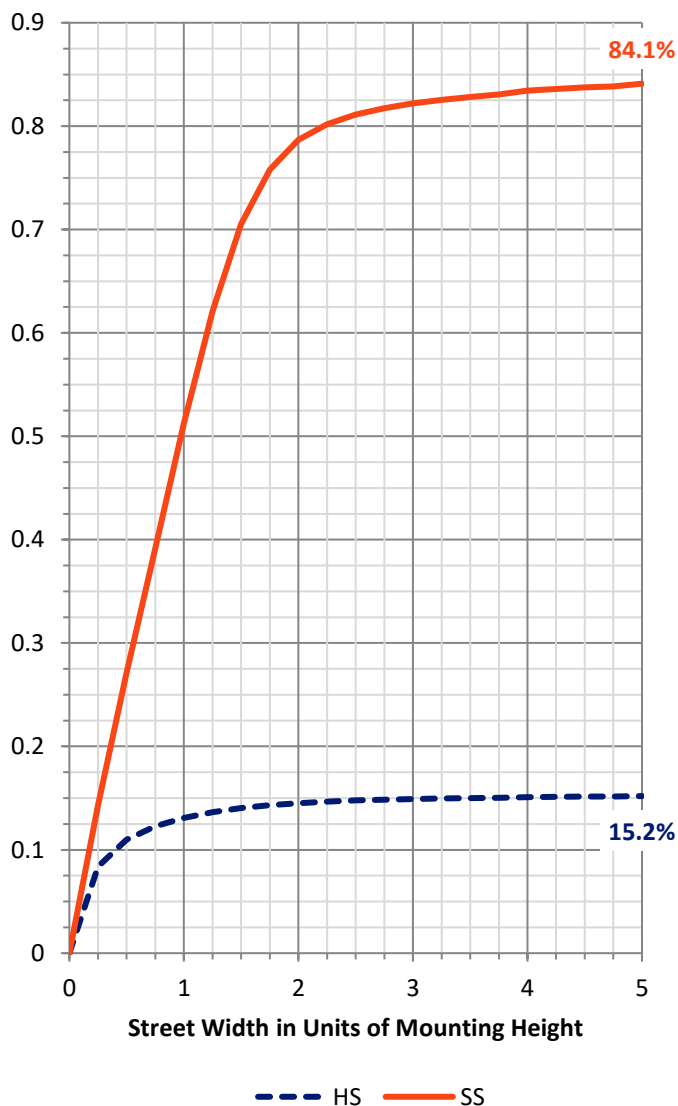
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4671.6	0.0	4671.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	25790.3	0.0	25790.3
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	30461.9	0.0	30461.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	701.5	2.3
10°-20°	1509.7	5.0
20°-30°	1951.9	6.4
30°-40°	2626.6	8.6
40°-50°	4188.2	13.7
50°-60°	7397.4	24.3
60°-70°	8138.2	26.7
70°-80°	3404.3	11.2
80°-90°	544.1	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°	30461.9	100.0
0°-180°	30461.9	100.0

**Coefficient of Utilization**



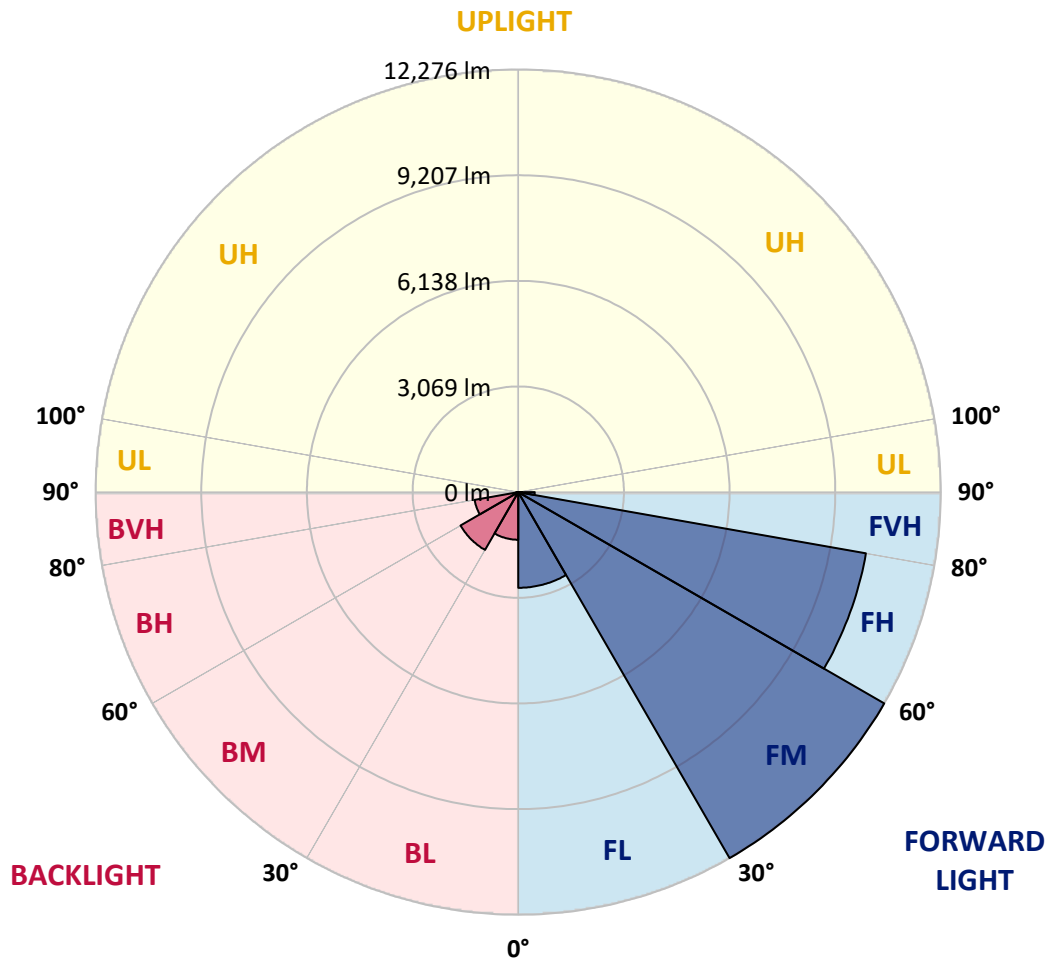
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2779.5	9.1			
FM (30°-60°)	12276.1	40.3			
FH (60°-80°)	10254.4	33.7			G4/12000
FVH (80°-90°)	480.3	1.6			G3/500
BL (0°-30°)	1383.5	4.5	B3/2500		
BM (30°-60°)	1936.2	6.4	B2/2500		
BH (60°-80°)	1288.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	63.8	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6
2.5°	8602.8	8616.5	8616.5	8643.9	8551.4	8595.9	8589.1	8548.0	8561.7	8489.7	8417.7
5°	8359.5	8349.2	8404.0	8410.9	8482.8	8503.4	8520.5	8493.1	8500.0	8342.3	8273.8
7.5°	7735.7	7732.2	7824.8	7903.6	8054.4	8194.9	8287.5	8260.1	8297.8	8198.4	8037.3
10°	6995.3	7074.2	7170.1	7249.0	7526.6	7704.8	7944.7	7968.7	8112.7	8088.7	7797.4
12.5°	6440.1	6474.4	6546.4	6772.6	7026.2	7321.0	7663.7	7694.5	7835.1	7903.6	7650.0
15°	5984.3	6015.1	6107.6	6275.6	6560.1	6909.7	7344.9	7423.8	7704.8	7728.8	7458.0
17.5°	5651.8	5675.8	5737.5	5905.4	6138.5	6587.5	6998.8	7139.3	7509.5	7626.0	7259.3
20°	5521.6	5470.1	5504.4	5610.7	5843.7	6189.9	6721.2	6844.5	7317.5	7547.2	7070.7
22.5°	5463.3	5418.7	5439.3	5432.4	5617.5	5864.3	6423.0	6553.2	7135.9	7454.6	6902.8
25°	5507.9	5507.9	5487.3	5470.1	5490.7	5651.8	6100.8	6303.0	6892.5	7375.8	6731.4
27.5°	5747.8	5655.2	5665.5	5593.5	5573.0	5573.0	5956.8	6076.8	6813.7	7331.2	6590.9
30°	5902.0	5946.6	5950.0	5843.7	5737.5	5545.6	5823.2	5939.7	6748.6	7386.1	6508.7
32.5°	6296.2	6275.6	6217.3	6196.8	6039.1	5823.2	5888.3	5967.1	6710.9	7509.5	6532.6
35°	6690.3	6680.0	6683.5	6673.2	6508.7	6189.9	6063.1	6169.3	6779.4	7725.4	6614.9
37.5°	7098.2	7125.6	7242.1	7242.1	7067.3	6721.2	6553.2	6522.4	7029.6	8078.4	6810.3
40°	7506.0	7574.6	7722.0	7955.0	7708.2	7386.1	7115.3	7067.3	7331.2	8551.4	7279.8
42.5°	7896.8	8009.9	8301.2	8647.4	8565.1	8242.9	7883.0	7828.2	7951.6	9254.0	7934.5
45°	8397.2	8493.1	8952.4	9483.6	9596.8	9312.3	8890.7	8846.1	8839.3	10282.2	8835.9
47.5°	9158.0	9260.9	9720.1	10254.8	10604.4	10649.0	10176.0	10128.0	9963.5	11670.3	10155.4
50°	10110.9	10278.8	10666.1	11289.9	11797.2	12273.6	12139.9	11999.4	11677.2	13284.6	11828.0
52.5°	10806.6	11012.3	11536.7	12335.3	13229.8	13987.3	14467.1	14467.1	13726.8	15056.6	13839.9
55°	10991.7	11115.1	11776.6	12931.6	14463.7	16379.6	17383.8	17308.4	16167.1	16921.1	16180.8
57.5°	10254.8	10415.9	11217.9	12427.8	15111.5	18617.7	20280.0	20297.1	18833.6	19087.3	18490.9
60°	8225.8	8277.2	9223.2	10840.9	14487.7	20420.5	24235.2	24300.3	21866.9	21016.9	19666.5
62.5°	5686.1	5850.6	6563.5	7982.4	12002.8	20218.3	28049.9	28372.1	24296.9	22034.8	19851.6
65°	3742.7	3842.1	4222.6	5086.3	8356.0	17524.4	29235.8	30229.8	26154.6	22093.1	19077.0
67.5°	2714.5	2731.6	2844.8	3290.3	5021.2	12602.6	27210.2	28612.0	26850.3	21606.4	17260.4
70°	2193.5	2207.3	2248.4	2532.9	3242.3	7886.5	22192.5	24389.5	24763.0	19299.8	13901.6
72.5°	1782.3	1799.4	1850.8	2118.1	2673.4	4387.1	16228.8	18905.6	20142.9	14278.6	9240.3
75°	1401.8	1415.5	1538.9	1802.8	2512.3	3012.7	10765.5	13387.5	13555.4	8345.7	4325.4
77.5°	959.7	983.7	1134.5	1528.6	2364.9	2635.7	6710.9	8575.4	7694.5	3266.3	1487.5
80°	610.1	644.4	733.5	1158.5	2090.7	2515.7	4174.6	5120.6	3369.1	1117.3	716.3
82.5°	359.9	394.2	483.3	750.6	1641.7	2334.1	2940.7	3204.6	1580.0	572.4	431.9
85°	198.8	222.8	291.3	452.4	963.1	2073.6	2354.6	2299.8	904.8	305.0	270.8
87.5°	65.1	75.4	106.2	181.7	397.6	976.8	1412.1	1326.4	469.6	140.5	106.2
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°	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6
2.5°	8369.7	8359.5	8205.2	8088.7	7889.9	7725.4	7660.3	7571.2	7567.7	7502.6	7485.5
5°	8167.5	8061.3	7824.8	7598.6	7245.5	7009.1	6793.1	6642.3	6580.6	6447.0	6416.1
7.5°	7907.0	7766.5	7403.2	6978.2	6563.5	6193.3	5857.4	5521.6	5333.1	5267.9	5196.0
10°	7636.3	7389.5	6851.4	6375.0	5795.8	5226.8	4699.0	4226.0	3968.9	3787.3	3708.5
12.5°	7420.3	7091.3	6405.8	5692.9	4928.6	4167.7	3554.2	3057.3	2765.9	2628.8	2567.1
15°	7177.0	6741.7	5919.1	5017.7	4064.9	3201.2	2601.4	2210.7	2094.1	2029.0	2018.7
17.5°	6919.9	6416.1	5391.3	4352.8	3221.8	2409.5	2022.2	1864.5	1813.1	1785.7	1772.0
20°	6680.0	6124.8	4849.8	3612.5	2522.6	1933.1	1751.4	1669.1	1665.7	1679.4	1676.0
22.5°	6340.7	5744.3	4315.1	2927.0	2015.3	1682.9	1566.3	1545.8	1566.3	1583.5	1590.3
25°	6148.8	5432.4	3718.7	2323.8	1665.7	1494.4	1456.6	1449.8	1480.6	1501.2	1497.8
27.5°	5950.0	5110.3	3163.5	1861.1	1460.1	1360.7	1353.8	1360.7	1391.5	1422.4	1418.9
30°	5795.8	4853.2	2642.5	1556.0	1302.4	1264.7	1257.9	1264.7	1281.9	1285.3	1285.3
32.5°	5668.9	4548.2	2200.4	1350.4	1206.4	1175.6	1182.5	1179.0	1182.5	1185.9	1189.3
35°	5593.5	4366.5	1837.1	1223.6	1127.6	1103.6	1100.2	1089.9	1093.3	1096.8	1093.3
37.5°	5754.6	4277.4	1549.2	1134.5	1072.8	1052.2	1045.4	1038.5	1028.2	1028.2	1028.2
40°	5998.0	4229.4	1374.4	1076.2	1031.7	1007.7	987.1	980.2	980.2	983.7	987.1
42.5°	6481.2	4308.3	1254.4	1031.7	980.2	952.8	932.3	935.7	946.0	956.2	949.4
45°	7180.4	4548.2	1199.6	997.4	949.4	911.7	898.0	894.6	904.8	922.0	935.7
47.5°	8095.5	4921.8	1179.0	966.5	928.8	877.4	860.3	870.6	884.3	908.3	898.0
50°	9593.3	5761.5	1196.2	939.1	898.0	860.3	839.7	829.4	839.7	856.9	863.7
52.5°	11550.4	7286.7	1261.3	925.4	877.4	846.6	812.3	795.2	805.4	819.2	819.2
55°	13891.3	9370.5	1442.9	908.3	843.1	826.0	788.3	754.0	760.9	760.9	757.5
57.5°	15954.6	10943.7	1658.9	884.3	822.6	798.6	750.6	709.5	702.6	706.0	709.5
60°	16880.0	11361.9	1761.7	877.4	822.6	764.3	699.2	658.1	647.8	640.9	640.9
62.5°	16718.9	10638.7	1552.6	846.6	843.1	736.9	651.2	606.7	592.9	579.2	582.7
65°	15745.5	9607.0	1223.6	805.4	846.6	719.8	603.2	558.7	534.7	517.5	514.1
67.5°	13966.7	8201.8	970.0	774.6	812.3	688.9	562.1	510.7	490.1	473.0	466.1
70°	10926.6	6429.8	843.1	733.5	730.0	613.5	514.1	469.6	438.7	418.1	418.1
72.5°	7084.5	4064.9	723.2	651.2	630.6	514.1	445.6	418.1	394.2	377.0	377.0
75°	3208.1	1888.5	582.7	545.0	514.1	411.3	377.0	363.3	342.7	325.6	325.6
77.5°	1151.6	805.4	435.3	428.4	383.9	318.7	305.0	294.8	281.0	263.9	263.9
80°	644.4	510.7	325.6	311.9	267.3	236.5	219.4	219.4	212.5	202.2	198.8
82.5°	407.9	332.5	239.9	209.1	174.8	157.7	150.8	147.4	144.0	130.2	126.8
85°	257.1	226.2	157.7	123.4	102.8	78.8	75.4	72.0	65.1	58.3	58.3
87.5°	116.5	130.2	61.7	37.7	27.4	17.1	10.3	3.4	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)