

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: P480093

Luminaire Tested: **IFLD-L-SA7B-735-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480093  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-735-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

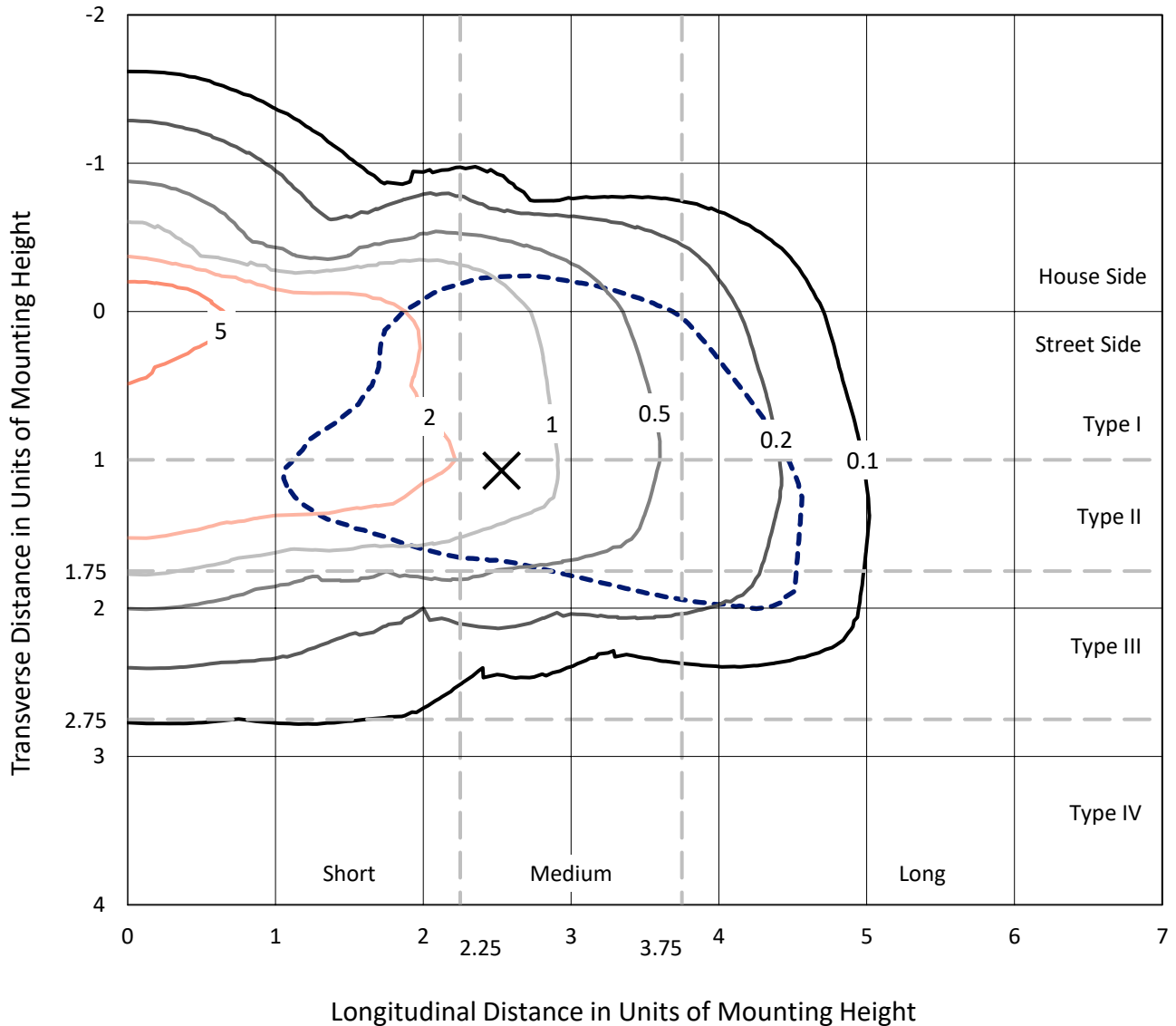
Lumens per Lamp: N/A  
Luminaire Lumens: 35020.8 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 281  
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

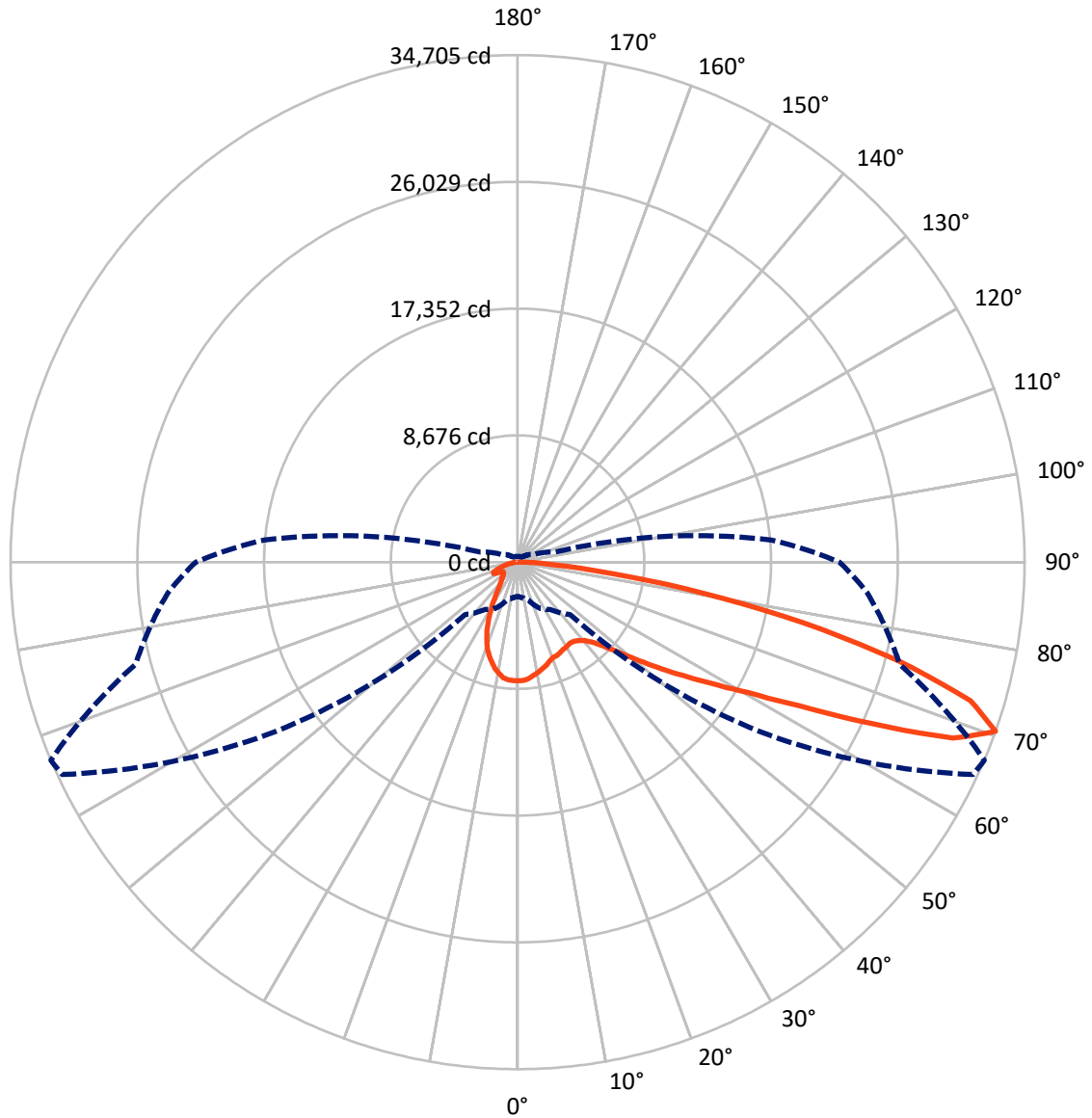
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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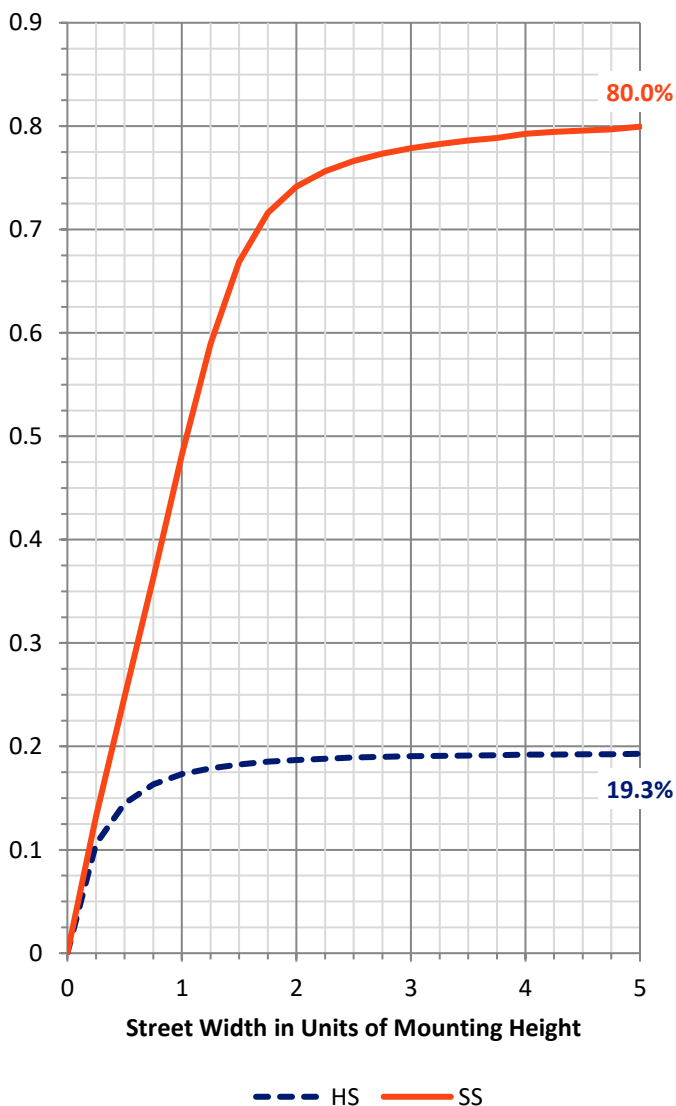
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6820.6	0.0	6820.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	28200.2	0.0	28200.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	35020.8	0.0	35020.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	707.4	2.0
10°-20°	1694.1	4.8
20°-30°	2287.8	6.5
30°-40°	3061.3	8.7
40°-50°	4501.5	12.9
50°-60°	7016.8	20.0
60°-70°	8643.5	24.7
70°-80°	6107.4	17.4
80°-90°	1001.0	2.9
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°	35020.8	100.0
0°-180°	35020.8	100.0

**Coefficient of Utilization**

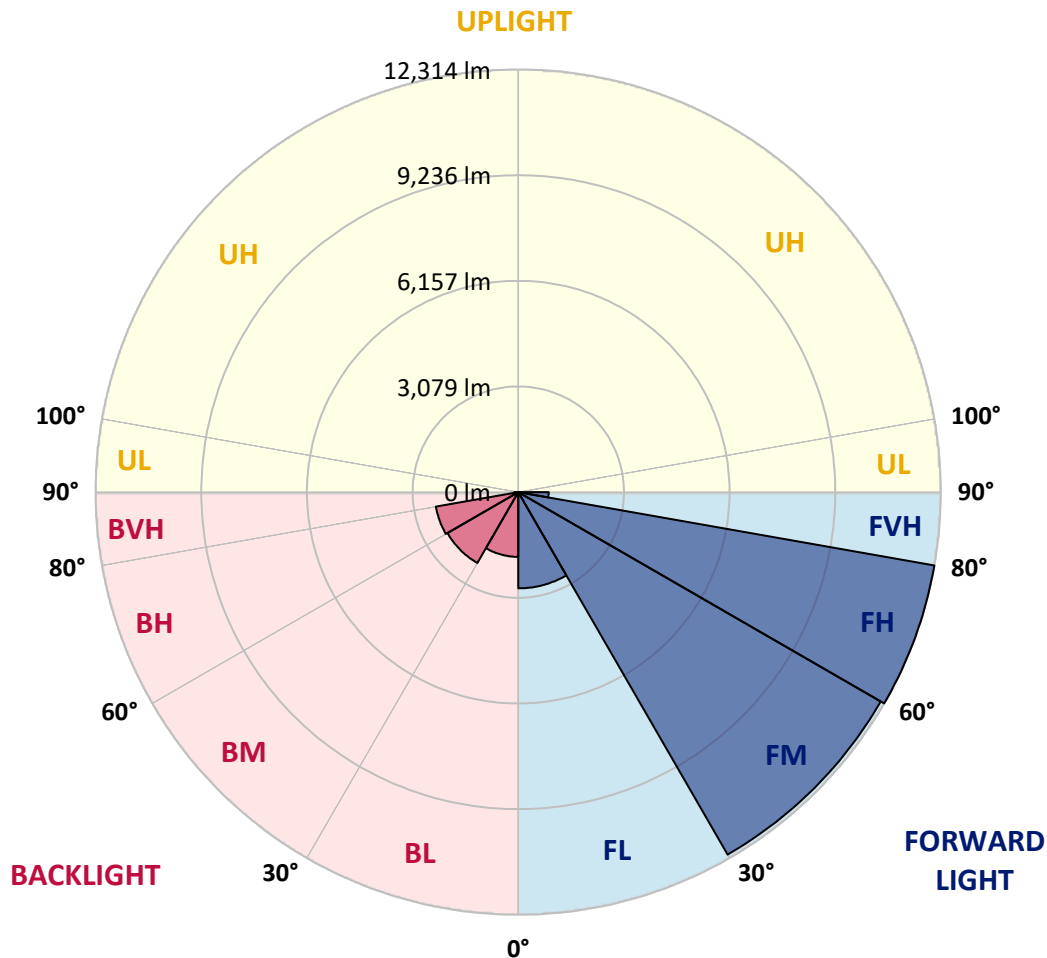


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2803.2	8.0			
FM (30°-60°)	12197.0	34.8			
FH (60°-80°)	12314.5	35.2			G5
FVH (80°-90°)	885.6	2.5			G5
BL (0°-30°)	1886.1	5.4	B3/2500		
BM (30°-60°)	2382.6	6.8	B2/2500		
BH (60°-80°)	2436.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	115.5	0.3			G2/225
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2
2.5°	7548.9	7634.2	7665.2	7711.7	7831.9	7921.1	7975.4	8037.4	8111.1	8173.1	8211.9
5°	7021.6	7068.1	7141.8	7192.2	7343.4	7583.8	7746.6	8010.3	8002.5	8099.5	8246.8
7.5°	6509.8	6556.3	6591.2	6692.0	6909.2	7126.3	7424.8	7851.3	7820.3	8045.2	8273.9
10°	6191.9	6157.0	6168.6	6339.2	6509.8	6754.1	7130.2	7564.4	7676.8	8025.8	8351.5
12.5°	5893.3	5854.6	5947.6	6056.2	6265.5	6486.5	6936.3	7327.9	7498.5	7956.0	8386.4
15°	5707.2	5680.1	5796.4	5842.9	6091.1	6354.7	6672.7	7149.5	7335.7	7870.7	8332.1
17.5°	5602.5	5625.8	5668.5	5769.3	5928.2	6153.1	6502.1	7029.4	7110.8	7766.0	8320.5
20°	5621.9	5649.1	5653.0	5695.6	5804.2	5978.6	6335.3	6901.4	6955.7	7746.6	8351.5
22.5°	5777.0	5738.2	5753.8	5726.6	5757.6	5893.3	6207.4	6730.8	6940.2	7583.8	8285.6
25°	6009.7	5955.4	5947.6	5854.6	5796.4	5835.2	6184.1	6688.2	6823.9	7533.4	8281.7
27.5°	6420.6	6339.2	6339.2	6199.6	5963.1	5901.1	6118.2	6618.4	6738.6	7486.9	8192.5
30°	6816.1	6816.1	6820.0	6622.3	6358.6	6052.3	6145.4	6591.2	6668.8	7347.3	8072.3
32.5°	7296.9	7285.3	7265.9	7168.9	6761.8	6304.3	6277.2	6556.3	6595.1	7300.8	8037.4
35°	7766.0	7735.0	7886.2	7800.9	7386.1	6796.7	6412.9	6571.8	6657.1	7231.0	7928.9
37.5°	8118.8	8138.2	8452.3	8506.6	8149.9	7355.0	6796.7	6726.9	6808.4	7331.8	7928.9
40°	8576.4	8653.9	8948.6	9130.8	8913.7	8091.7	7405.4	6986.7	7044.9	7556.7	8099.5
42.5°	9177.3	9243.2	9619.3	9855.8	9793.8	9030.0	8006.4	7529.5	7483.0	7932.7	8355.4
45°	9972.1	9983.8	10363.7	10689.4	10817.4	10010.9	8960.2	8215.8	8177.0	8580.2	8824.5
47.5°	10918.2	10906.6	11143.1	11492.0	11837.1	11181.8	10057.4	9258.7	9119.2	9506.9	9603.8
50°	11833.2	11782.8	11837.1	12283.0	12946.0	12647.4	11391.2	10534.3	10394.8	10608.0	10774.7
52.5°	12337.2	12399.3	12251.9	12841.3	14124.6	14380.5	13159.2	12058.1	11937.9	12042.6	12333.4
55°	11984.4	12112.4	12015.4	12573.7	14640.3	16493.6	15446.7	13822.2	13667.1	13628.3	14105.2
57.5°	10483.9	10716.6	10736.0	11620.0	14461.9	18129.8	18664.8	15904.3	15671.6	15276.2	15768.6
60°	8049.1	8281.7	8460.0	9506.9	12934.3	19106.8	22394.7	18866.4	18098.8	17075.2	17369.8
62.5°	5641.3	5800.3	5978.6	6622.3	9972.1	18533.0	25620.5	23038.3	21623.1	18971.1	19339.5
65°	4109.8	4233.9	4416.1	4796.1	6126.0	15334.3	27117.1	27993.4	26651.8	21382.7	21336.2
67.5°	3094.0	3171.5	3411.9	4020.7	4245.5	9472.0	25566.2	33227.6	32142.0	24061.9	22941.4
70°	2341.8	2407.7	2632.6	3466.2	3966.4	5079.1	20169.2	34394.6	34704.8	27066.7	24019.2
72.5°	1612.9	1686.6	1938.6	2888.5	3776.4	4028.4	12659.0	31246.3	32421.1	28303.5	22863.8
75°	988.7	1039.1	1186.4	2190.6	3749.2	3939.2	6967.3	25605.0	26849.6	26151.7	20002.5
77.5°	697.9	694.0	721.2	1283.4	3249.1	3962.5	4295.9	18761.8	19971.4	19273.5	13574.1
80°	507.9	511.8	538.9	767.7	2206.1	4028.4	3384.8	12566.0	12926.6	10049.7	5354.4
82.5°	306.3	321.8	387.7	519.5	1326.0	3636.8	3128.9	6982.8	6533.1	3225.8	1473.3
85°	162.8	162.8	228.8	329.6	705.6	2714.0	3012.6	3322.8	2783.8	1000.3	546.7
87.5°	38.8	38.8	65.9	131.8	283.0	1298.9	2054.9	1322.1	1058.5	337.3	224.9
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°	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2	8107.2
2.5°	8196.4	8149.9	8208.0	8091.7	7998.7	8002.5	7859.1	7851.3	7831.9	7731.1	7766.0
5°	8289.4	8250.7	8184.8	8056.8	7851.3	7645.8	7521.8	7362.8	7296.9	7262.0	7277.5
7.5°	8378.6	8308.8	8118.8	7940.5	7622.6	7234.8	7010.0	6796.7	6525.3	6494.3	6440.0
10°	8401.9	8254.6	8010.3	7630.3	7207.7	6777.3	6265.5	5870.1	5660.7	5497.9	5435.8
12.5°	8367.0	8305.0	7835.8	7347.3	6707.5	6032.9	5435.8	4877.5	4489.8	4288.2	4233.9
15°	8363.1	8254.6	7642.0	6916.9	6098.8	5218.7	4369.6	3698.8	3291.7	3125.0	3125.0
17.5°	8367.0	8107.2	7413.2	6482.7	5381.5	4191.2	3256.8	2706.3	2481.4	2458.1	2477.5
20°	8289.4	7998.7	7172.8	5970.9	4482.0	3148.3	2365.1	2140.2	2140.2	2171.2	2182.9
22.5°	8219.7	7835.8	6792.8	5338.9	3567.0	2279.8	1923.1	1857.2	1930.8	1985.1	2008.4
25°	8122.7	7700.1	6405.1	4683.7	2714.0	1837.8	1671.1	1686.6	1756.4	1853.3	1845.5
27.5°	7983.1	7463.6	5943.7	3923.7	2020.0	1585.8	1543.1	1550.9	1624.5	1667.2	1659.4
30°	7824.2	7223.2	5517.2	3167.7	1601.3	1453.9	1450.1	1469.5	1481.1	1504.4	1500.5
32.5°	7622.6	6905.3	5063.6	2462.0	1442.3	1380.3	1364.8	1353.1	1364.8	1360.9	1349.3
35°	7479.1	6734.7	4602.2	1876.6	1353.1	1314.4	1302.7	1283.4	1267.8	1244.6	1240.7
37.5°	7440.3	6564.1	4117.6	1531.5	1283.4	1264.0	1225.2	1190.3	1170.9	1159.3	1151.5
40°	7417.1	6451.7	3644.6	1345.4	1225.2	1205.8	1159.3	1112.8	1093.4	1081.7	1085.6
42.5°	7498.5	6389.6	3163.8	1252.3	1174.8	1139.9	1089.5	1035.2	1031.3	1023.6	1035.2
45°	7785.4	6467.2	2717.9	1186.4	1124.4	1066.2	1000.3	973.2	969.3	961.5	969.3
47.5°	8436.8	6661.0	2337.9	1143.8	1070.1	1019.7	949.9	911.1	907.3	903.4	903.4
50°	9336.3	7258.1	2020.0	1093.4	1035.2	965.4	899.5	856.9	849.1	833.6	833.6
52.5°	10747.6	8262.3	1830.0	1066.2	973.2	915.0	845.2	798.7	779.3	763.8	763.8
55°	12337.2	9506.9	1795.1	1019.7	907.3	853.0	790.9	744.4	725.0	705.6	697.9
57.5°	14147.9	11154.7	2043.3	988.7	860.7	790.9	721.2	678.5	663.0	643.6	635.9
60°	15834.5	12798.6	2814.8	942.2	818.1	732.8	663.0	620.4	601.0	581.6	581.6
62.5°	17784.7	14834.2	4121.5	942.2	779.3	670.8	601.0	569.9	558.3	538.9	535.1
65°	20091.6	16939.5	5075.2	1000.3	767.7	616.5	542.8	511.8	500.2	488.5	484.6
67.5°	21848.0	18149.2	4365.7	1155.4	818.1	569.9	484.6	465.3	457.5	445.9	438.1
70°	22034.1	17412.5	2632.6	1248.5	868.5	523.4	434.2	414.9	414.9	403.2	395.5
72.5°	20363.0	15450.6	1771.9	1112.8	787.1	469.1	383.8	368.3	360.6	352.8	348.9
75°	17040.3	13104.9	1399.7	887.9	604.8	387.7	333.4	317.9	306.3	302.4	294.7
77.5°	11445.5	8518.2	1035.2	694.0	445.9	314.1	279.2	263.6	252.0	248.1	236.5
80°	4396.7	3245.2	666.9	504.0	314.1	248.1	221.0	205.5	197.7	186.1	178.4
82.5°	1295.0	1050.7	372.2	310.2	201.6	170.6	159.0	147.3	135.7	124.1	120.2
85°	535.1	480.8	228.8	162.8	124.1	100.8	93.1	81.4	69.8	62.0	54.3
87.5°	248.1	205.5	104.7	62.0	42.6	23.3	11.6	3.9	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)