

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: P480058

Luminaire Tested: **IFLD-L-SA8A-730-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480058  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

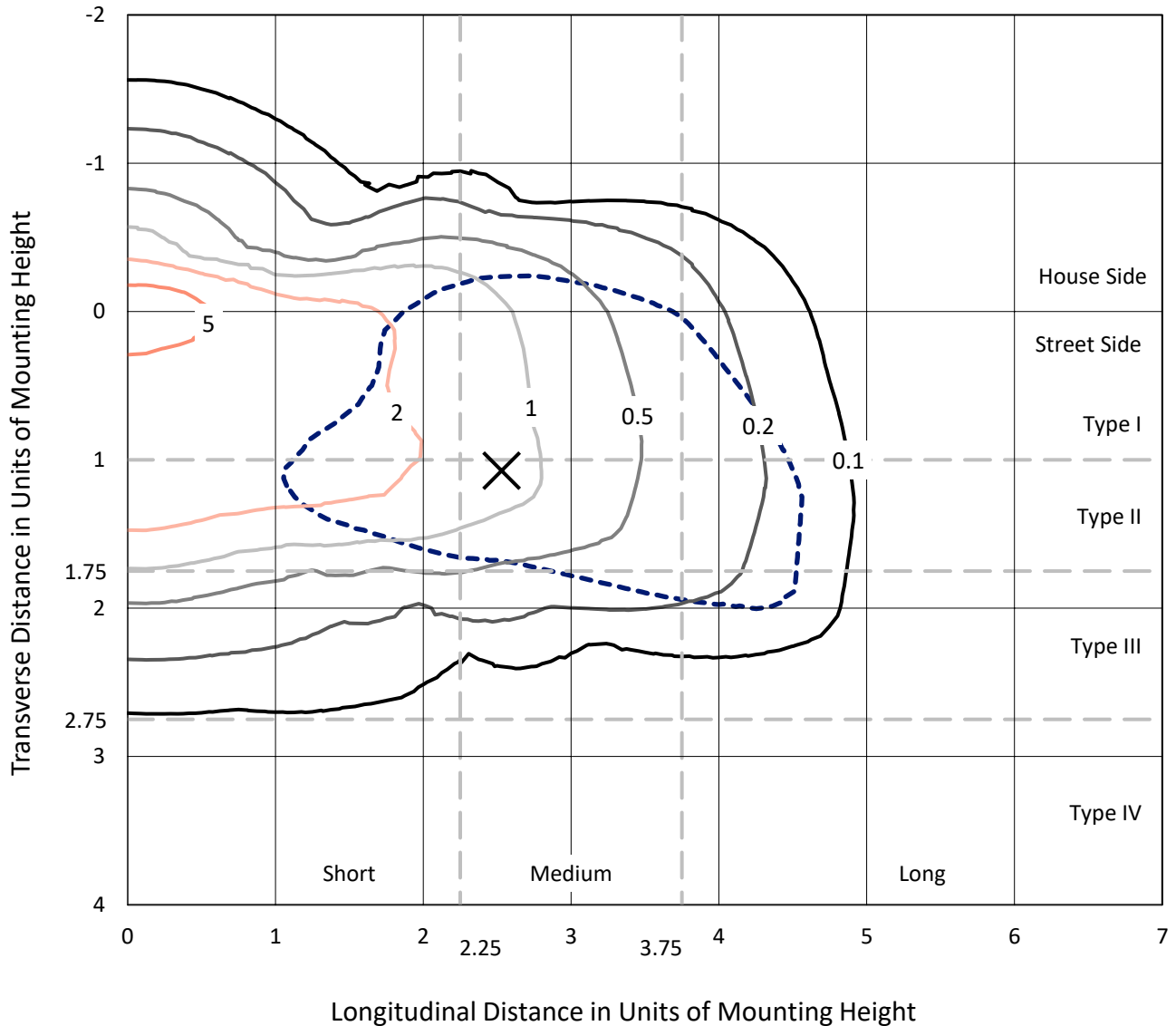
Lumens per Lamp: N/A  
Luminaire Lumens: 31101.9 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8  
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

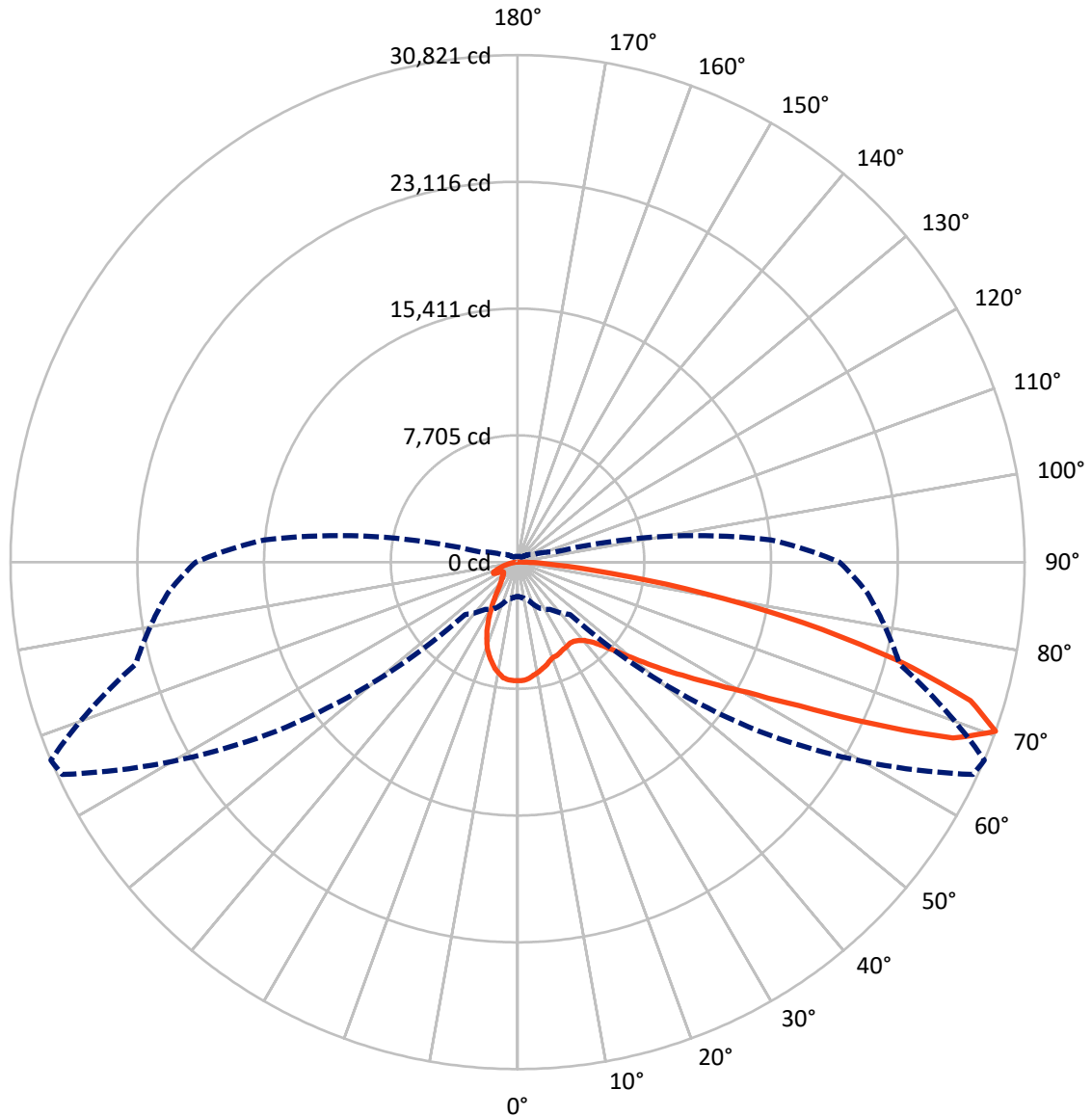
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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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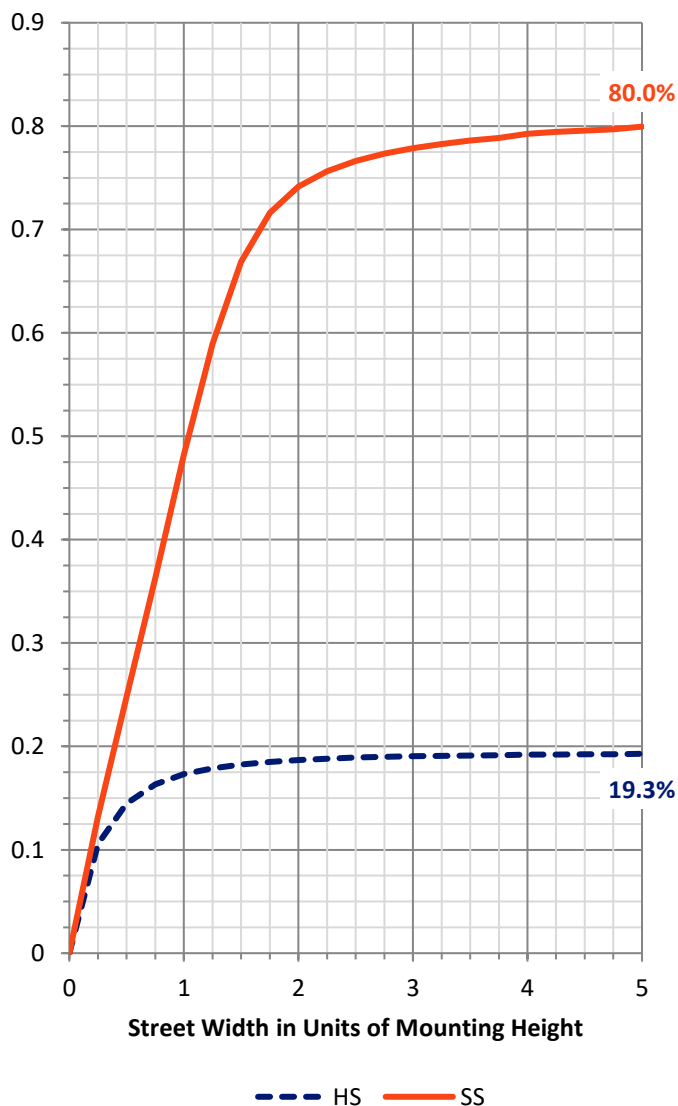
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6057.4	0.0	6057.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	25044.6	0.0	25044.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	31101.9	0.0	31101.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.2	2.0
10°-20°	1504.6	4.8
20°-30°	2031.8	6.5
30°-40°	2718.7	8.7
40°-50°	3997.8	12.9
50°-60°	6231.6	20.0
60°-70°	7676.3	24.7
70°-80°	5424.0	17.4
80°-90°	889.0	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°	31101.9	100.0
0°-180°	31101.9	100.0

**Coefficient of Utilization**

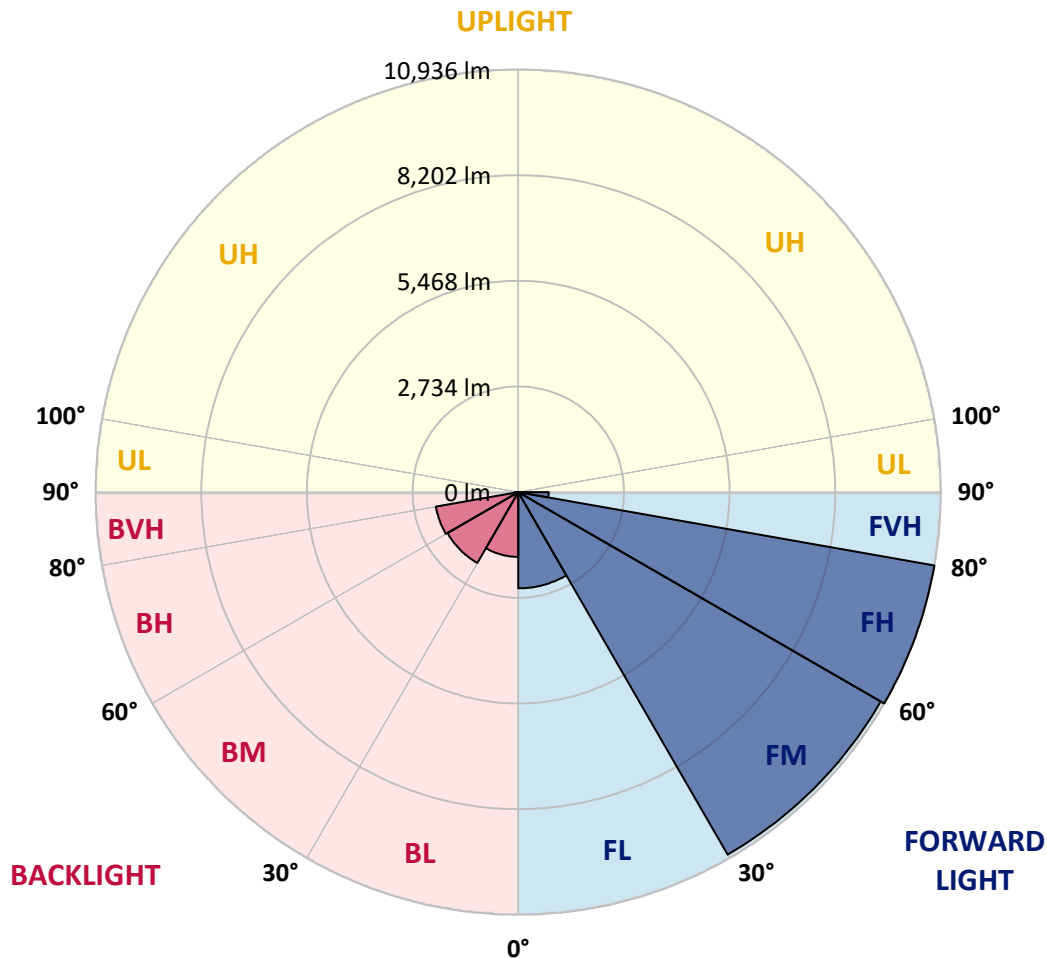


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2489.5	8.0			
FM (30°-60°)	10832.1	34.8			
FH (60°-80°)	10936.5	35.2			G4/12000
FVH (80°-90°)	786.5	2.5			G5
BL (0°-30°)	1675.1	5.4	B3/2500		
BM (30°-60°)	2116.0	6.8	B2/2500		
BH (60°-80°)	2163.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	102.6	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°	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0
2.5°	6704.2	6779.9	6807.5	6848.8	6955.5	7034.7	7082.9	7138.0	7203.4	7258.5	7293.0
5°	6235.9	6277.2	6342.6	6387.4	6521.7	6735.2	6879.8	7113.9	7107.0	7193.1	7324.0
7.5°	5781.4	5822.7	5853.7	5943.2	6136.0	6328.8	6594.0	6972.7	6945.2	7144.9	7348.1
10°	5499.0	5468.0	5478.3	5629.8	5781.4	5998.3	6332.3	6717.9	6817.8	7127.7	7416.9
12.5°	5233.9	5199.4	5282.1	5378.5	5564.4	5760.7	6160.1	6507.9	6659.4	7065.7	7447.9
15°	5068.6	5044.5	5147.8	5189.1	5409.5	5643.6	5926.0	6349.5	6514.8	6990.0	7399.7
17.5°	4975.6	4996.3	5034.1	5123.7	5264.9	5464.6	5774.5	6242.8	6315.1	6897.0	7389.4
20°	4992.8	5016.9	5020.4	5058.3	5154.7	5309.6	5626.4	6129.1	6177.3	6879.8	7416.9
22.5°	5130.6	5096.1	5109.9	5085.8	5113.3	5233.9	5512.8	5977.6	6163.6	6735.2	7358.4
25°	5337.2	5289.0	5282.1	5199.4	5147.8	5182.2	5492.1	5939.7	6060.3	6690.4	7355.0
27.5°	5702.2	5629.8	5629.8	5505.9	5295.8	5240.7	5433.6	5877.8	5984.5	6649.1	7275.8
30°	6053.4	6053.4	6056.8	5881.2	5647.1	5375.0	5457.7	5853.7	5922.5	6525.1	7169.0
32.5°	6480.3	6470.0	6452.8	6366.7	6005.2	5598.9	5574.8	5822.7	5857.1	6483.8	7138.0
35°	6897.0	6869.4	7003.7	6928.0	6559.5	6036.2	5695.3	5836.4	5912.2	6421.8	7041.6
37.5°	7210.3	7227.6	7506.5	7554.7	7237.9	6532.0	6036.2	5974.2	6046.5	6511.3	7041.6
40°	7616.6	7685.5	7947.2	8109.0	7916.2	7186.2	6576.8	6204.9	6256.5	6711.1	7193.1
42.5°	8150.4	8208.9	8542.9	8752.9	8697.9	8019.5	7110.5	6686.9	6645.6	7045.1	7420.4
45°	8856.2	8866.6	9204.0	9493.3	9606.9	8890.7	7957.5	7296.4	7262.0	7620.1	7837.0
47.5°	9696.4	9686.1	9896.1	10206.0	10512.5	9930.6	8932.0	8222.7	8098.7	8443.0	8529.1
50°	10509.0	10464.3	10512.5	10908.5	11497.3	11232.1	10116.5	9355.5	9231.6	9421.0	9569.0
52.5°	10956.7	11011.8	10880.9	11404.3	12544.1	12771.3	11686.7	10708.8	10602.0	10695.0	10953.2
55°	10643.3	10757.0	10670.9	11166.7	13002.0	14647.9	13718.2	12275.5	12137.7	12103.3	12526.8
57.5°	9310.8	9517.4	9534.6	10319.7	12843.6	16101.0	16576.2	14124.5	13917.9	13566.7	14004.0
60°	7148.4	7355.0	7513.3	8443.0	11487.0	16968.7	19888.7	16755.2	16073.5	15164.4	15426.1
62.5°	5010.0	5151.2	5309.6	5881.2	8856.2	16459.1	22753.5	20460.3	19203.5	16848.2	17175.3
65°	3649.9	3760.1	3922.0	4259.4	5440.5	13618.4	24082.7	24860.8	23669.5	18990.0	18948.6
67.5°	2747.8	2816.6	3030.1	3570.7	3770.4	8412.1	22705.3	29509.3	28545.2	21369.3	20374.2
70°	2079.8	2138.3	2338.0	3078.3	3522.5	4510.8	17912.2	30545.8	30821.2	24037.9	21331.4
72.5°	1432.4	1497.8	1721.7	2565.3	3353.8	3577.6	11242.5	27749.8	28793.1	25136.3	20305.3
75°	878.0	922.8	1053.7	1945.5	3329.7	3498.4	6187.7	22739.8	23845.1	23225.3	17764.1
77.5°	619.8	616.4	640.5	1139.7	2885.5	3519.1	3815.2	16662.3	17736.6	17116.8	12055.1
80°	451.1	454.5	478.6	681.8	1959.3	3577.6	3006.0	11159.8	11480.1	8925.1	4755.2
82.5°	272.0	285.8	344.3	461.4	1177.6	3229.8	2778.8	6201.4	5802.0	2864.9	1308.5
85°	144.6	144.6	203.2	292.7	626.7	2410.3	2675.5	2950.9	2472.3	888.4	485.5
87.5°	34.4	34.4	58.5	117.1	251.4	1153.5	1825.0	1174.2	940.0	299.6	199.7
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°	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0	7200.0
2.5°	7279.2	7237.9	7289.5	7186.2	7103.6	7107.0	6979.6	6972.7	6955.5	6866.0	6897.0
5°	7361.8	7327.4	7268.9	7155.2	6972.7	6790.2	6680.1	6538.9	6480.3	6449.4	6463.1
7.5°	7441.0	7379.1	7210.3	7051.9	6769.6	6425.3	6225.5	6036.2	5795.1	5767.6	5719.4
10°	7461.7	7330.9	7113.9	6776.5	6401.2	6018.9	5564.4	5213.2	5027.3	4882.6	4827.5
12.5°	7430.7	7375.6	6959.0	6525.1	5957.0	5357.8	4827.5	4331.7	3987.4	3808.3	3760.1
15°	7427.3	7330.9	6786.8	6142.9	5416.4	4634.7	3880.6	3284.9	2923.4	2775.3	2775.3
17.5°	7430.7	7200.0	6583.6	5757.2	4779.3	3722.2	2892.4	2403.4	2203.7	2183.1	2200.3
20°	7361.8	7103.6	6370.2	5302.7	3980.5	2796.0	2100.4	1900.7	1900.7	1928.3	1938.6
22.5°	7299.9	6959.0	6032.7	4741.5	3167.9	2024.7	1707.9	1649.4	1714.8	1763.0	1783.6
25°	7213.8	6838.5	5688.4	4159.5	2410.3	1632.1	1484.1	1497.8	1559.8	1645.9	1639.0
27.5°	7089.8	6628.4	5278.6	3484.7	1794.0	1408.3	1370.4	1377.3	1442.8	1480.6	1473.7
30°	6948.6	6414.9	4899.9	2813.2	1422.1	1291.2	1287.8	1305.0	1315.4	1336.0	1332.6
32.5°	6769.6	6132.6	4497.0	2186.5	1280.9	1225.8	1212.1	1201.7	1212.1	1208.6	1198.3
35°	6642.2	5981.1	4087.2	1666.6	1201.7	1167.3	1157.0	1139.7	1126.0	1105.3	1101.9
37.5°	6607.8	5829.6	3656.8	1360.1	1139.7	1122.5	1088.1	1057.1	1039.9	1029.6	1022.7
40°	6587.1	5729.7	3236.7	1194.8	1088.1	1070.9	1029.6	988.2	971.0	960.7	964.1
42.5°	6659.4	5674.6	2809.8	1112.2	1043.3	1012.3	967.6	919.4	915.9	909.0	919.4
45°	6914.2	5743.5	2413.8	1053.7	998.6	946.9	888.4	864.3	860.8	853.9	860.8
47.5°	7492.7	5915.6	2076.3	1015.8	950.4	905.6	843.6	809.2	805.7	802.3	802.3
50°	8291.5	6445.9	1794.0	971.0	919.4	857.4	798.9	761.0	754.1	740.3	740.3
52.5°	9544.9	7337.7	1625.3	946.9	864.3	812.6	750.6	709.3	692.1	678.3	678.3
55°	10956.7	8443.0	1594.3	905.6	805.7	757.5	702.4	661.1	643.9	626.7	619.8
57.5°	12564.7	9906.5	1814.6	878.0	764.4	702.4	640.5	602.6	588.8	571.6	564.7
60°	14062.6	11366.4	2499.9	836.7	726.5	650.8	588.8	550.9	533.7	516.5	516.5
62.5°	15794.6	13174.2	3660.3	836.7	692.1	595.7	533.7	506.2	495.8	478.6	475.2
65°	17843.3	15043.9	4507.3	888.4	681.8	547.5	482.1	454.5	444.2	433.9	430.4
67.5°	19403.2	16118.2	3877.2	1026.1	726.5	506.2	430.4	413.2	406.3	396.0	389.1
70°	19568.4	15464.0	2338.0	1108.8	771.3	464.8	385.7	368.4	368.4	358.1	351.2
72.5°	18084.4	13721.7	1573.6	988.2	699.0	416.6	340.9	327.1	320.2	313.3	309.9
75°	15133.4	11638.5	1243.0	788.5	537.2	344.3	296.1	282.4	272.0	268.6	261.7
77.5°	10164.7	7565.0	919.4	616.4	396.0	278.9	247.9	234.1	223.8	220.4	210.0
80°	3904.7	2882.1	592.3	447.6	278.9	220.4	196.3	182.5	175.6	165.3	158.4
82.5°	1150.1	933.1	330.6	275.5	179.1	151.5	141.2	130.8	120.5	110.2	106.7
85°	475.2	427.0	203.2	144.6	110.2	89.5	82.6	72.3	62.0	55.1	48.2
87.5°	220.4	182.5	93.0	55.1	37.9	20.7	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)