

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: P480292

Luminaire Tested: **IFLD-L-SA8A-830-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480292  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-830-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

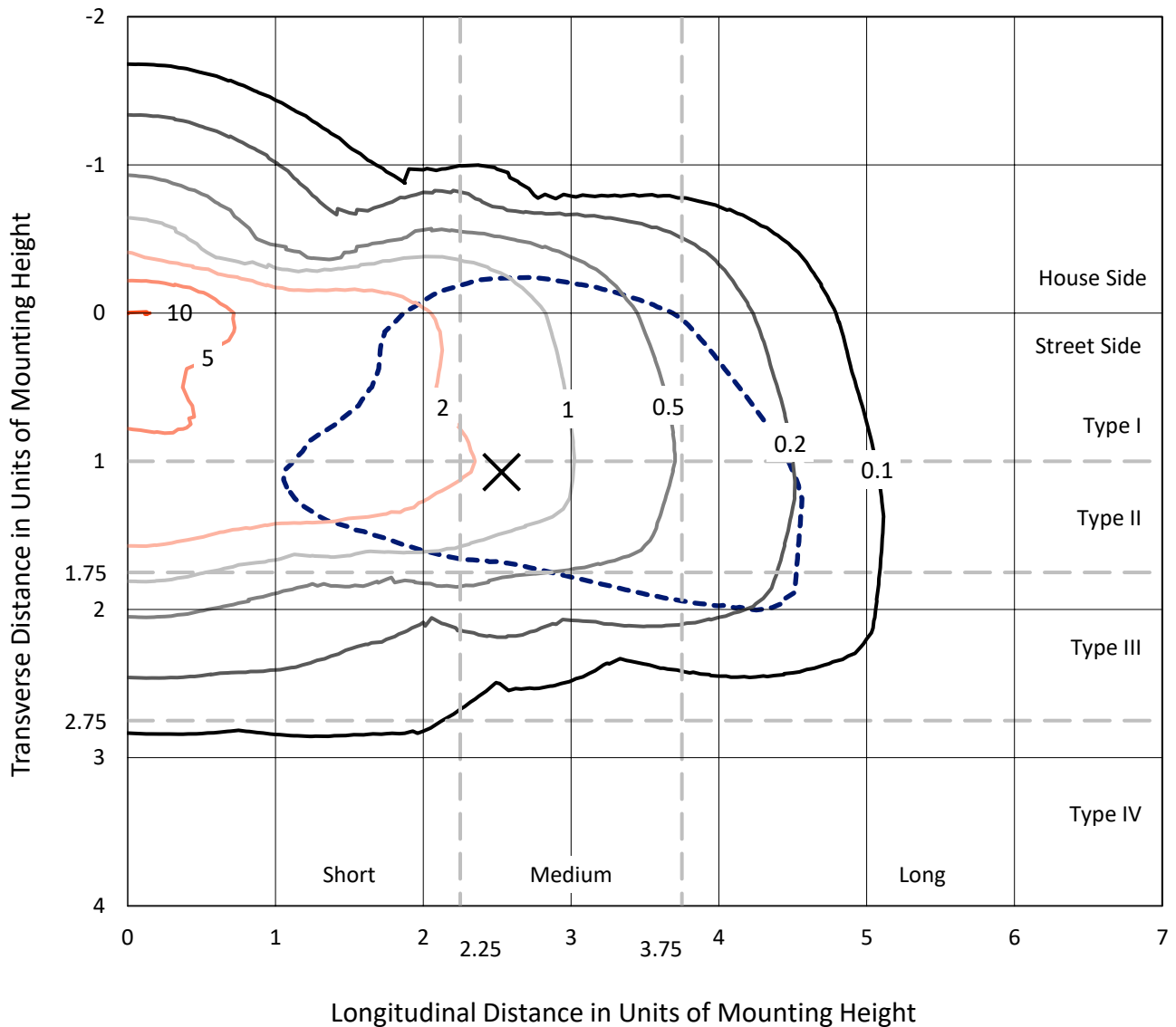
Lumens per Lamp: N/A  
Luminaire Lumens: 27139.9 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

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

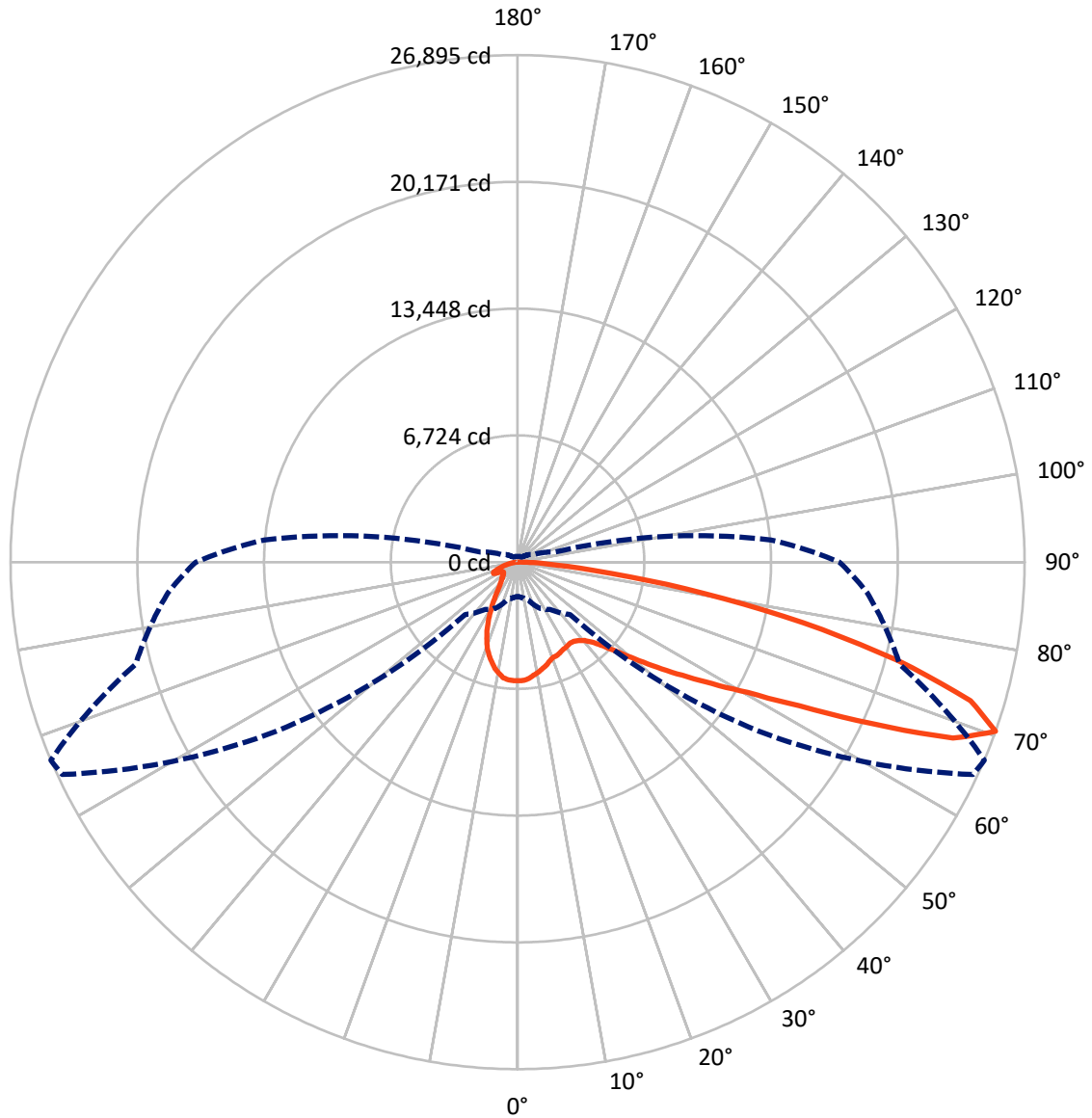
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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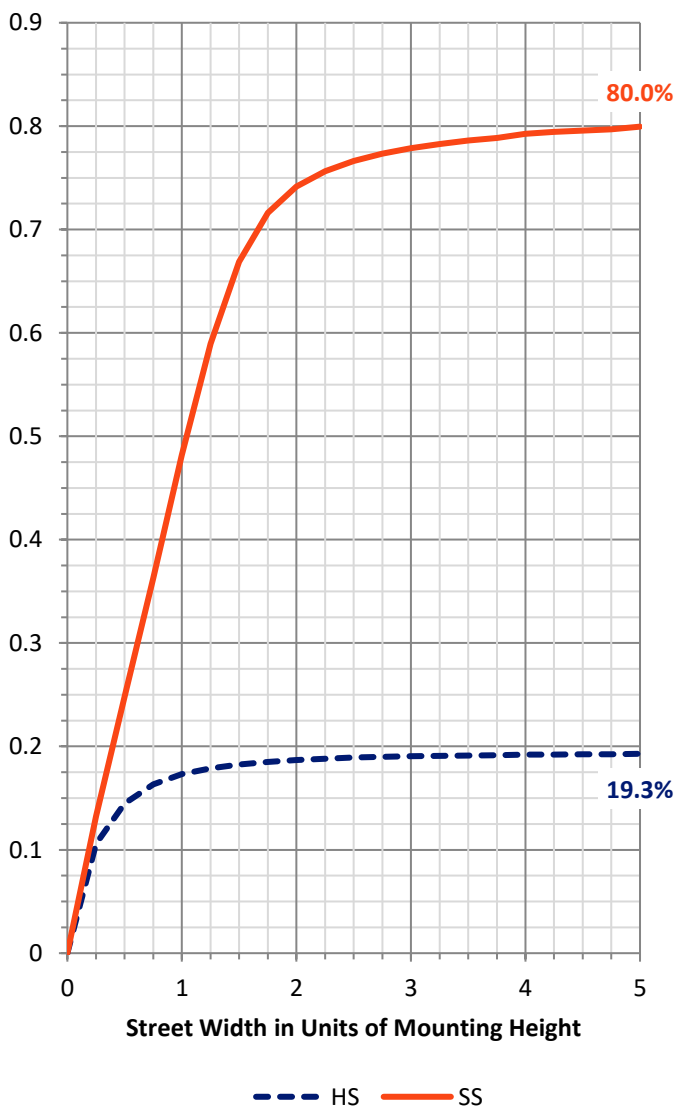
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5285.8	0.0	5285.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	21854.2	0.0	21854.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	27139.9	0.0	27139.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.2	2.0
10°-20°	1312.9	4.8
20°-30°	1773.0	6.5
30°-40°	2372.4	8.7
40°-50°	3488.5	12.9
50°-60°	5437.8	20.0
60°-70°	6698.4	24.7
70°-80°	4733.0	17.4
80°-90°	775.8	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°	27139.9	100.0
0°-180°	27139.9	100.0

**Coefficient of Utilization**



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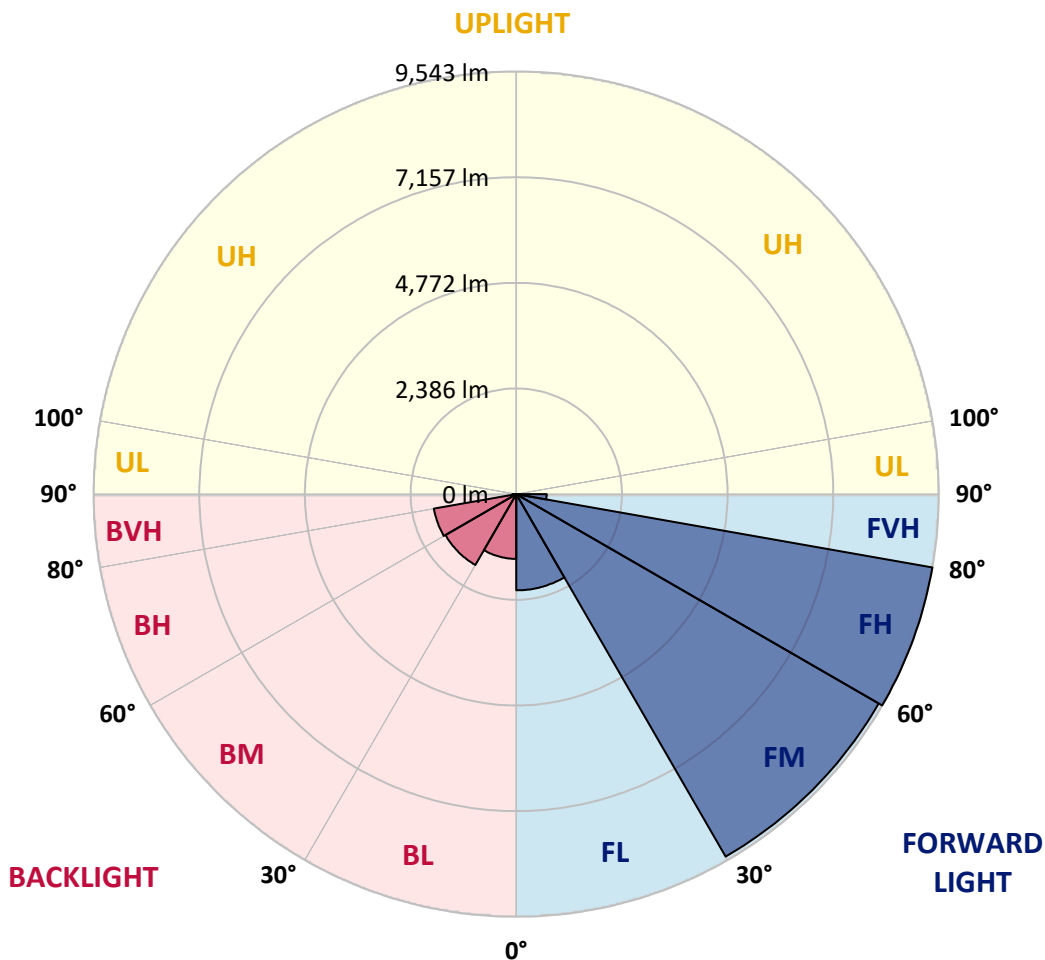
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2172.3	8.0			
FM (30°-60°)	9452.2	34.8			
FH (60°-80°)	9543.3	35.2			G4/12000
FVH (80°-90°)	686.3	2.5			G4/750
BL (0°-30°)	1461.7	5.4	B3/2500		
BM (30°-60°)	1846.4	6.8	B2/2500		
BH (60°-80°)	1888.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	89.5	0.3			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8
2.5°	5850.1	5916.2	5940.3	5976.3	6069.5	6138.6	6180.6	6228.7	6285.8	6333.9	6363.9
5°	5441.5	5477.5	5534.6	5573.7	5690.9	5877.2	6003.4	6207.7	6201.7	6276.8	6391.0
7.5°	5044.9	5080.9	5108.0	5186.1	5354.4	5522.6	5754.0	6084.5	6060.5	6234.7	6412.0
10°	4798.5	4771.4	4780.5	4912.7	5044.9	5234.2	5525.6	5862.1	5949.3	6219.7	6472.1
12.5°	4567.1	4537.1	4609.2	4693.3	4855.6	5026.8	5375.4	5678.9	5811.1	6165.6	6499.1
15°	4422.9	4401.9	4492.0	4528.1	4720.4	4924.7	5171.1	5540.6	5684.9	6099.5	6457.1
17.5°	4341.8	4359.8	4392.9	4471.0	4594.2	4768.4	5038.9	5447.5	5510.6	6018.4	6448.1
20°	4356.8	4377.8	4380.8	4413.9	4498.0	4633.2	4909.7	5348.3	5390.4	6003.4	6472.1
22.5°	4477.0	4446.9	4459.0	4437.9	4462.0	4567.1	4810.5	5216.1	5378.4	5877.2	6421.0
25°	4657.3	4615.2	4609.2	4537.1	4492.0	4522.1	4792.5	5183.1	5288.3	5838.1	6418.0
27.5°	4975.8	4912.7	4912.7	4804.5	4621.2	4573.1	4741.4	5129.0	5222.2	5802.1	6348.9
30°	5282.2	5282.2	5285.2	5132.0	4927.7	4690.3	4762.4	5108.0	5168.1	5693.9	6255.8
32.5°	5654.8	5645.8	5630.8	5555.7	5240.2	4885.6	4864.6	5080.9	5111.0	5657.8	6228.7
35°	6018.4	5994.4	6111.5	6045.4	5723.9	5267.2	4969.8	5092.9	5159.1	5603.7	6144.6
37.5°	6291.8	6306.8	6550.2	6592.3	6315.9	5699.9	5267.2	5213.1	5276.2	5681.9	6144.6
40°	6646.4	6706.5	6934.8	7076.0	6907.8	6270.8	5739.0	5414.5	5459.5	5856.1	6276.8
42.5°	7112.1	7163.2	7454.6	7637.9	7589.8	6997.9	6204.7	5835.1	5799.1	6147.6	6475.1
45°	7728.1	7737.1	8031.5	8283.9	8383.1	7758.1	6943.8	6366.9	6336.9	6649.4	6838.7
47.5°	8461.2	8452.2	8635.5	8905.9	9173.3	8665.5	7794.2	7175.2	7067.0	7367.5	7442.6
50°	9170.3	9131.3	9173.3	9518.9	10032.7	9801.3	8827.8	8163.7	8055.6	8220.8	8350.0
52.5°	9560.9	9609.0	9494.8	9951.5	10946.1	11144.4	10197.9	9344.6	9251.4	9332.6	9557.9
55°	9287.5	9386.7	9311.5	9744.2	11345.7	12781.9	11970.7	10711.7	10591.5	10561.5	10931.1
57.5°	8124.7	8305.0	8320.0	9005.1	11207.5	14049.9	14464.6	12325.2	12145.0	11838.5	12220.1
60°	6237.7	6418.0	6556.2	7367.5	10023.6	14807.1	17355.1	14620.8	14025.9	13232.7	13461.0
62.5°	4371.8	4495.0	4633.2	5132.0	7728.1	14362.4	19855.0	17853.9	16757.2	14701.9	14987.4
65°	3185.0	3281.1	3422.3	3716.8	4747.4	11883.5	21014.8	21693.9	20654.2	16570.9	16534.8
67.5°	2397.7	2457.8	2644.1	3115.9	3290.1	7340.5	19812.9	25750.2	24908.9	18647.1	17778.7
70°	1814.8	1865.9	2040.2	2686.2	3073.8	3936.1	15630.4	26654.6	26895.0	20975.7	18614.1
72.5°	1250.0	1307.0	1502.3	2238.5	2926.6	3121.9	9810.3	24214.8	25125.2	21934.2	17718.7
75°	766.2	805.3	919.4	1697.6	2905.5	3052.8	5399.4	19843.0	20807.5	20266.6	15501.2
77.5°	540.8	537.8	558.9	994.6	2517.9	3070.8	3329.2	14539.7	15477.2	14936.3	10519.4
80°	393.6	396.6	417.7	594.9	1709.7	3121.9	2623.1	9738.2	10017.6	7788.2	4149.5
82.5°	237.4	249.4	300.5	402.6	1027.6	2818.4	2424.8	5411.4	5062.9	2499.9	1141.8
85°	126.2	126.2	177.3	255.4	546.9	2103.3	2334.6	2575.0	2157.4	775.2	423.7
87.5°	30.0	30.0	51.1	102.2	219.3	1006.6	1592.5	1024.6	820.3	261.4	174.3
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°	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8	6282.8
2.5°	6351.9	6315.9	6360.9	6270.8	6198.7	6201.7	6090.5	6084.5	6069.5	5991.4	6018.4
5°	6424.0	6394.0	6342.9	6243.7	6084.5	5925.2	5829.1	5705.9	5654.8	5627.8	5639.8
7.5°	6493.1	6439.0	6291.8	6153.6	5907.2	5606.8	5432.5	5267.2	5056.9	5032.9	4990.8
10°	6511.2	6397.0	6207.7	5913.2	5585.7	5252.2	4855.6	4549.1	4386.8	4260.6	4212.6
12.5°	6484.1	6436.0	6072.5	5693.9	5198.1	4675.3	4212.6	3779.9	3479.4	3323.2	3281.1
15°	6481.1	6397.0	5922.2	5360.4	4726.4	4044.3	3386.3	2866.5	2551.0	2421.8	2421.8
17.5°	6484.1	6282.8	5745.0	5023.8	4170.5	3248.1	2523.9	2097.3	1923.0	1905.0	1920.0
20°	6424.0	6198.7	5558.7	4627.2	3473.4	2439.8	1832.9	1658.6	1658.6	1682.6	1691.6
22.5°	6369.9	6072.5	5264.2	4137.5	2764.3	1766.8	1490.3	1439.2	1496.3	1538.4	1556.4
25°	6294.8	5967.3	4963.7	3629.7	2103.3	1424.2	1295.0	1307.0	1361.1	1436.2	1430.2
27.5°	6186.7	5784.0	4606.2	3040.7	1565.4	1228.9	1195.9	1201.9	1259.0	1292.0	1286.0
30°	6063.5	5597.7	4275.7	2454.8	1240.9	1126.8	1123.8	1138.8	1147.8	1165.8	1162.8
32.5°	5907.2	5351.4	3924.1	1908.0	1117.7	1069.7	1057.7	1048.6	1057.7	1054.6	1045.6
35°	5796.0	5219.1	3566.6	1454.3	1048.6	1018.6	1009.6	994.6	982.5	964.5	961.5
37.5°	5766.0	5086.9	3191.0	1186.9	994.6	979.5	949.5	922.4	907.4	898.4	892.4
40°	5748.0	4999.8	2824.4	1042.6	949.5	934.5	898.4	862.3	847.3	838.3	841.3
42.5°	5811.1	4951.7	2451.8	970.5	910.4	883.4	844.3	802.3	799.2	793.2	802.3
45°	6033.4	5011.8	2106.3	919.4	871.4	826.3	775.2	754.2	751.2	745.2	751.2
47.5°	6538.2	5162.1	1811.8	886.4	829.3	790.2	736.1	706.1	703.1	700.1	700.1
50°	7235.3	5624.8	1565.4	847.3	802.3	748.2	697.1	664.0	658.0	646.0	646.0
52.5°	8329.0	6403.0	1418.2	826.3	754.2	709.1	655.0	619.0	603.9	591.9	591.9
55°	9560.9	7367.5	1391.2	790.2	703.1	661.0	613.0	576.9	561.9	546.9	540.8
57.5°	10964.1	8644.5	1583.5	766.2	667.0	613.0	558.9	525.8	513.8	498.8	492.8
60°	12271.2	9918.5	2181.4	730.1	634.0	567.9	513.8	480.8	465.7	450.7	450.7
62.5°	13782.5	11495.9	3194.0	730.1	603.9	519.8	465.7	441.7	432.7	417.7	414.6
65°	15570.3	13127.5	3933.1	775.2	594.9	477.7	420.7	396.6	387.6	378.6	375.6
67.5°	16931.4	14065.0	3383.3	895.4	634.0	441.7	375.6	360.6	354.6	345.5	339.5
70°	17075.7	13494.1	2040.2	967.5	673.1	405.6	336.5	321.5	321.5	312.5	306.5
72.5°	15780.6	11973.7	1373.1	862.3	610.0	363.6	297.5	285.4	279.4	273.4	270.4
75°	13205.6	10155.9	1084.7	688.1	468.7	300.5	258.4	246.4	237.4	234.4	228.4
77.5°	8869.8	6601.3	802.3	537.8	345.5	243.4	216.3	204.3	195.3	192.3	183.3
80°	3407.3	2514.9	516.8	390.6	243.4	192.3	171.3	159.2	153.2	144.2	138.2
82.5°	1003.6	814.3	288.5	240.4	156.2	132.2	123.2	114.2	105.2	96.2	93.1
85°	414.6	372.6	177.3	126.2	96.2	78.1	72.1	63.1	54.1	48.1	42.1
87.5°	192.3	159.2	81.1	48.1	33.1	18.0	9.0	3.0	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)