

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: P478341

Luminaire Tested: **IFLD-L-SA7E-830-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478341  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-830-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

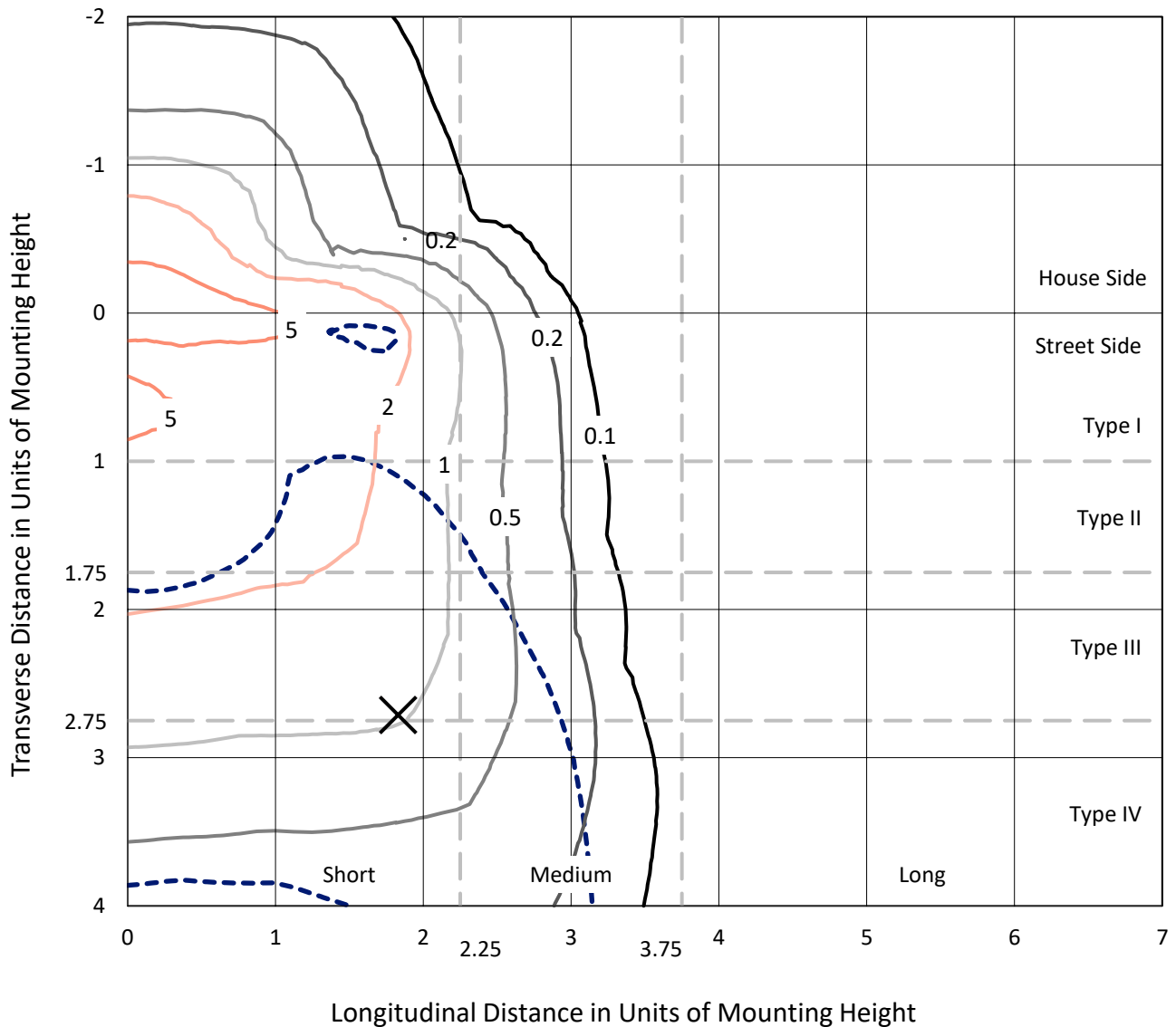
Lumens per Lamp: N/A  
Luminaire Lumens: 45954.9 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

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

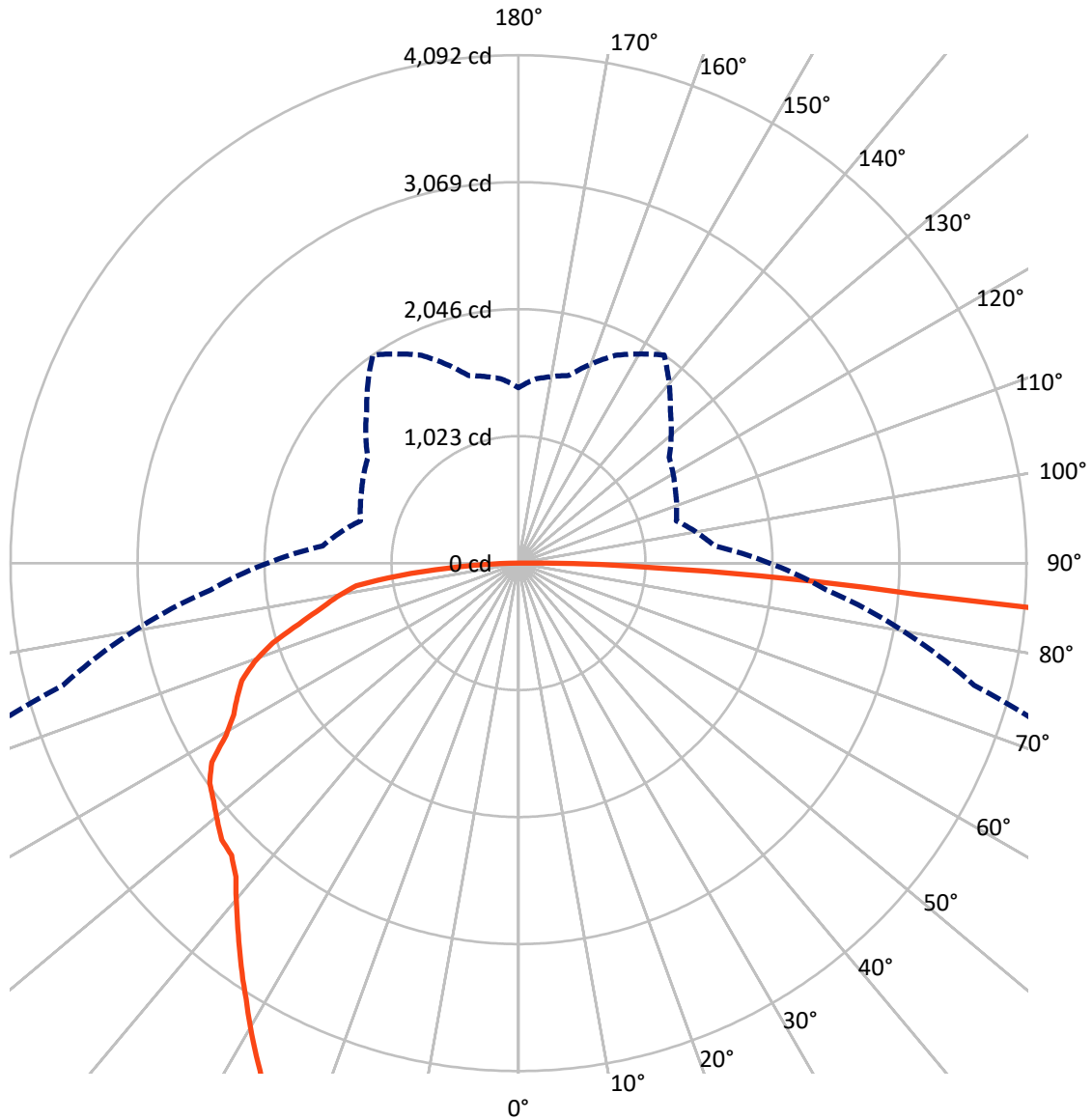
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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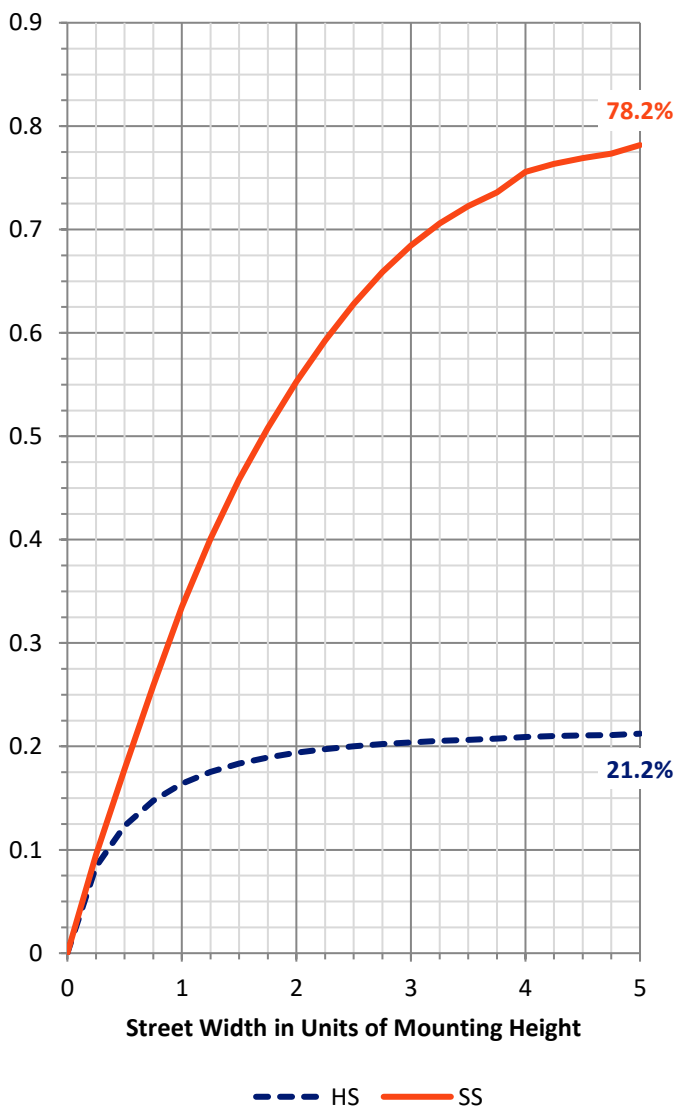
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9926.8	0.0	9926.8
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	36028.1	0.0	36028.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	45954.9	0.0	45954.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.1	1.3
10°-20°	1701.7	3.7
20°-30°	2800.8	6.1
30°-40°	4188.6	9.1
40°-50°	6209.4	13.5
50°-60°	8948.4	19.5
60°-70°	11419.4	24.8
70°-80°	8886.2	19.3
80°-90°	1192.1	2.6
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°	45954.9	100.0
0°-180°	45954.9	100.0

**Coefficient of Utilization**

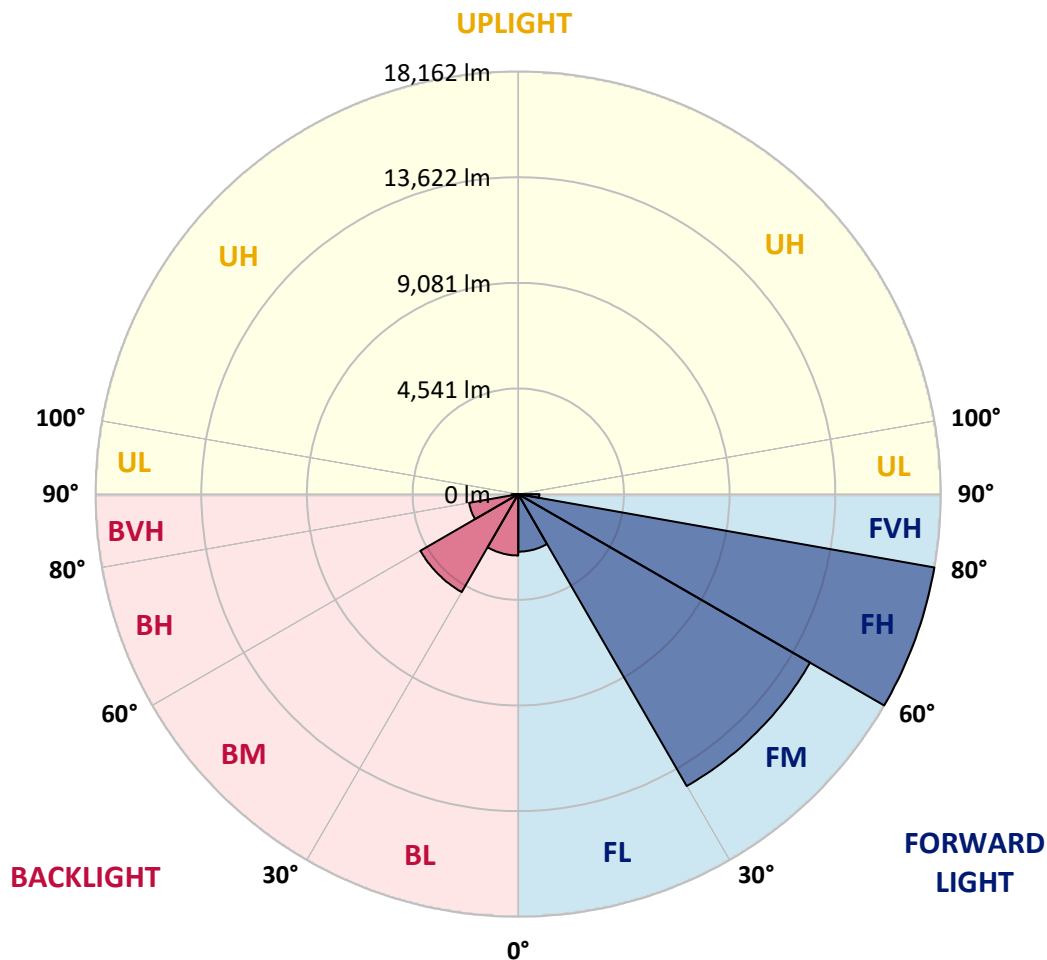


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2473.2	5.4			
FM (30°-60°)	14485.3	31.5			
FH (60°-80°)	18162.2	39.5			G5
FVH (80°-90°)	907.4	2.0			G5
BL (0°-30°)	2637.5	5.7	B4/5000		
BM (30°-60°)	4861.2	10.6	B3/5000		
BH (60°-80°)	2143.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	284.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4
2.5°	5903.3	5922.7	5985.9	6000.5	6068.5	6029.6	6112.2	6258.0	6340.6	6462.0	6607.8
5°	5436.9	5354.3	5393.1	5543.7	5621.5	5640.9	5728.4	5976.2	6131.6	6311.4	6583.5
7.5°	4887.8	4873.2	4951.0	5048.2	5203.6	5218.2	5412.6	5631.2	5951.9	6350.3	6671.0
10°	4513.7	4576.9	4620.6	4722.6	4829.5	4829.5	5077.3	5456.3	5820.7	6204.5	6690.4
12.5°	4494.3	4455.4	4465.1	4518.6	4596.3	4693.5	4926.7	5266.8	5728.4	6175.4	6773.0
15°	4557.4	4572.0	4484.6	4552.6	4581.7	4615.7	4873.2	5257.1	5670.1	6277.4	6913.9
17.5°	4892.7	4810.1	4674.0	4610.9	4712.9	4712.9	4887.8	5189.1	5679.8	6330.8	7118.0
20°	5155.0	5155.0	4931.6	4863.5	4936.4	4921.8	5043.3	5266.8	5728.4	6437.7	7346.3
22.5°	5597.2	5660.4	5291.1	5150.2	5145.3	5184.2	5291.1	5480.6	5864.4	6588.4	7565.0
25°	6233.7	6248.3	5820.7	5674.9	5519.4	5582.6	5602.0	5791.5	5985.9	6763.3	7812.7
27.5°	6943.0	6933.3	6539.8	6175.4	6073.3	6087.9	5981.0	6107.3	6165.7	6816.7	8167.4
30°	7730.1	7642.7	7346.3	6831.3	6748.7	6656.4	6423.2	6418.3	6539.8	7118.0	8658.2
32.5°	8245.2	8133.4	7929.4	7560.1	7331.7	7341.5	6972.2	6967.3	6860.4	7448.3	9085.7
35°	8750.5	8580.4	8527.0	8148.0	7919.6	7943.9	7647.5	7608.7	7414.3	7948.8	9790.2
37.5°	9357.8	9207.2	9289.8	9003.1	8721.3	8604.7	8468.7	8420.1	8167.4	8653.3	10752.2
40°	10028.3	9979.7	9926.3	9785.4	9615.3	9625.0	9479.3	9430.7	9056.6	9503.6	11675.4
42.5°	10932.0	10747.4	10470.4	10562.8	10650.2	10742.5	10693.9	10567.6	10178.9	10368.4	12705.4
45°	11772.6	11529.6	11019.5	11048.6	11408.2	11481.0	12068.9	12054.4	11272.1	11466.5	13876.4
47.5°	12341.0	12229.3	11923.2	11889.2	12404.2	12399.3	13458.5	13458.5	12423.6	12559.7	15134.8
50°	13186.4	12894.9	12763.7	12933.8	13196.1	13375.9	14877.2	14969.6	13555.7	13701.5	16781.8
52.5°	14177.6	13813.2	13482.8	13920.1	14386.5	14503.1	16281.4	16242.5	14425.4	15027.9	18710.7
55°	14998.7	14814.1	14585.7	14838.4	15601.2	15747.0	17690.4	17330.9	15295.1	16125.9	19638.7
57.5°	15955.9	16067.6	16116.2	16053.0	16961.6	17190.0	19298.6	18268.6	16043.3	16864.4	20182.9
60°	17398.9	17466.9	17530.1	17680.7	18642.7	18963.4	20571.6	19444.4	16514.6	17292.0	20226.6
62.5°	19595.0	19332.7	19473.6	19993.4	20766.0	21130.4	22447.1	20270.4	16874.2	17549.5	18798.2
65°	22107.0	21752.3	21606.5	22277.0	24278.8	23987.3	24788.9	20887.4	16354.3	16587.5	15941.3
67.5°	24652.9	24691.8	24317.6	25663.5	28117.1	28117.1	26965.6	21183.8	14945.3	13443.9	11179.8
70°	26674.1	26795.6	26999.6	29608.7	33495.7	34083.6	29662.2	19969.1	12073.8	8949.7	6112.2
72.5°	26644.9	26280.5	27325.2	32130.4	38383.5	37892.8	30225.8	15790.7	7535.8	4382.5	2803.5
73°	26047.3	25741.2	26883.0	32106.1	38582.7	38121.1	29812.8	14556.6	6646.7	3799.5	2492.5
75°	21271.3	20717.4	22660.8	29079.1	35696.7	36051.3	25328.3	9493.8	3644.0	2341.9	1754.0
77.5°	9697.9	9940.8	12472.2	19507.6	27509.8	27927.6	16650.7	4105.6	1996.9	1642.2	1292.4
80°	3114.4	3269.9	4853.8	9697.9	17243.4	17996.5	7696.1	1865.7	1423.6	1258.4	966.9
82.5°	1190.4	1185.5	2035.8	4032.7	8172.3	8653.3	2813.2	1136.9	1059.2	928.0	685.1
85°	417.8	437.3	767.7	1593.6	3216.4	3367.1	976.6	631.6	733.7	621.9	393.6
87.5°	145.8	150.6	272.1	578.2	1107.8	1170.9	272.1	252.7	364.4	359.5	199.2
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°	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4	6588.4
2.5°	6656.4	6700.1	6714.7	6889.6	6889.6	6889.6	6957.6	6957.6	6938.2	6889.6	7006.2
5°	6685.5	6763.3	6913.9	7064.5	7103.4	7137.4	7229.7	7152.0	7181.1	7132.5	7176.3
7.5°	6768.1	6875.0	7156.8	7249.1	7186.0	7258.9	7161.7	7108.2	7054.8	7074.2	7006.2
10°	6909.0	7045.1	7176.3	7346.3	7224.8	7152.0	6952.8	6904.2	6734.1	6675.8	6729.3
12.5°	7083.9	7249.1	7472.6	7409.5	7176.3	6967.3	6753.6	6549.5	6447.5	6301.7	6340.6
15°	7258.9	7448.3	7482.4	7375.5	7083.9	6821.6	6432.9	6146.2	6044.2	5913.0	5981.0
17.5°	7448.3	7628.1	7569.8	7292.9	6899.3	6500.9	6058.8	5777.0	5563.2	5480.6	5480.6
20°	7730.1	7817.6	7725.3	7156.8	6675.8	6151.1	5723.5	5402.8	5189.1	5155.0	5101.6
22.5°	7948.8	8089.7	7676.7	6957.6	6350.3	5694.4	5203.6	5082.2	5019.0	4965.6	4897.5
25°	8230.6	8225.7	7589.2	6773.0	5791.5	5150.2	4853.8	4844.1	4814.9	4795.5	4887.8
27.5°	8497.8	8386.1	7487.2	6316.3	5213.4	4737.2	4576.9	4683.8	4727.5	4698.3	4737.2
30°	8920.5	8735.9	7341.5	5830.4	4703.2	4319.4	4348.5	4494.3	4567.2	4610.9	4552.6
32.5°	9367.5	9085.7	7040.2	5325.1	4251.3	4057.0	4125.0	4275.6	4363.1	4411.7	4465.1
35°	10013.7	9357.8	6734.1	4664.3	3925.8	3896.7	3935.5	4018.1	4144.4	4178.5	4193.0
37.5°	10810.5	9770.8	6321.1	4134.7	3673.2	3707.2	3746.0	3775.2	3780.0	3843.2	3818.9
40°	11607.4	10120.6	5718.7	3629.4	3410.8	3595.4	3576.0	3522.5	3478.8	3420.5	3405.9
42.5°	12307.0	10426.7	5048.2	3201.9	3177.6	3478.8	3415.6	3279.6	3177.6	3133.8	3061.0
45°	13094.1	10859.1	4372.8	2934.6	2997.8	3337.9	3318.5	3109.5	2978.4	2822.9	2803.5
47.5°	14114.4	11311.0	3726.6	2657.7	2827.7	3284.5	3294.2	3027.0	2837.5	2628.5	2599.4
50°	15421.4	11962.0	3235.9	2541.1	2725.7	3206.7	3221.3	2915.2	2667.4	2453.6	2434.2
52.5°	16675.0	12627.7	2827.7	2361.3	2657.7	3114.4	3148.4	2813.2	2526.5	2259.3	2273.9
55°	17306.6	12384.8	2477.9	2230.1	2502.2	2963.8	3090.1	2740.3	2312.7	2128.1	2123.2
57.5°	17447.5	11787.1	2201.0	2094.1	2371.0	2803.5	2992.9	2521.7	2215.6	2060.1	2040.6
60°	16985.9	10742.5	1982.3	1948.3	2205.8	2638.3	2769.4	2405.0	2118.4	1992.1	1962.9
62.5°	15849.0	9659.0	1831.7	1880.3	2064.9	2458.5	2628.5	2322.4	2026.1	1938.6	1875.4
65°	12996.9	7943.9	1710.3	1749.1	1919.2	2283.6	2541.1	2230.1	1943.5	1860.9	1856.0
67.5°	9003.1	5475.7	1613.1	1686.0	1802.6	2157.2	2453.6	2128.1	1836.6	1807.4	1768.6
70°	4610.9	2920.1	1486.8	1545.1	1676.2	1996.9	2298.2	2021.2	1724.8	1720.0	1671.4
72.5°	2337.0	1710.3	1341.0	1428.4	1520.8	1788.0	2103.8	1880.3	1583.9	1530.5	1452.7
73°	2021.2	1583.9	1316.7	1394.4	1481.9	1729.7	2045.5	1846.3	1564.5	1486.8	1413.9
75°	1472.2	1248.7	1180.7	1258.4	1326.4	1559.6	1851.2	1690.8	1438.2	1355.6	1287.5
77.5°	1102.9	962.0	981.5	1068.9	1127.2	1345.9	1647.1	1530.5	1302.1	1190.4	1161.2
80°	811.4	733.7	811.4	894.0	937.7	1185.5	1501.3	1326.4	1098.1	971.7	947.4
82.5°	578.2	534.5	626.8	680.2	699.6	981.5	1350.7	1059.2	830.8	665.6	612.2
85°	330.4	325.5	422.7	417.8	432.4	573.3	889.1	704.5	534.5	408.1	398.4
87.5°	145.8	160.3	213.8	170.1	179.8	272.1	379.0	262.4	218.6	121.5	92.3
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)