

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: P477126

Luminaire Tested: **IFLD-M-SA4D-827-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477126  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-827-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

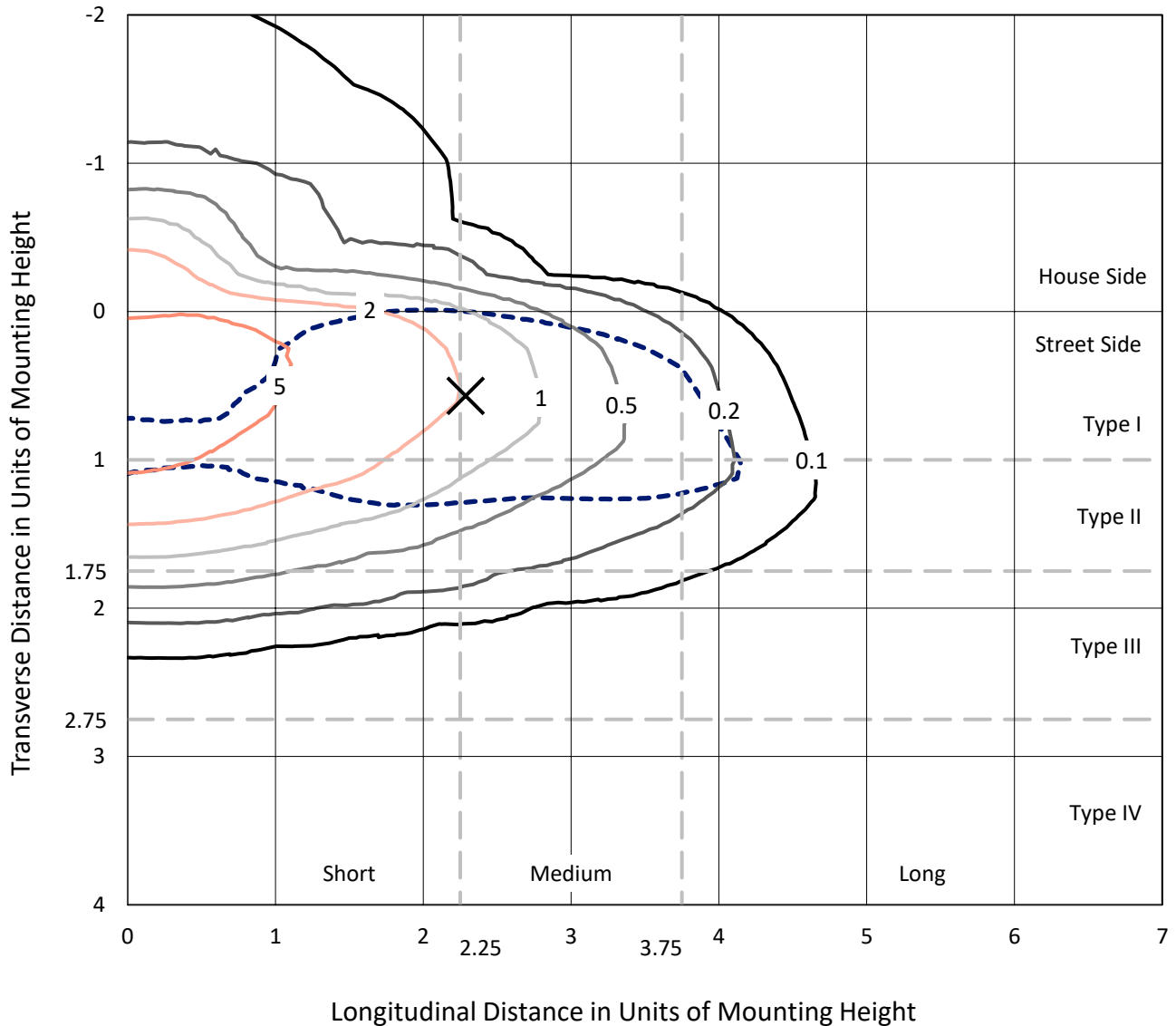
Lumens per Lamp: N/A  
Luminaire Lumens: 23126.1 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 249.7  
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

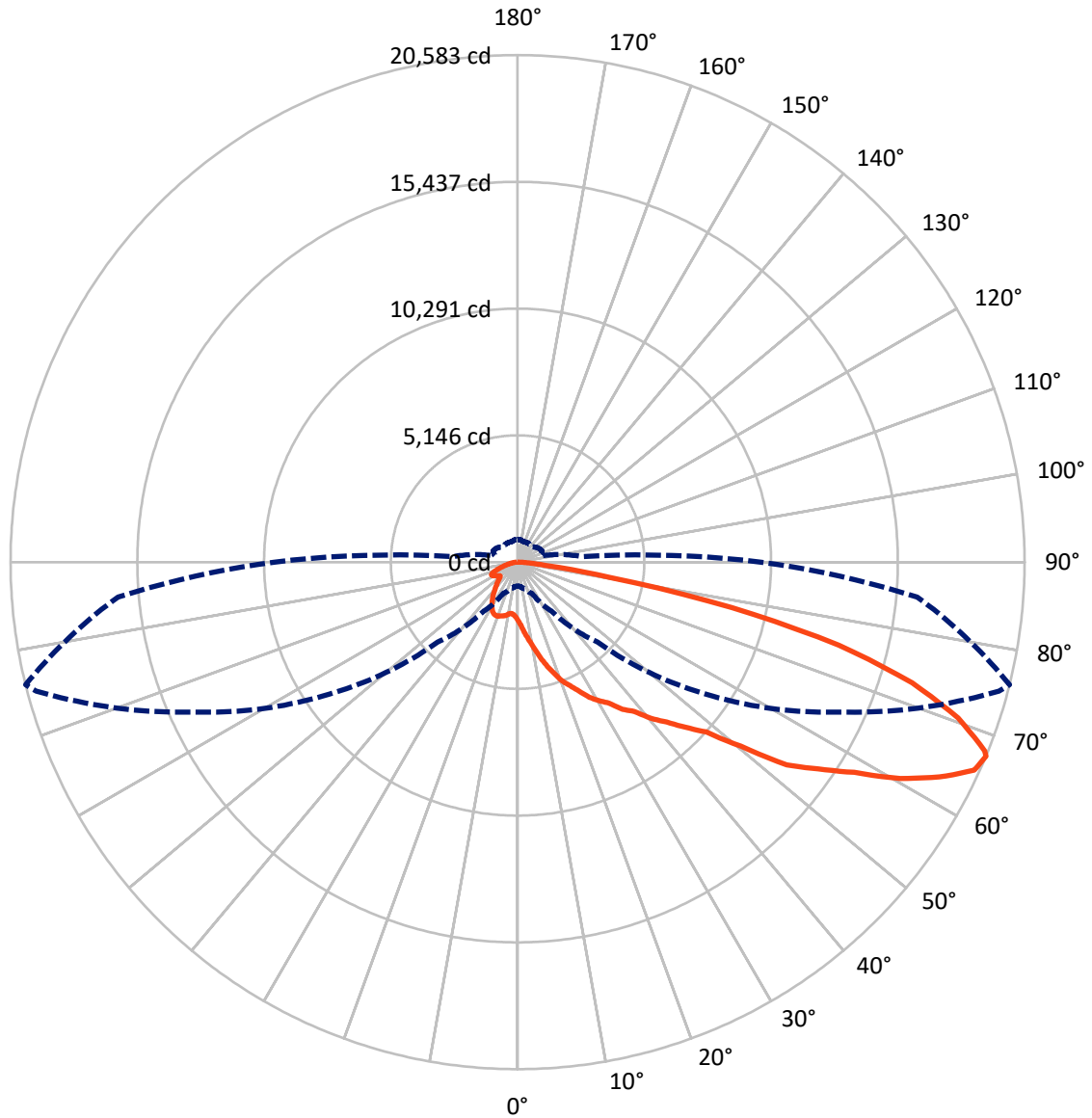
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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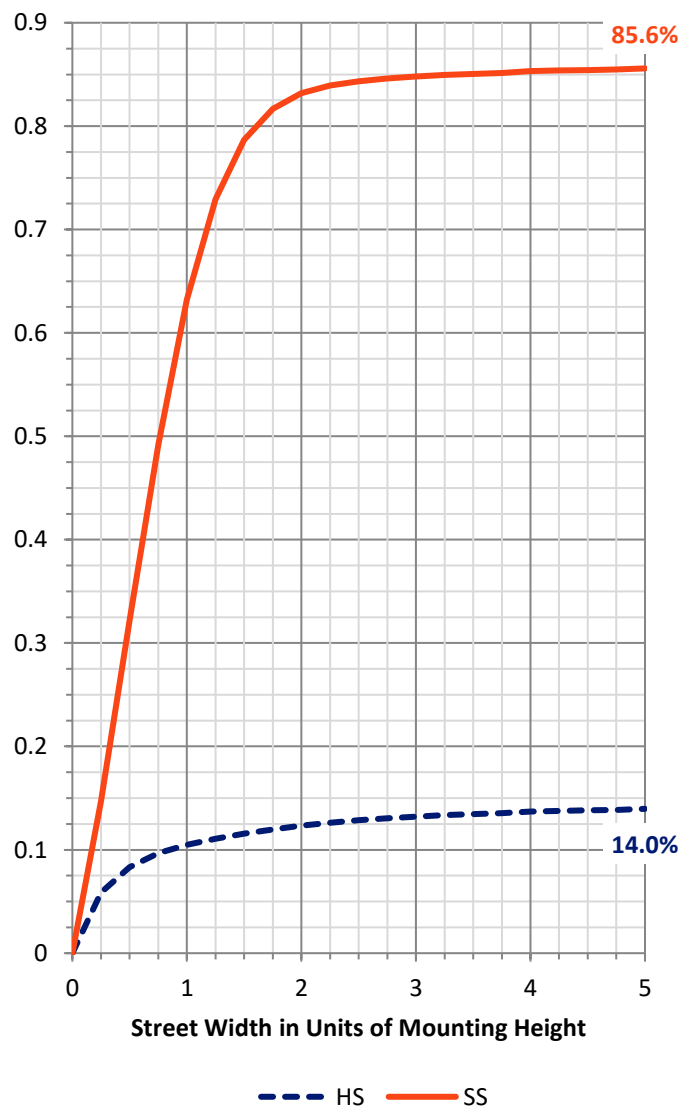
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3290.0	0.0	3290.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	19836.1	0.0	19836.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	23126.1	0.0	23126.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.1	1.2
10°-20°	1028.2	4.4
20°-30°	1911.5	8.3
30°-40°	3030.1	13.1
40°-50°	4190.9	18.1
50°-60°	5155.1	22.3
60°-70°	4797.1	20.7
70°-80°	2407.1	10.4
80°-90°	331.9	1.4
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°	23126.1	100.0
0°-180°	23126.1	100.0

**Coefficient of Utilization**



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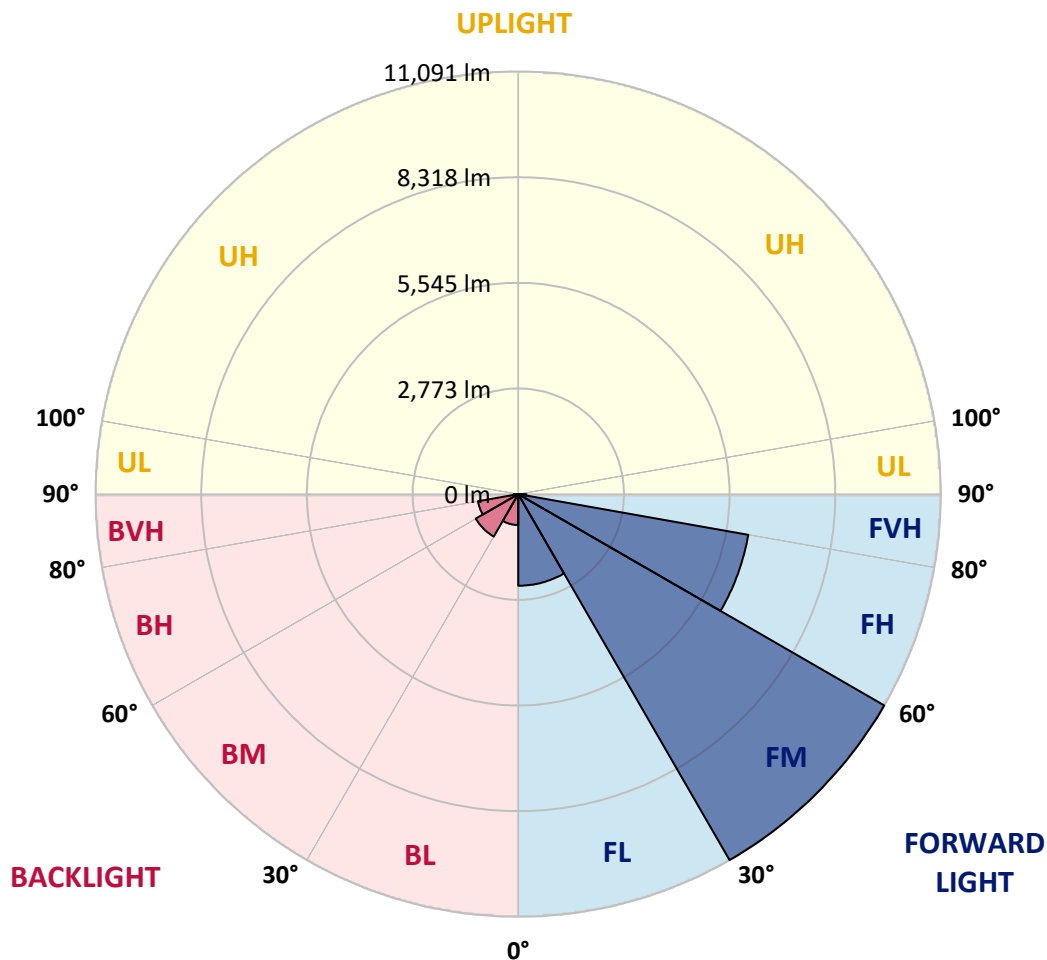
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2403.6	10.4			
FM (30°-60°)	11090.5	48.0			
FH (60°-80°)	6130.5	26.5			G3/7500
FVH (80°-90°)	211.5	0.9			G2/225
BL (0°-30°)	810.2	3.5	B2/1000		
BM (30°-60°)	1285.7	5.6	B2/2500		
BH (60°-80°)	1073.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	120.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6
2.5°	3283.7	3244.2	3204.7	3120.3	3091.3	3012.3	2867.3	2706.6	2574.8	2556.3	2464.1
5°	4074.3	4016.4	4003.2	3955.8	3805.5	3652.7	3415.5	3157.2	2835.7	2859.4	2543.2
7.5°	4667.3	4633.1	4561.9	4517.1	4427.5	4224.6	3979.5	3636.9	3228.4	3149.3	2719.7
10°	5115.3	5067.9	5065.3	5025.7	4978.3	4770.1	4583.0	4121.8	3597.3	3489.3	2935.8
12.5°	5342.0	5334.1	5473.7	5473.7	5455.3	5368.3	5046.8	4625.1	3947.8	3910.9	3186.2
15°	5587.1	5521.2	5642.4	5734.7	5782.1	5826.9	5560.7	5115.3	4395.9	4324.7	3455.0
17.5°	5587.1	5581.8	5703.0	5855.9	6103.6	6161.6	6016.6	5566.0	4767.5	4714.8	3750.2
20°	5492.2	5568.6	5653.0	5858.5	6127.3	6361.9	6404.0	6027.2	5178.6	5136.4	4084.9
22.5°	5934.9	5861.2	5948.1	6027.2	6235.4	6591.2	6707.1	6433.0	5610.8	5450.0	4388.0
25°	6678.1	6628.1	6564.8	6448.9	6535.8	6691.3	6867.9	6733.5	5979.7	5800.5	4680.5
27.5°	7402.9	7405.5	7268.5	7015.5	6828.3	6860.0	7068.2	6997.0	6290.7	6211.7	4880.8
30°	8433.3	8370.1	8217.2	7874.6	7508.3	7207.8	7173.6	7242.1	6686.0	6533.2	5168.0
32.5°	9205.5	9218.7	9002.6	8509.7	8009.0	7763.9	7463.5	7492.5	6936.4	6823.1	5397.3
35°	9830.1	9814.3	9661.4	9252.9	8660.0	8364.8	7958.9	7792.9	7518.8	7339.6	5747.8
37.5°	10504.7	10375.6	10127.9	9666.7	9287.2	8878.7	8483.4	8109.2	7906.2	7690.1	6048.3
40°	10776.2	10776.2	10444.1	10233.3	9782.6	9474.3	9218.7	8525.6	8378.0	8335.8	6433.0
42.5°	10583.8	10702.4	10565.4	10325.5	10141.1	9751.0	9682.5	8957.8	8960.4	8876.1	6894.2
45°	10565.4	10402.0	10288.6	10349.3	10262.3	10241.2	10415.1	9556.0	9571.8	9561.3	7513.6
47.5°	10035.6	9961.9	10130.5	10230.7	10301.8	10628.6	11129.3	10270.2	10383.5	10304.5	8227.8
50°	9508.6	9495.4	9600.8	9964.5	10272.8	10810.5	11809.3	11371.8	11743.4	11738.1	9521.7
52.5°	8064.4	8204.0	8617.8	9387.3	10149.0	11058.2	12323.2	12779.1	13488.0	13680.4	10594.4
55°	6683.4	6609.6	7221.0	8338.4	9608.7	11155.7	12897.7	13625.1	14668.7	14808.4	11696.0
57.5°	5199.7	5336.7	5819.0	6891.6	8491.3	10673.4	13319.4	14460.5	16002.2	16110.3	12974.1
60°	3879.3	3897.8	4427.5	5291.9	7004.9	9585.0	13456.4	15317.0	17530.8	17839.1	14312.9
62.5°	2440.4	2551.1	2954.3	3805.5	5273.5	8061.7	12842.4	15836.2	19133.1	19214.8	15662.2
65°	1315.1	1386.2	1689.3	2224.3	3684.3	6098.3	11213.7	15525.2	19886.8	20371.7	16263.1
67°	972.5	985.6	1125.3	1420.5	2464.1	4590.9	9350.4	14399.9	20229.4	20582.6	16286.8
67.5°	911.9	930.3	1041.0	1275.5	2184.8	4227.2	8862.9	13999.3	20076.6	20456.1	16102.4
70°	780.1	785.4	811.7	877.6	1225.5	2543.2	6035.1	11471.9	18608.6	18972.3	14808.4
72.5°	693.1	698.4	708.9	722.1	830.2	1470.6	3671.1	8828.6	16173.5	16753.3	12776.5
75°	608.8	627.2	632.5	622.0	706.3	956.7	1952.8	6488.4	13192.9	13474.9	9935.5
77.5°	516.5	524.4	535.0	545.5	629.9	714.2	938.2	4380.1	9055.3	8884.0	5373.6
80°	434.8	437.5	445.4	453.3	545.5	545.5	532.4	2366.6	3955.8	3781.8	1815.8
82.5°	311.0	329.4	347.9	369.0	453.3	366.3	347.9	1054.2	1251.8	1191.2	614.1
85°	121.2	147.6	229.3	253.0	287.3	197.7	231.9	455.9	521.8	516.5	229.3
87.5°	21.1	23.7	63.2	97.5	105.4	68.5	110.7	163.4	195.0	210.8	84.3
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°	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6	2366.6
2.5°	2387.7	2306.0	2208.5	2111.0	2047.7	1947.6	1939.7	1879.0	1871.1	1850.1	1860.6
5°	2406.1	2308.6	2111.0	1955.5	1884.3	1826.3	1839.5	1813.2	1805.3	1792.1	1771.0
7.5°	2551.1	2358.7	2063.5	1929.1	1876.4	1850.1	1850.1	1818.4	1794.7	1810.5	1826.3
10°	2646.0	2382.4	2100.4	1966.0	1923.8	1865.9	1887.0	1847.4	1860.6	1829.0	1829.0
12.5°	2798.8	2516.8	2176.8	2021.4	1952.8	1900.1	1921.2	1876.4	1865.9	1868.5	1860.6
15°	3004.4	2606.4	2211.1	2053.0	2005.5	1939.7	1923.8	1884.3	1844.8	1831.6	1847.4
17.5°	3196.8	2717.1	2234.8	2071.4	1995.0	1921.2	1902.8	1852.7	1839.5	1800.0	1768.4
20°	3426.0	2848.9	2266.5	2087.2	1955.5	1881.7	1834.2	1784.2	1739.4	1715.7	1726.2
22.5°	3578.9	2917.4	2282.3	2055.6	1897.5	1829.0	1728.8	1694.6	1631.3	1605.0	1583.9
25°	3829.3	3001.7	2242.7	1968.7	1794.7	1684.0	1594.4	1547.0	1502.2	1467.9	1457.4
27.5°	3892.5	3065.0	2150.5	1821.1	1631.3	1515.4	1438.9	1381.0	1352.0	1299.3	1288.7
30°	4077.0	3001.7	2013.5	1641.9	1475.8	1357.2	1280.8	1238.6	1170.1	1156.9	1128.0
32.5°	4195.6	3020.2	1839.5	1467.9	1296.6	1191.2	1141.1	1099.0	1080.5	1017.3	1001.5
35°	4393.2	2956.9	1662.9	1307.2	1149.0	1067.3	1025.2	1012.0	951.4	922.4	896.0
37.5°	4519.7	2920.0	1486.4	1125.3	988.3	954.0	967.2	911.9	838.1	782.7	764.3
40°	4741.1	2906.9	1286.1	975.1	877.6	869.7	911.9	806.4	672.0	624.6	598.2
42.5°	5060.0	2817.3	1130.6	840.7	790.6	824.9	832.8	672.0	595.6	556.1	537.6
45°	5365.7	2835.7	977.7	695.7	687.8	737.9	719.5	569.2	524.4	495.5	511.3
47.5°	5953.4	2927.9	827.5	579.8	619.3	666.8	558.7	508.6	466.5	445.4	448.0
50°	6862.6	3017.5	695.7	529.7	585.1	603.5	479.6	461.2	458.6	416.4	413.8
52.5°	7408.1	2983.3	672.0	593.0	627.2	603.5	521.8	508.6	487.6	469.1	448.0
55°	8275.2	3083.4	722.1	693.1	711.6	579.8	585.1	579.8	564.0	516.5	529.7
57.5°	8965.7	3149.3	788.0	774.8	764.3	603.5	611.4	614.1	603.5	582.4	600.9
60°	9914.4	3281.1	856.5	859.1	861.8	656.2	669.4	685.2	682.6	674.7	679.9
62.5°	10496.8	3220.5	932.9	975.1	961.9	764.3	761.6	772.2	772.2	785.4	793.3
65°	10409.9	2996.5	972.5	1077.9	1009.4	843.3	843.3	848.6	851.2	877.6	880.2
67°	9888.1	2595.9	951.4	1093.7	1009.4	875.0	875.0	880.2	861.8	930.3	909.2
67.5°	9645.6	2477.3	932.9	1080.5	1001.5	872.3	872.3	875.0	859.1	925.0	903.9
70°	8388.5	1839.5	803.8	956.7	927.7	848.6	848.6	832.8	819.6	906.6	888.1
72.5°	7160.4	1336.2	645.7	814.3	838.1	817.0	822.2	782.7	745.8	806.4	790.6
75°	5484.3	983.0	503.4	627.2	708.9	764.3	798.5	698.4	650.9	666.8	637.8
77.5°	3059.7	640.4	397.9	463.8	540.3	711.6	766.9	629.9	532.4	513.9	513.9
80°	1038.4	374.2	292.5	345.2	371.6	629.9	716.8	511.3	419.0	400.6	387.4
82.5°	392.7	229.3	200.3	237.2	237.2	498.1	585.1	392.7	316.2	408.5	416.4
85°	179.2	137.0	131.8	137.0	137.0	305.7	413.8	255.6	284.6	245.1	216.1
87.5°	71.2	65.9	60.6	58.0	47.4	52.7	142.3	68.5	129.1	34.3	31.6
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)