

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: P477124

Luminaire Tested: **IFLD-M-SA4B-827-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477124  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-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**

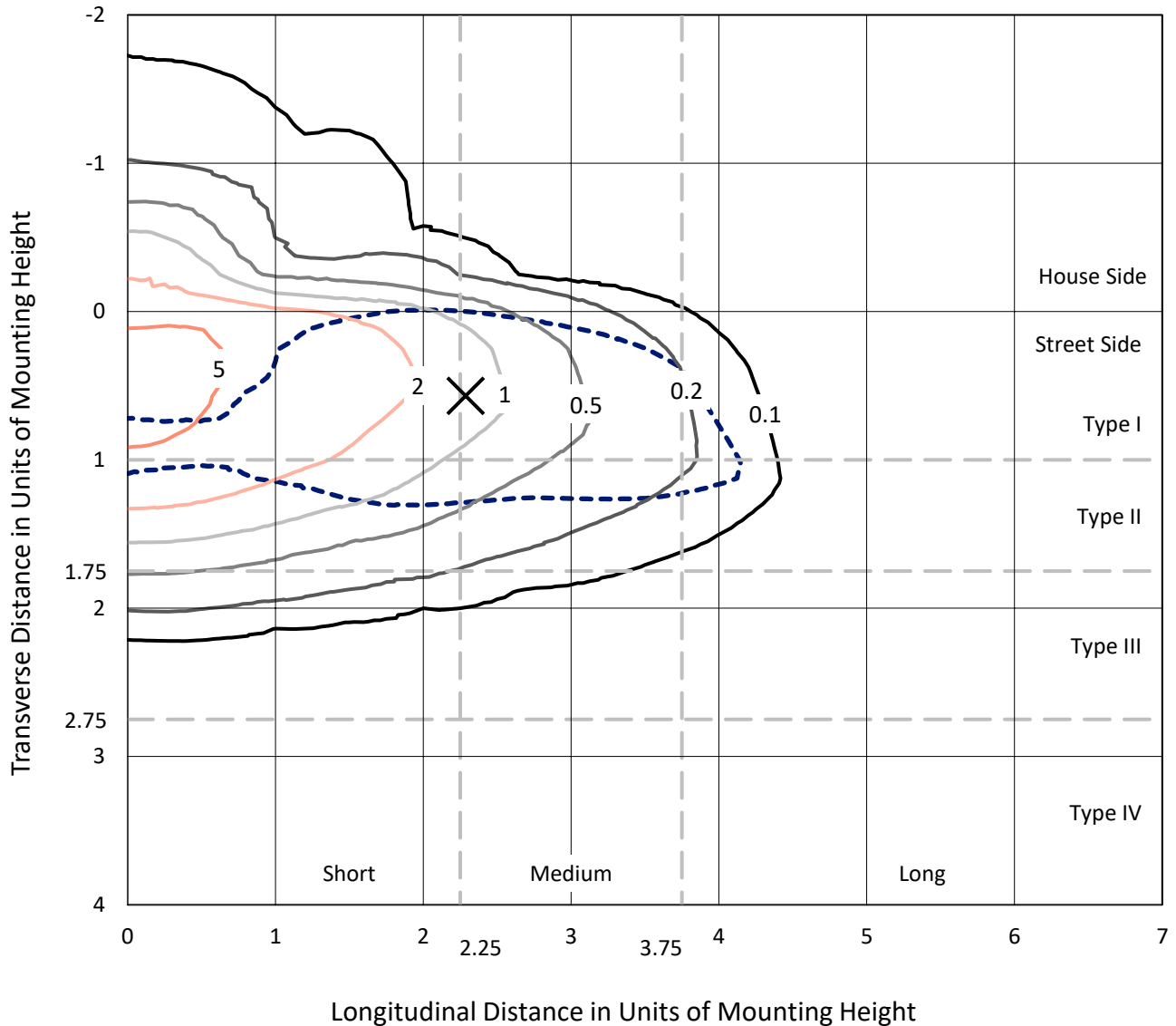
Lumens per Lamp: N/A  
Luminaire Lumens: 16883.6 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 166.1  
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

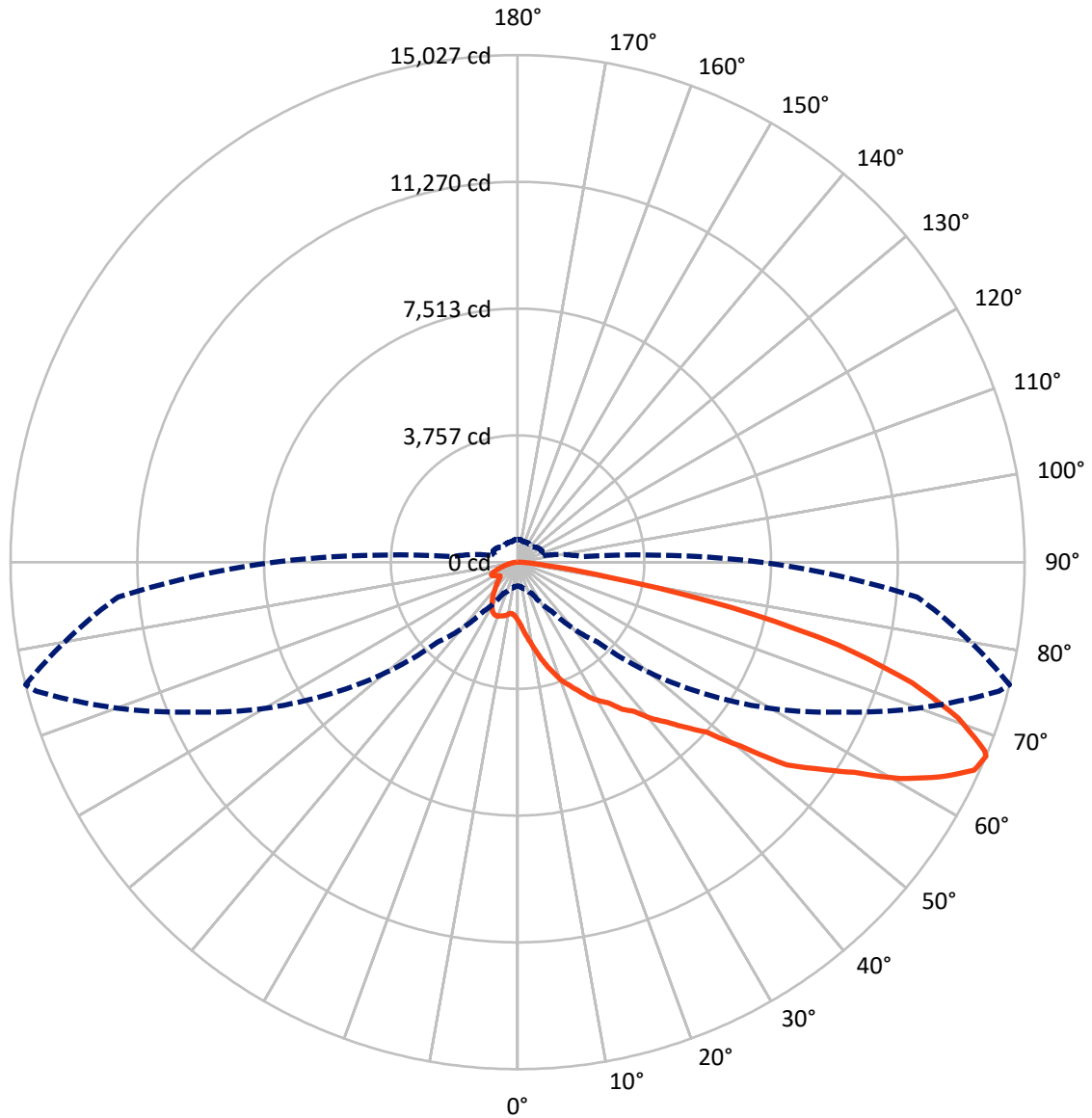
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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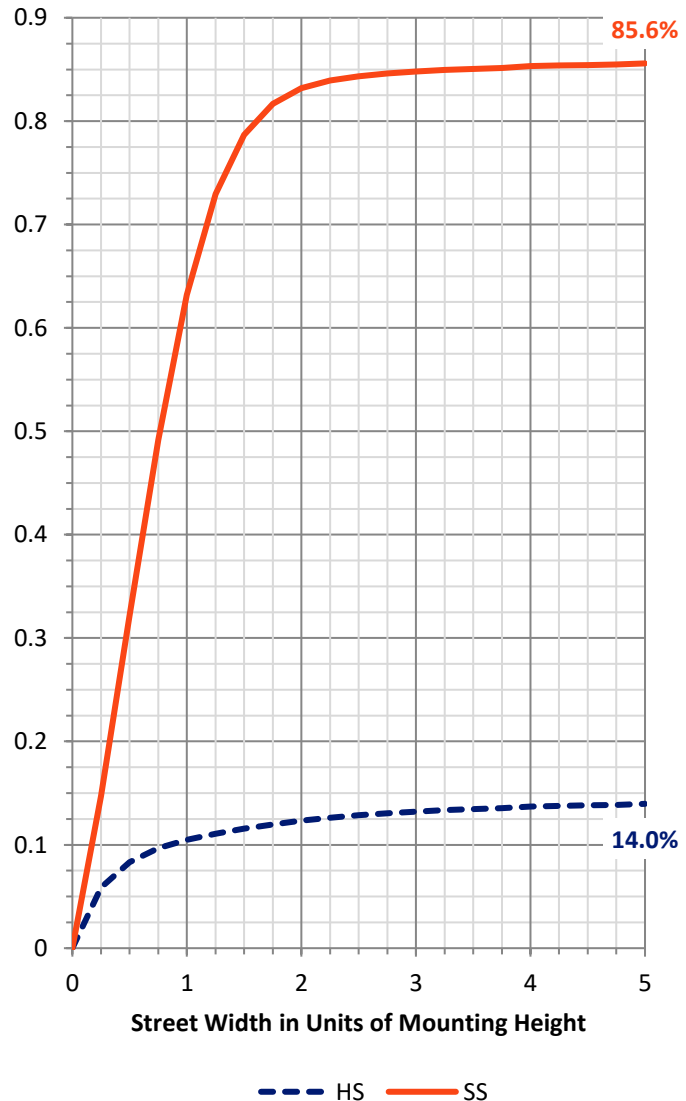
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2401.9	0.0	2401.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	14481.7	0.0	14481.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	16883.6	0.0	16883.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.1	1.2
10°-20°	750.6	4.4
20°-30°	1395.5	8.3
30°-40°	2212.2	13.1
40°-50°	3059.7	18.1
50°-60°	3763.6	22.3
60°-70°	3502.2	20.7
70°-80°	1757.4	10.4
80°-90°	242.3	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°	16883.6	100.0
0°-180°	16883.6	100.0

**Coefficient of Utilization**



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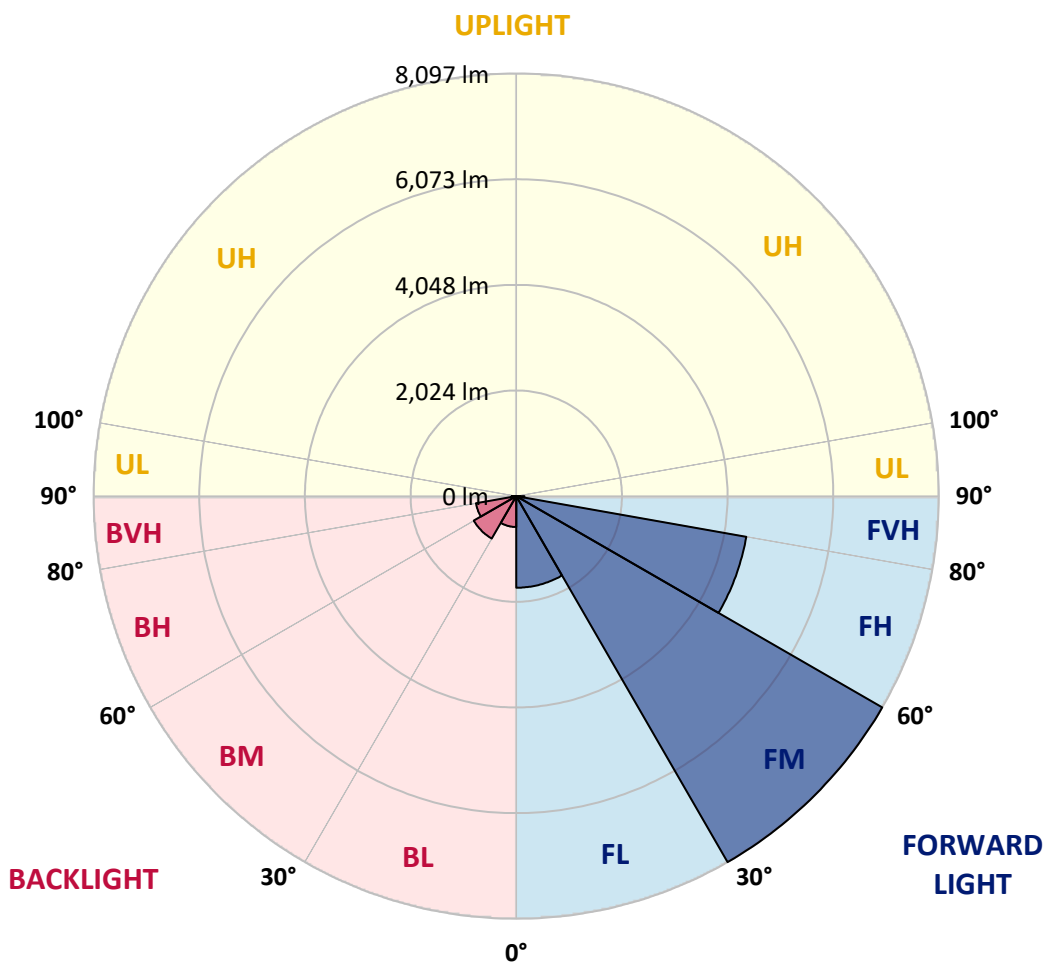
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1754.8	10.4			
FM (30°-60°)	8096.8	48.0			
FH (60°-80°)	4475.7	26.5			G2/5000
FVH (80°-90°)	154.4	0.9			G2/225
BL (0°-30°)	591.5	3.5	B2/1000		
BM (30°-60°)	938.6	5.6	B1/1000		
BH (60°-80°)	783.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	87.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8
2.5°	2397.3	2368.5	2339.6	2278.1	2256.9	2199.2	2093.3	1976.0	1879.8	1866.3	1799.0
5°	2974.6	2932.2	2922.6	2888.0	2778.3	2666.7	2493.5	2305.0	2070.3	2087.6	1856.7
7.5°	3407.5	3382.5	3330.5	3297.8	3232.4	3084.2	2905.3	2655.2	2356.9	2299.2	1985.6
10°	3734.5	3699.9	3698.0	3669.1	3634.5	3482.5	3345.9	3009.2	2626.3	2547.4	2143.4
12.5°	3900.0	3894.2	3996.2	3996.2	3982.7	3919.3	3684.5	3376.7	2882.2	2855.3	2326.2
15°	4079.0	4030.8	4119.4	4186.7	4221.3	4254.0	4059.7	3734.5	3209.3	3157.3	2522.4
17.5°	4079.0	4075.1	4163.6	4275.2	4456.1	4498.4	4392.6	4063.6	3480.6	3442.1	2737.9
20°	4009.7	4065.5	4127.1	4277.1	4473.4	4644.6	4675.4	4400.3	3780.7	3749.9	2982.3
22.5°	4332.9	4279.1	4342.5	4400.3	4552.3	4812.0	4896.7	4696.6	4096.3	3978.9	3203.5
25°	4875.5	4838.9	4792.8	4708.1	4771.6	4885.1	5014.0	4915.9	4365.6	4234.8	3417.1
27.5°	5404.6	5406.5	5306.5	5121.8	4985.2	5008.3	5160.3	5108.3	4592.7	4534.9	3563.3
30°	6156.9	6110.7	5999.1	5749.0	5481.6	5262.2	5237.2	5287.2	4881.3	4769.7	3773.0
32.5°	6720.6	6730.3	6572.5	6212.7	5847.1	5668.2	5448.9	5470.0	5064.1	4981.3	3940.4
35°	7176.6	7165.1	7053.5	6755.3	6322.4	6106.9	5810.6	5689.4	5489.3	5358.4	4196.3
37.5°	7669.2	7574.9	7394.1	7057.4	6780.3	6482.1	6193.5	5920.3	5772.1	5614.3	4415.7
40°	7867.4	7867.4	7624.9	7471.0	7142.0	6916.9	6730.3	6224.2	6116.5	6085.7	4696.6
42.5°	7726.9	7813.5	7713.4	7538.4	7403.7	7118.9	7068.9	6539.8	6541.7	6480.1	5033.3
45°	7713.4	7594.2	7511.4	7555.7	7492.2	7476.8	7603.8	6976.5	6988.1	6980.4	5485.4
47.5°	7326.7	7272.8	7396.0	7469.1	7521.0	7759.6	8125.2	7498.0	7580.7	7523.0	6006.8
50°	6941.9	6932.3	7009.3	7274.8	7499.9	7892.4	8621.6	8302.2	8573.5	8569.6	6951.5
52.5°	5887.5	5989.5	6291.6	6853.4	7409.5	8073.2	8996.8	9329.6	9847.2	9987.7	7734.6
55°	4879.3	4825.5	5271.9	6087.6	7015.0	8144.4	9416.2	9947.3	10709.2	10811.1	8538.9
57.5°	3796.1	3896.2	4248.3	5031.3	6199.2	7792.3	9724.1	10557.2	11682.7	11761.6	9472.0
60°	2832.2	2845.6	3232.4	3863.5	5114.1	6997.7	9824.1	11182.5	12798.7	13023.8	10449.4
62.5°	1781.7	1862.5	2156.8	2778.3	3850.0	5885.6	9375.8	11561.5	13968.5	14028.1	11434.5
65°	960.1	1012.0	1233.3	1623.9	2689.8	4452.2	8186.8	11334.5	14518.8	14872.8	11873.2
67°	710.0	719.6	821.6	1037.1	1799.0	3351.7	6826.5	10512.9	14768.9	15026.7	11890.5
67.5°	665.7	679.2	760.0	931.2	1595.0	3086.1	6470.5	10220.5	14657.3	14934.3	11755.8
70°	569.5	573.4	592.6	640.7	894.7	1856.7	4406.0	8375.3	13585.6	13851.1	10811.1
72.5°	506.0	509.9	517.6	527.2	606.1	1073.6	2680.2	6445.5	11807.8	12231.1	9327.7
75°	444.5	457.9	461.8	454.1	515.6	698.4	1425.7	4737.0	9631.7	9837.6	7253.6
77.5°	377.1	382.9	390.6	398.3	459.8	521.4	685.0	3197.7	6611.0	6485.9	3923.1
80°	317.5	319.4	325.2	330.9	398.3	398.3	388.7	1727.8	2888.0	2761.0	1325.7
82.5°	227.0	240.5	254.0	269.4	330.9	267.4	254.0	769.6	913.9	869.7	448.3
85°	88.5	107.7	167.4	184.7	209.7	144.3	169.3	332.9	381.0	377.1	167.4
87.5°	15.4	17.3	46.2	71.2	77.0	50.0	80.8	119.3	142.4	153.9	61.6
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°	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8
2.5°	1743.2	1683.5	1612.3	1541.2	1495.0	1421.9	1416.1	1371.8	1366.1	1350.7	1358.4
5°	1756.6	1685.5	1541.2	1427.6	1375.7	1333.4	1343.0	1323.7	1318.0	1308.3	1293.0
7.5°	1862.5	1722.0	1506.5	1408.4	1369.9	1350.7	1350.7	1327.6	1310.3	1321.8	1333.4
10°	1931.7	1739.3	1533.5	1435.3	1404.5	1362.2	1377.6	1348.7	1358.4	1335.3	1335.3
12.5°	2043.3	1837.5	1589.3	1475.7	1425.7	1387.2	1402.6	1369.9	1362.2	1364.1	1358.4
15°	2193.4	1902.9	1614.3	1498.8	1464.2	1416.1	1404.5	1375.7	1346.8	1337.2	1348.7
17.5°	2333.9	1983.7	1631.6	1512.3	1456.5	1402.6	1389.2	1352.6	1343.0	1314.1	1291.0
20°	2501.2	2079.9	1654.7	1523.8	1427.6	1373.8	1339.1	1302.6	1269.9	1252.5	1260.2
22.5°	2612.8	2129.9	1666.2	1500.7	1385.3	1335.3	1262.2	1237.2	1191.0	1171.7	1156.3
25°	2795.6	2191.5	1637.4	1437.3	1310.3	1229.5	1164.0	1129.4	1096.7	1071.7	1064.0
27.5°	2841.8	2237.7	1570.0	1329.5	1191.0	1106.3	1050.5	1008.2	987.0	948.5	940.9
30°	2976.5	2191.5	1470.0	1198.7	1077.5	990.9	935.1	904.3	854.3	844.7	823.5
32.5°	3063.1	2204.9	1343.0	1071.7	946.6	869.7	833.1	802.3	788.9	742.7	731.1
35°	3207.4	2158.8	1214.1	954.3	838.9	779.2	748.4	738.8	694.6	673.4	654.2
37.5°	3299.7	2131.8	1085.2	821.6	721.5	696.5	706.1	665.7	611.8	571.4	558.0
40°	3461.3	2122.2	938.9	711.9	640.7	634.9	665.7	588.8	490.6	456.0	436.8
42.5°	3694.1	2056.8	825.4	613.8	577.2	602.2	608.0	490.6	434.8	406.0	392.5
45°	3917.3	2070.3	713.8	507.9	502.2	538.7	525.3	415.6	382.9	361.7	373.3
47.5°	4346.4	2137.6	604.1	423.3	452.1	486.8	407.9	371.3	340.6	325.2	327.1
50°	5010.2	2203.0	507.9	386.7	427.1	440.6	350.2	336.7	334.8	304.0	302.1
52.5°	5408.5	2178.0	490.6	432.9	457.9	440.6	381.0	371.3	355.9	342.5	327.1
55°	6041.5	2251.1	527.2	506.0	519.5	423.3	427.1	423.3	411.7	377.1	386.7
57.5°	6545.6	2299.2	575.3	565.7	558.0	440.6	446.4	448.3	440.6	425.2	438.7
60°	7238.2	2395.4	625.3	627.2	629.2	479.1	488.7	500.2	498.3	492.6	496.4
62.5°	7663.4	2351.2	681.1	711.9	702.3	558.0	556.0	563.7	563.7	573.4	579.1
65°	7599.9	2187.6	710.0	786.9	736.9	615.7	615.7	619.5	621.5	640.7	642.6
67°	7219.0	1895.2	694.6	798.5	736.9	638.8	638.8	642.6	629.2	679.2	663.8
67.5°	7042.0	1808.6	681.1	788.9	731.1	636.9	636.9	638.8	627.2	675.3	659.9
70°	6124.2	1343.0	586.8	698.4	677.3	619.5	619.5	608.0	598.4	661.9	648.4
72.5°	5227.6	975.5	471.4	594.5	611.8	596.5	600.3	571.4	544.5	588.8	577.2
75°	4003.9	717.7	367.5	457.9	517.6	558.0	583.0	509.9	475.2	486.8	465.6
77.5°	2233.8	467.5	290.5	338.6	394.4	519.5	559.9	459.8	388.7	375.2	375.2
80°	758.1	273.2	213.6	252.0	271.3	459.8	523.3	373.3	305.9	292.5	282.8
82.5°	286.7	167.4	146.2	173.2	173.2	363.6	427.1	286.7	230.9	298.2	304.0
85°	130.8	100.0	96.2	100.0	100.0	223.2	302.1	186.6	207.8	178.9	157.8
87.5°	51.9	48.1	44.3	42.3	34.6	38.5	103.9	50.0	94.3	25.0	23.1
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)