

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: P480519

Luminaire Tested: **IFLD-M-SA4D-740-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480519  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-740-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

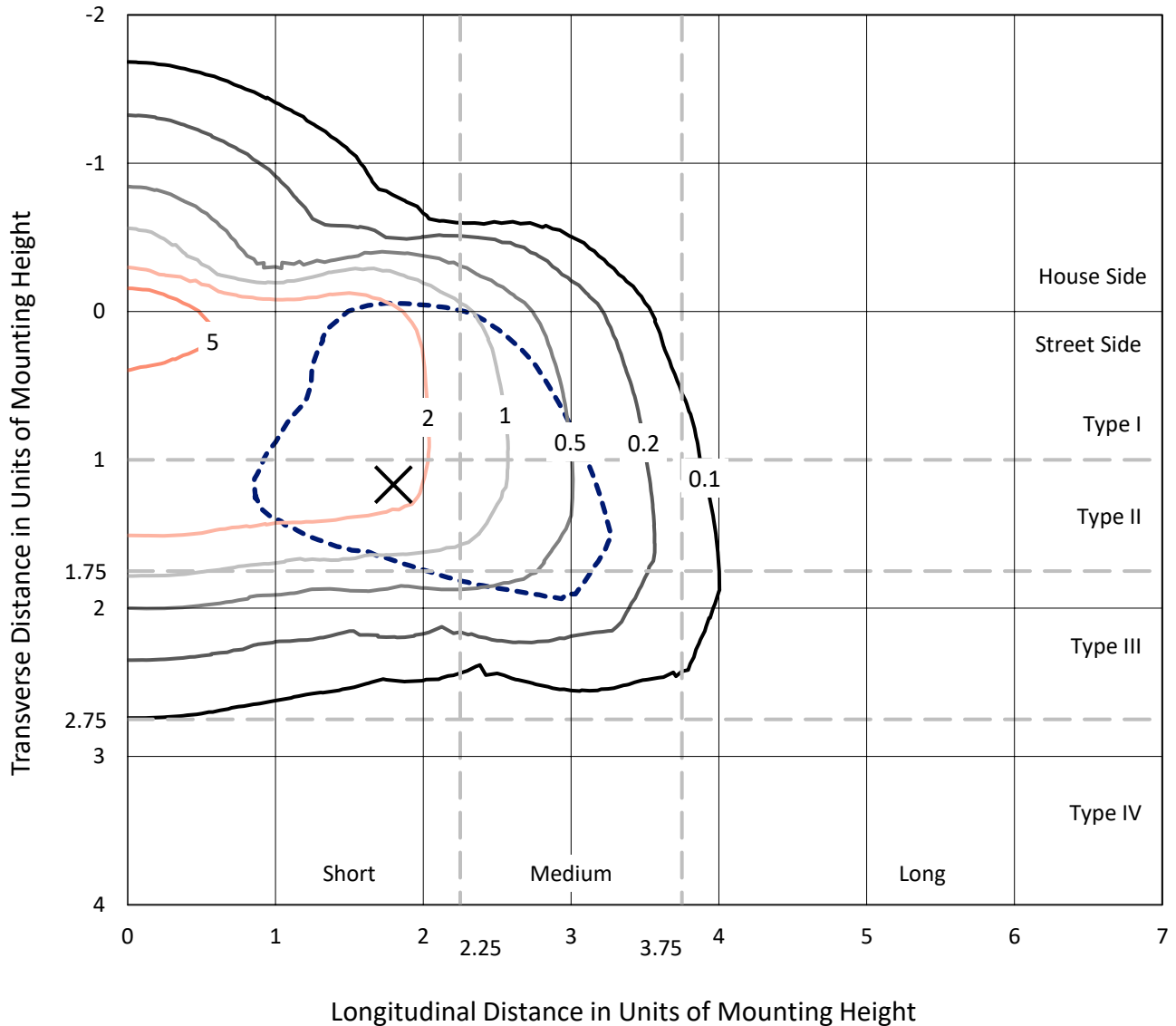
Lumens per Lamp: N/A  
Luminaire Lumens: 30868.6 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

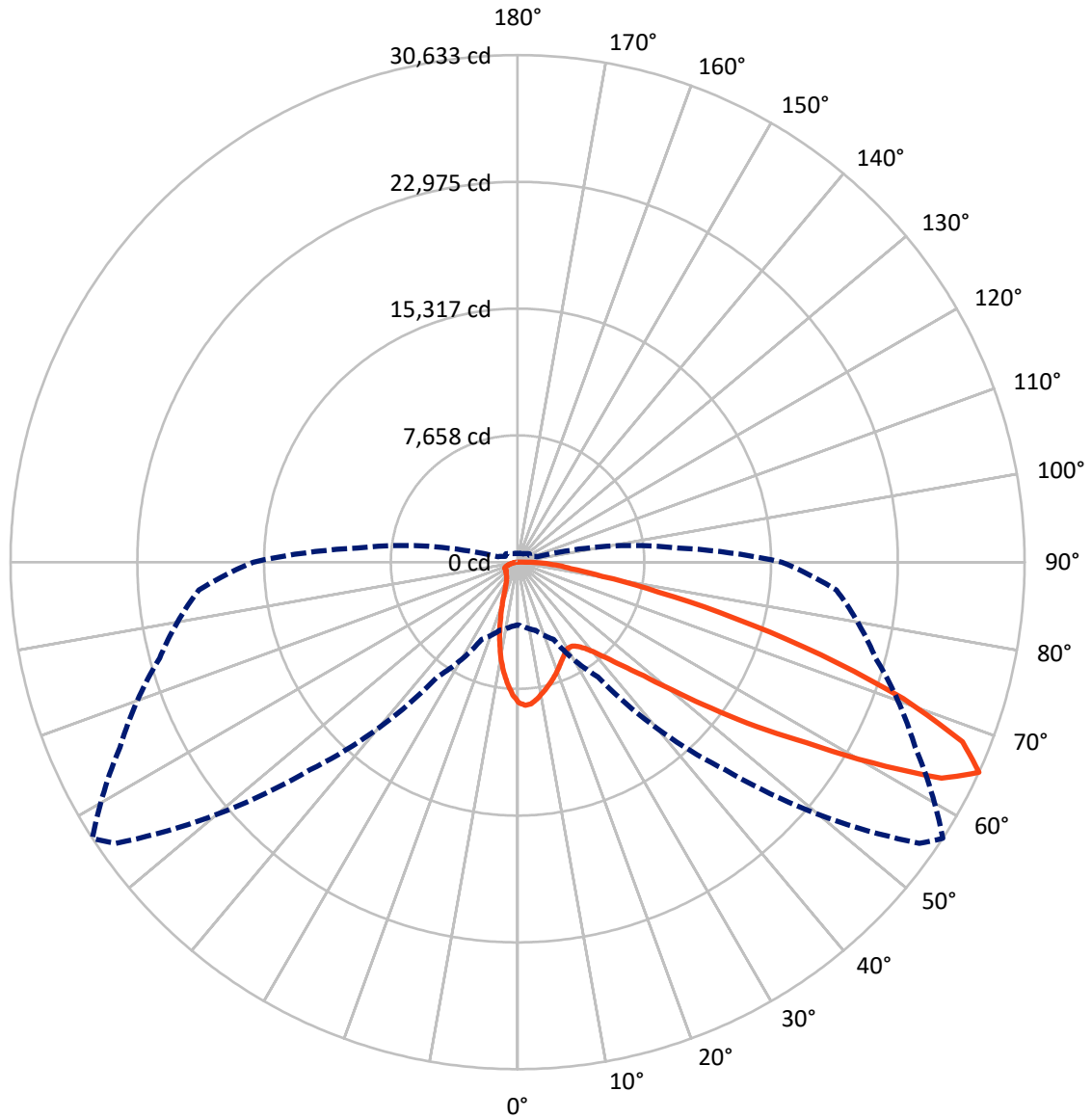
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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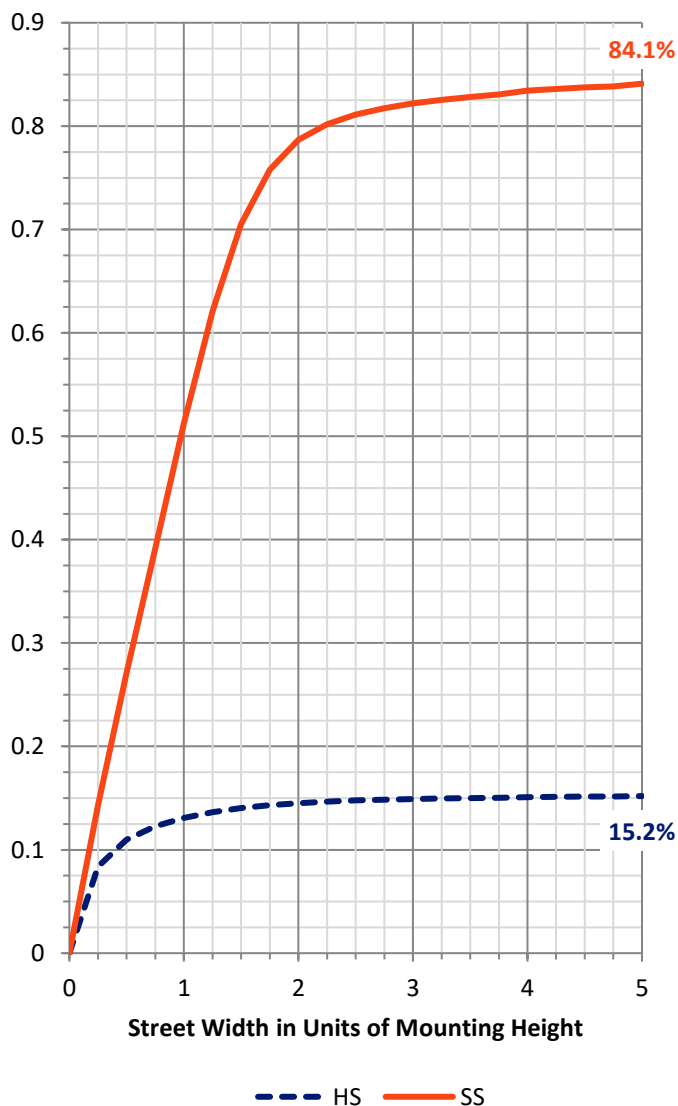
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4734.0	0.0	4734.0
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	26134.7	0.0	26134.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	30868.6	0.0	30868.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	710.8	2.3
10°-20°	1529.8	5.0
20°-30°	1978.0	6.4
30°-40°	2661.7	8.6
40°-50°	4244.2	13.7
50°-60°	7496.2	24.3
60°-70°	8246.8	26.7
70°-80°	3449.8	11.2
80°-90°	551.3	1.8
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°	30868.6	100.0
0°-180°	30868.6	100.0

**Coefficient of Utilization**



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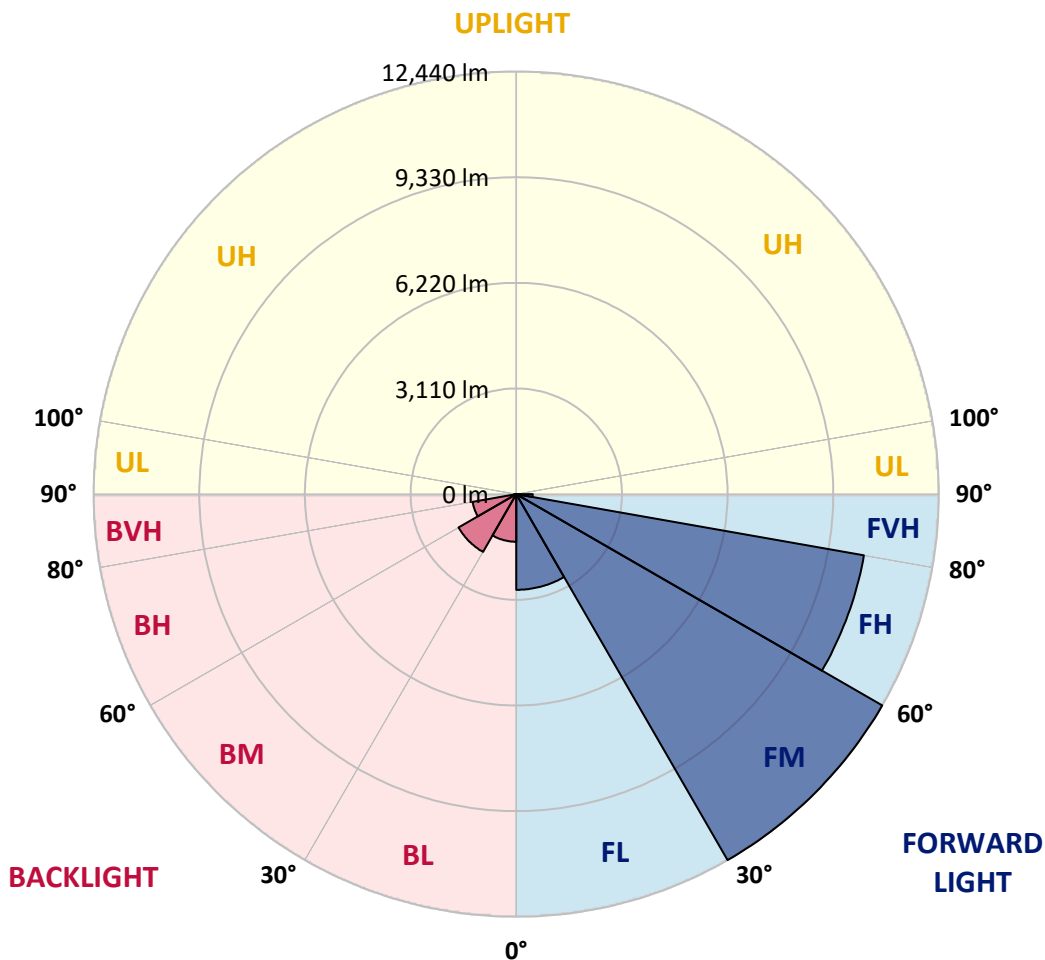
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2816.7	9.1			
FM (30°-60°)	12440.0	40.3			
FH (60°-80°)	10391.3	33.7			G4/12000
FVH (80°-90°)	486.7	1.6			G3/500
BL (0°-30°)	1402.0	4.5	B3/2500		
BM (30°-60°)	1962.0	6.4	B2/2500		
BH (60°-80°)	1305.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	64.7	0.2			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4
2.5°	8717.7	8731.6	8731.6	8759.4	8665.6	8710.7	8703.8	8662.1	8676.0	8603.1	8530.1
5°	8471.1	8460.7	8516.2	8523.2	8596.1	8617.0	8634.3	8606.5	8613.5	8453.7	8384.2
7.5°	7839.0	7835.5	7929.3	8009.1	8162.0	8304.4	8398.1	8370.4	8408.6	8307.8	8144.6
10°	7088.8	7168.6	7265.9	7345.8	7627.1	7807.7	8050.8	8075.1	8221.0	8196.7	7901.5
12.5°	6526.1	6560.8	6633.8	6863.0	7120.0	7418.7	7766.0	7797.3	7939.7	8009.1	7752.1
15°	6064.2	6095.4	6189.2	6359.4	6647.7	7001.9	7443.0	7522.9	7807.7	7832.0	7557.6
17.5°	5727.3	5751.6	5814.1	5984.3	6220.5	6675.4	7092.2	7234.6	7609.7	7727.8	7356.2
20°	5595.3	5543.2	5577.9	5685.6	5921.8	6272.6	6810.9	6935.9	7415.2	7647.9	7165.2
22.5°	5536.2	5491.1	5511.9	5505.0	5692.5	5942.6	6508.7	6640.7	7231.2	7554.2	6995.0
25°	5581.4	5581.4	5560.6	5543.2	5564.0	5727.3	6182.3	6387.2	6984.6	7474.3	6821.3
27.5°	5824.5	5730.7	5741.2	5668.2	5647.4	5647.4	6036.4	6157.9	6904.7	7429.1	6678.9
30°	5980.8	6026.0	6029.4	5921.8	5814.1	5619.6	5900.9	6019.0	6838.7	7484.7	6595.6
32.5°	6380.2	6359.4	6300.3	6279.5	6119.7	5900.9	5966.9	6046.8	6800.5	7609.7	6619.9
35°	6779.6	6769.2	6772.7	6762.3	6595.6	6272.6	6144.1	6251.7	6869.9	7828.5	6703.2
37.5°	7192.9	7220.7	7338.8	7338.8	7161.7	6810.9	6640.7	6609.5	7123.5	8186.3	6901.2
40°	7606.3	7675.7	7825.1	8061.2	7811.2	7484.7	7210.3	7161.7	7429.1	8665.6	7377.0
42.5°	8002.2	8116.8	8412.0	8762.8	8679.5	8353.0	7988.3	7932.7	8057.8	9377.6	8040.4
45°	8509.3	8606.5	9071.9	9610.3	9724.9	9436.6	9009.4	8964.3	8957.3	10419.5	8953.9
47.5°	9280.3	9384.5	9849.9	10391.7	10746.0	10791.2	10311.9	10263.2	10096.5	11826.2	10291.0
50°	10245.9	10416.1	10808.5	11440.6	11954.7	12437.4	12302.0	12159.6	11833.1	13462.0	11985.9
52.5°	10950.9	11159.3	11690.7	12500.0	13406.5	14174.0	14660.3	14660.3	13910.1	15257.7	14024.7
55°	11138.5	11263.5	11933.8	13104.3	14656.8	16598.3	17616.0	17539.5	16383.0	17147.1	16396.9
57.5°	10391.7	10555.0	11367.7	12593.7	15313.2	18866.3	20550.8	20568.2	19085.1	19342.1	18737.8
60°	8335.6	8387.7	9346.3	10985.7	14681.1	20693.2	24558.8	24624.8	22158.9	21297.5	19929.1
62.5°	5762.0	5928.7	6651.1	8089.0	12163.1	20488.3	28424.5	28751.0	24621.4	22329.1	20116.6
65°	3792.7	3893.4	4279.0	5154.2	8467.6	17758.4	29626.2	30633.4	26503.8	22388.1	19331.7
67.5°	2750.8	2768.1	2882.7	3334.2	5088.2	12770.9	27573.6	28994.1	27208.9	21894.9	17490.9
70°	2222.8	2236.7	2278.4	2566.7	3285.6	7991.8	22488.8	24715.1	25093.7	19557.5	14087.2
72.5°	1806.1	1823.4	1875.5	2146.4	2709.1	4445.7	16445.5	19158.0	20411.9	14469.3	9363.7
75°	1420.5	1434.4	1559.5	1826.9	2545.8	3052.9	10909.2	13566.2	13736.4	8457.2	4383.1
77.5°	972.5	996.8	1149.6	1549.0	2396.5	2670.9	6800.5	8689.9	7797.3	3309.9	1507.4
80°	618.2	653.0	743.3	1173.9	2118.6	2549.3	4230.3	5188.9	3414.1	1132.3	725.9
82.5°	364.7	399.4	489.7	760.6	1663.7	2365.2	2980.0	3247.4	1601.1	580.0	437.6
85°	201.4	225.8	295.2	458.5	976.0	2101.3	2386.1	2330.5	916.9	309.1	274.4
87.5°	66.0	76.4	107.7	184.1	402.9	989.9	1430.9	1344.1	475.8	142.4	107.7
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°	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4
2.5°	8481.5	8471.1	8314.8	8196.7	7995.3	7828.5	7762.6	7672.2	7668.8	7602.8	7585.4
5°	8276.6	8168.9	7929.3	7700.0	7342.3	7102.6	6883.8	6731.0	6668.5	6533.0	6501.8
7.5°	8012.6	7870.2	7502.1	7071.4	6651.1	6276.0	5935.7	5595.3	5404.3	5338.3	5265.3
10°	7738.2	7488.2	6942.9	6460.1	5873.1	5296.6	4761.7	4282.4	4021.9	3837.9	3758.0
12.5°	7519.4	7186.0	6491.4	5768.9	4994.4	4223.4	3601.7	3098.1	2802.9	2663.9	2601.4
15°	7272.8	6831.7	5998.2	5084.7	4119.2	3243.9	2636.1	2240.2	2122.1	2056.1	2045.7
17.5°	7012.3	6501.8	5463.3	4410.9	3264.8	2441.6	2049.2	1889.4	1837.3	1809.5	1795.6
20°	6769.2	6206.6	4914.5	3660.7	2556.3	1958.9	1774.8	1691.4	1688.0	1701.9	1698.4
22.5°	6425.4	5821.0	4372.7	2966.1	2042.2	1705.3	1587.2	1566.4	1587.2	1604.6	1611.6
25°	6230.9	5505.0	3768.4	2354.8	1688.0	1514.3	1476.1	1469.2	1500.4	1521.3	1517.8
27.5°	6029.4	5178.5	3205.7	1885.9	1479.6	1378.9	1371.9	1378.9	1410.1	1441.4	1437.9
30°	5873.1	4918.0	2677.8	1576.8	1319.8	1281.6	1274.7	1281.6	1299.0	1302.4	1302.4
32.5°	5744.6	4608.9	2229.8	1368.4	1222.6	1191.3	1198.2	1194.8	1198.2	1201.7	1205.2
35°	5668.2	4424.8	1861.6	1239.9	1142.7	1118.4	1114.9	1104.5	1107.9	1111.4	1107.9
37.5°	5831.5	4334.5	1569.9	1149.6	1087.1	1066.3	1059.3	1052.4	1042.0	1042.0	1042.0
40°	6078.1	4285.9	1392.7	1090.6	1045.4	1021.1	1000.3	993.3	993.3	996.8	1000.3
42.5°	6567.8	4365.8	1271.2	1045.4	993.3	965.5	944.7	948.2	958.6	969.0	962.1
45°	7276.3	4608.9	1215.6	1010.7	962.1	923.9	910.0	906.5	916.9	934.3	948.2
47.5°	8203.6	4987.5	1194.8	979.4	941.2	889.1	871.8	882.2	896.1	920.4	910.0
50°	9721.4	5838.4	1212.1	951.7	910.0	871.8	850.9	840.5	850.9	868.3	875.2
52.5°	11704.6	7384.0	1278.1	937.8	889.1	857.9	823.1	805.8	816.2	830.1	830.1
55°	14076.8	9495.7	1462.2	920.4	854.4	837.0	798.8	764.1	771.0	771.0	767.6
57.5°	16167.6	11089.9	1681.0	896.1	833.6	809.3	760.6	718.9	712.0	715.5	718.9
60°	17105.4	11513.6	1785.2	889.1	833.6	774.5	708.5	666.8	656.4	649.5	649.5
62.5°	16942.2	10780.7	1573.3	857.9	854.4	746.7	659.9	614.8	600.9	587.0	590.4
65°	15955.8	9735.3	1239.9	816.2	857.9	729.4	611.3	566.1	541.8	524.4	521.0
67.5°	14153.2	8311.3	982.9	784.9	823.1	698.1	569.6	517.5	496.7	479.3	472.4
70°	11072.5	6515.7	854.4	743.3	739.8	621.7	521.0	475.8	444.6	423.7	423.7
72.5°	7179.1	4119.2	732.8	659.9	639.1	521.0	451.5	423.7	399.4	382.0	382.0
75°	3250.9	1913.7	590.4	552.2	521.0	416.8	382.0	368.2	347.3	330.0	330.0
77.5°	1167.0	816.2	441.1	434.1	389.0	323.0	309.1	298.7	284.8	267.4	267.4
80°	653.0	517.5	330.0	316.1	270.9	239.6	222.3	222.3	215.3	204.9	201.4
82.5°	413.3	336.9	243.1	211.9	177.1	159.8	152.8	149.3	145.9	132.0	128.5
85°	260.5	229.2	159.8	125.0	104.2	79.9	76.4	72.9	66.0	59.0	59.0
87.5°	118.1	132.0	62.5	38.2	27.8	17.4	10.4	3.5	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)