

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: P476548

Luminaire Tested: **IFLD-L-SA8A-730-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476548  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

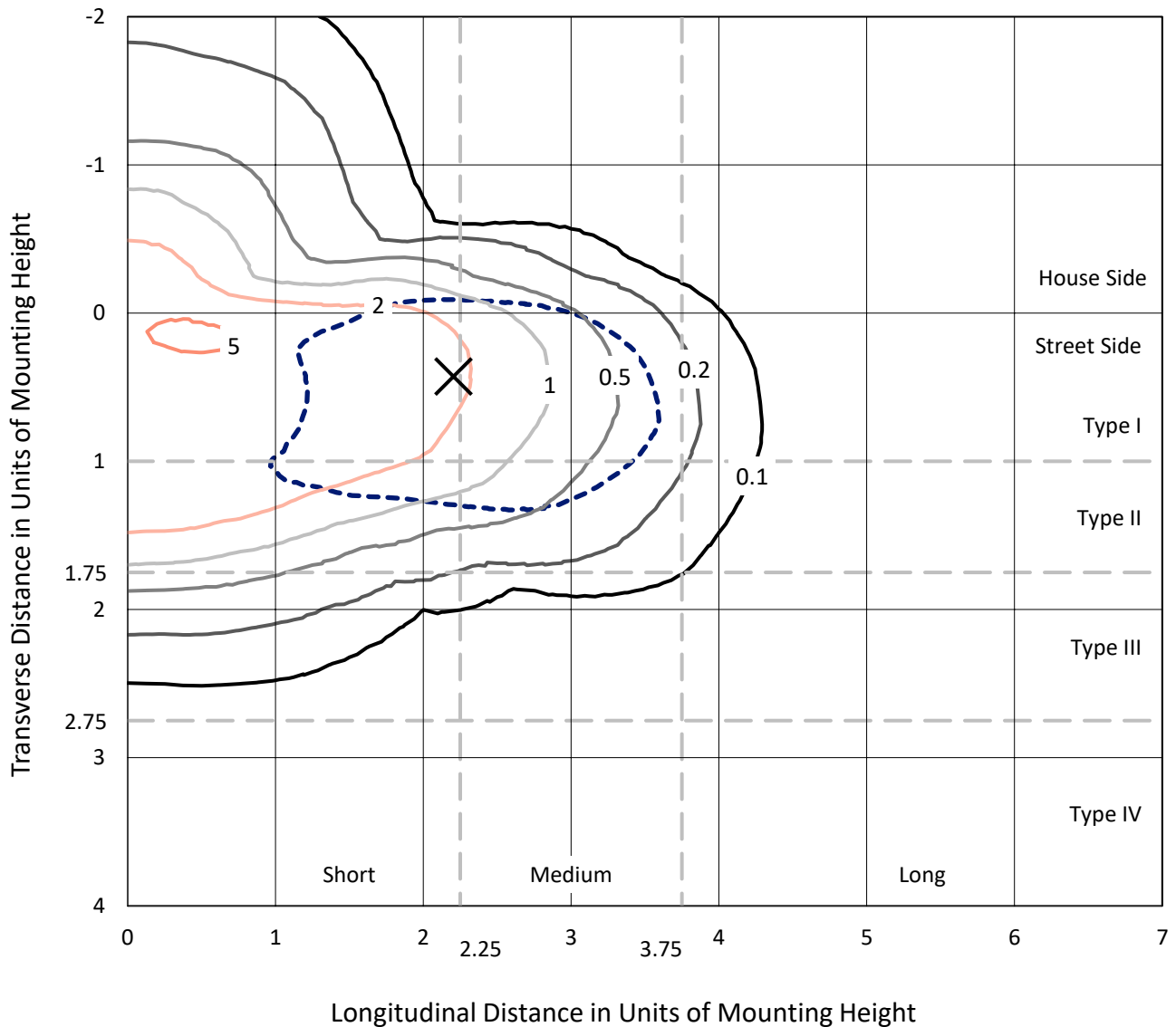
Lumens per Lamp: N/A  
Luminaire Lumens: 31156.1 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

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

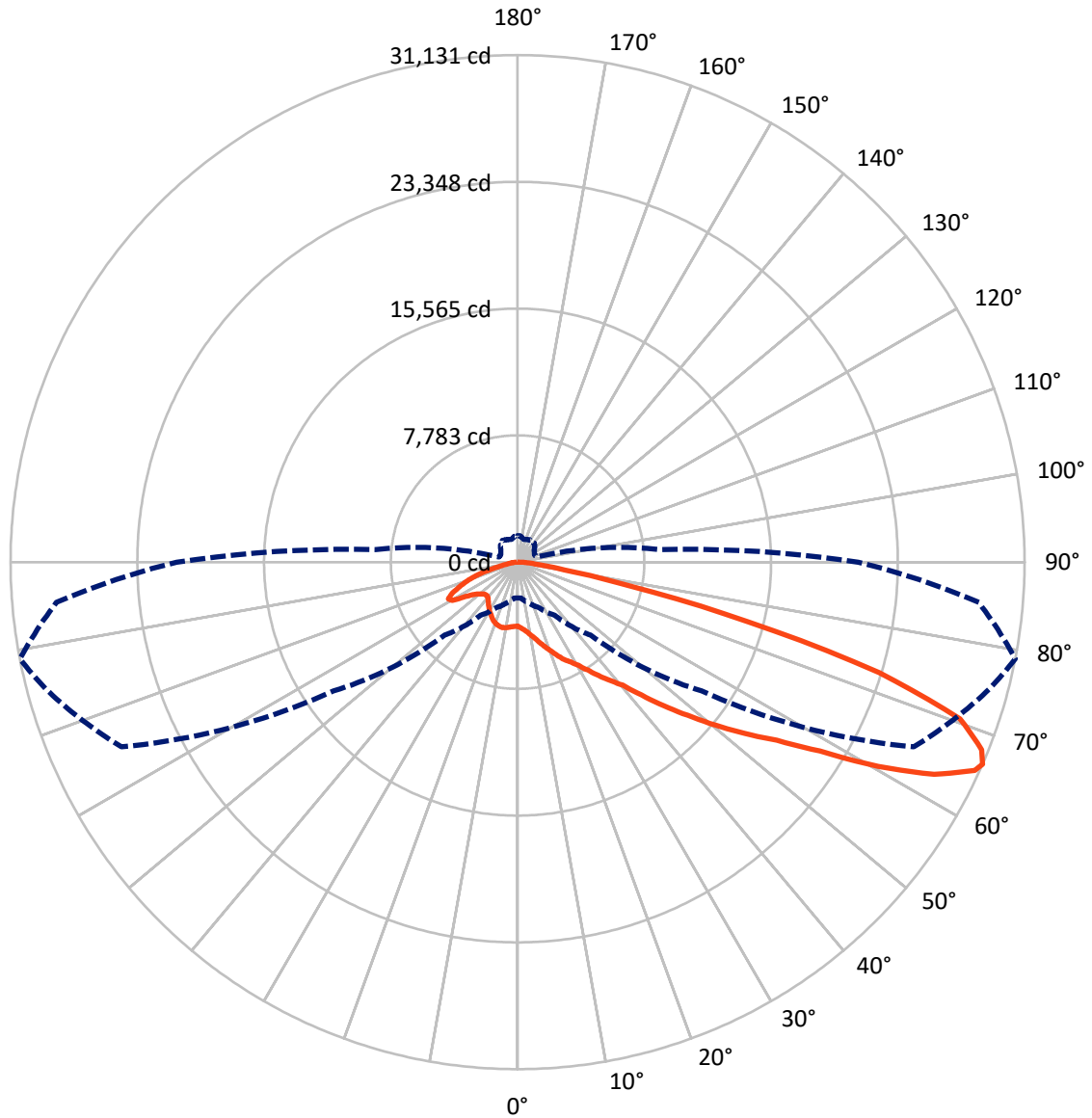
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6291.5	0.0	6291.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	24864.6	0.0	24864.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	31156.1	0.0	31156.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.8	1.2
10°-20°	1194.6	3.8
20°-30°	2050.5	6.6
30°-40°	3167.6	10.2
40°-50°	5073.7	16.3
50°-60°	7575.4	24.3
60°-70°	7783.7	25.0
70°-80°	3450.4	11.1
80°-90°	473.4	1.5
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°	31156.1	100.0
0°-180°	31156.1	100.0

**Coefficient of Utilization**



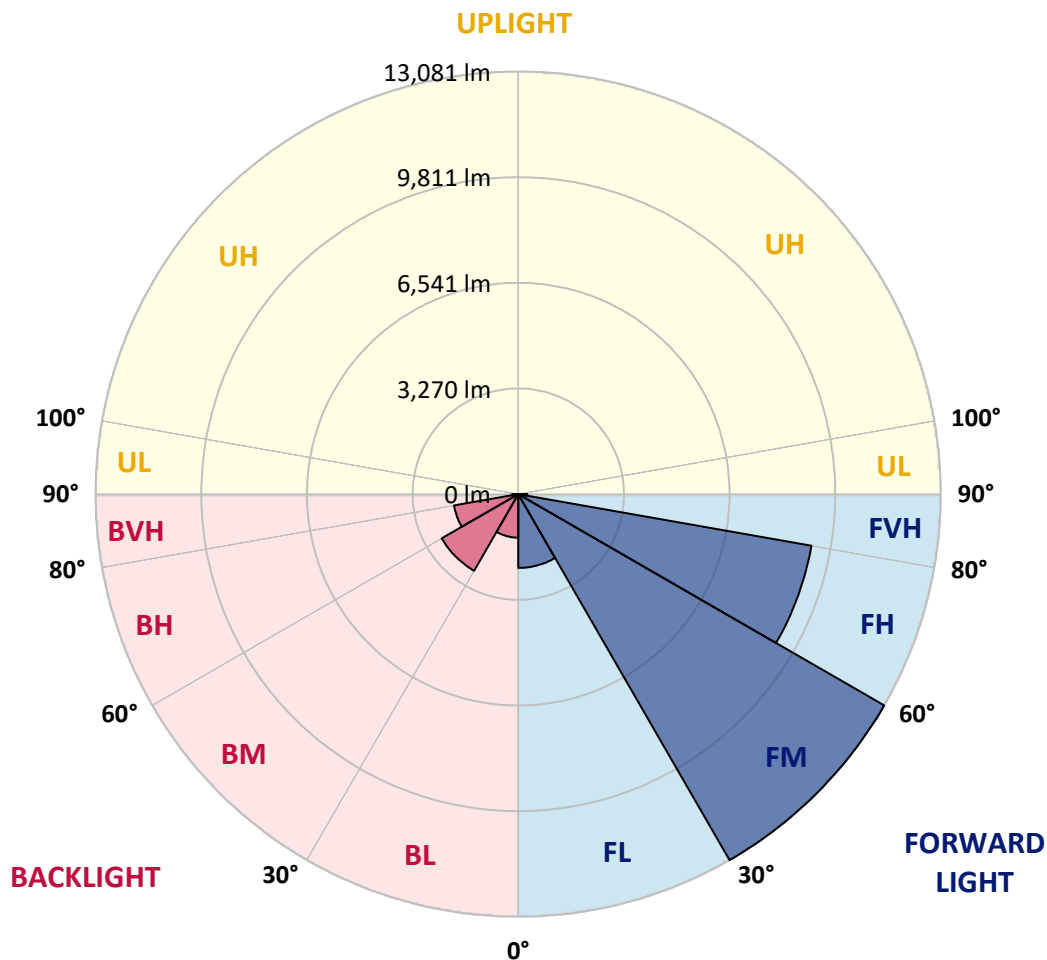
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2283.9	7.3			
FM (30°-60°)	13081.4	42.0			
FH (60°-80°)	9215.3	29.6			G4/12000
FVH (80°-90°)	283.9	0.9			G3/500
BL (0°-30°)	1348.0	4.3	B3/2500		
BM (30°-60°)	2735.3	8.8	B3/5000		
BH (60°-80°)	2018.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	189.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1
2.5°	4184.3	4187.7	4187.7	4174.0	4177.5	4187.7	4150.0	4067.8	4067.8	4054.1	4030.1
5°	4441.3	4424.2	4400.2	4403.6	4389.9	4389.9	4348.8	4270.0	4201.5	4174.0	4102.1
7.5°	4475.6	4492.7	4489.3	4530.4	4551.0	4551.0	4571.6	4506.5	4403.6	4338.5	4266.6
10°	4544.1	4499.6	4496.2	4592.1	4623.0	4694.9	4777.2	4742.9	4657.2	4564.7	4468.8
12.5°	4585.3	4612.7	4612.7	4660.7	4732.6	4838.9	4982.8	5047.9	4914.3	4818.3	4670.9
15°	4647.0	4609.3	4718.9	4760.0	4897.1	4972.5	5178.1	5346.1	5257.0	5140.4	4907.4
17.5°	4674.4	4650.4	4712.1	4787.5	5020.5	5133.6	5383.8	5616.8	5541.4	5466.0	5226.1
20°	4814.9	4811.5	4838.9	4900.6	5068.5	5291.2	5603.1	5925.2	5952.6	5815.5	5490.0
22.5°	5157.6	5113.0	5113.0	5089.0	5161.0	5390.6	5812.1	6257.6	6381.0	6219.9	5788.1
25°	5472.9	5534.5	5496.8	5387.2	5359.8	5479.7	5962.9	6610.6	6775.1	6624.3	6192.5
27.5°	5877.2	5897.8	5962.9	5815.5	5627.1	5664.8	6127.4	6809.4	7148.6	6946.4	6422.1
30°	6459.8	6422.1	6408.4	6243.9	5997.2	5945.8	6315.9	7100.7	7638.7	7354.3	6692.9
32.5°	6853.9	6946.4	6943.0	6716.8	6418.7	6305.6	6548.9	7374.8	8163.0	7899.1	7193.2
35°	7635.3	7731.2	7655.8	7323.4	6973.9	6747.7	6884.8	7731.2	8762.7	8557.1	7618.1
37.5°	8632.5	8858.7	8697.6	8084.2	7590.7	7344.0	7350.8	8118.5	9376.2	9208.2	8073.9
40°	9321.3	9626.3	9403.6	8827.8	8303.5	8070.5	7978.0	8577.7	10109.5	9931.3	8786.7
42.5°	10174.6	10428.2	10311.7	9742.8	9129.4	8930.7	8745.6	9345.3	11230.1	11147.9	9701.7
45°	11106.8	11226.7	11189.0	10829.2	10147.2	10078.7	9670.9	10356.3	12549.5	12583.8	10846.3
47.5°	11973.8	12038.9	12110.9	11850.4	11425.5	11483.7	10736.7	11439.2	13831.2	14057.4	12121.2
50°	12196.5	12419.3	12587.2	12762.0	12854.5	13248.6	11912.1	12768.8	15304.8	15743.5	13539.9
52.5°	11970.4	11953.2	12463.9	13012.2	13937.4	14763.3	13512.5	14420.6	16607.0	17474.1	14838.7
55°	10942.3	10908.0	11730.5	12457.0	14263.0	15606.4	15798.3	16620.8	18180.0	19307.5	16596.8
57.5°	9143.1	8930.7	9828.5	11021.1	13557.1	15698.9	18094.3	19886.6	20599.5	21884.6	19280.1
60°	6144.5	6055.4	6915.6	8337.8	11007.4	14386.4	19468.6	23975.0	24009.3	25455.5	23443.8
62.5°	3783.4	3800.5	4352.2	5418.0	7707.2	11404.9	18875.7	27240.9	27247.8	28697.4	26870.8
65°	2474.3	2484.5	2930.1	3519.5	4814.9	7734.6	15609.8	27497.9	29499.3	30846.1	28440.3
66°	2203.5	2207.0	2590.8	3070.6	3989.0	6329.6	13786.7	26829.7	30006.5	31130.5	28419.8
67.5°	1857.4	1902.0	2210.4	2580.5	3111.7	4547.6	10938.9	24896.9	29746.0	30733.0	27775.5
70°	1453.0	1477.0	1720.3	2097.3	2333.8	2631.9	6500.9	20294.5	27227.2	28827.6	25431.5
72.5°	1165.2	1185.7	1370.8	1703.2	1895.1	1734.0	3540.0	14725.6	21507.6	23214.2	20003.2
75°	983.5	987.0	1076.1	1339.9	1559.3	1302.2	1884.8	9451.6	13800.4	14595.4	12254.8
77.5°	795.1	808.8	870.4	1021.2	1254.3	1024.7	1124.0	5294.7	6929.3	6987.6	5664.8
80°	647.7	654.5	692.2	743.7	956.1	757.4	760.8	2583.9	2971.2	2902.6	2302.9
82.5°	510.6	517.5	562.0	551.7	702.5	541.5	472.9	1244.0	1367.4	1339.9	1058.9
85°	287.9	287.9	442.1	442.1	445.5	342.7	287.9	586.0	723.1	675.1	496.9
87.5°	92.5	96.0	133.7	140.5	222.8	154.2	140.5	219.3	342.7	301.6	178.2
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°	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1	3934.1
2.5°	4016.4	3961.6	3937.6	3858.8	3838.2	3786.8	3762.8	3732.0	3721.7	3677.1	3718.3
5°	4047.2	4030.1	3934.1	3834.8	3759.4	3725.1	3673.7	3605.2	3598.3	3536.6	3529.8
7.5°	4177.5	4119.2	3951.3	3845.0	3694.3	3608.6	3495.5	3461.2	3416.7	3396.1	3440.7
10°	4379.7	4232.3	3982.1	3714.8	3529.8	3427.0	3344.7	3320.7	3324.2	3310.4	3289.9
12.5°	4523.6	4383.1	3930.7	3605.2	3365.3	3265.9	3259.0	3283.0	3320.7	3303.6	3327.6
15°	4729.2	4465.3	3893.0	3423.5	3231.6	3204.2	3200.8	3272.7	3269.3	3269.3	3265.9
17.5°	4921.1	4547.6	3755.9	3265.9	3091.1	3111.7	3135.7	3132.2	3166.5	3180.2	3204.2
20°	5164.4	4643.5	3564.0	3108.3	2984.9	2978.0	2974.6	2978.0	3012.3	3032.9	3015.7
22.5°	5376.9	4664.1	3403.0	2957.5	2858.1	2830.7	2786.1	2830.7	2813.5	2820.4	2840.9
25°	5562.0	4667.5	3173.4	2844.4	2731.3	2669.6	2635.3	2631.9	2601.1	2597.6	2597.6
27.5°	5716.2	4551.0	2971.2	2686.7	2580.5	2522.2	2518.8	2481.1	2402.3	2350.9	2357.7
30°	5836.1	4461.9	2830.7	2549.7	2446.8	2436.6	2405.7	2320.1	2217.2	2152.1	2152.1
32.5°	6048.6	4283.7	2638.8	2409.2	2357.7	2344.0	2272.1	2196.7	2100.7	2039.0	2028.8
35°	6206.2	4119.2	2512.0	2289.2	2265.2	2237.8	2176.1	2093.9	2066.5	2052.7	2063.0
37.5°	6384.4	3934.1	2357.7	2186.4	2210.4	2159.0	2087.0	2049.3	2145.3	2121.3	2131.6
40°	6668.9	3803.9	2207.0	2124.7	2148.7	2090.4	1997.9	1984.2	2104.2	2018.5	1997.9
42.5°	7189.8	3800.5	2114.4	2032.2	2049.3	2004.8	1922.5	1915.7	1963.6	1860.8	1830.0
45°	7837.5	3920.4	2045.9	1963.6	1949.9	1943.1	1915.7	1884.8	1843.7	1710.1	1675.8
47.5°	8611.9	4115.8	2032.2	1860.8	1878.0	1936.2	1902.0	1823.1	1716.9	1631.2	1614.1
50°	9550.9	4520.2	1997.9	1785.4	1816.3	1908.8	1881.4	1771.7	1675.8	1621.0	1610.7
52.5°	10589.3	5030.8	1953.4	1668.9	1737.5	1884.8	1898.5	1795.7	1655.2	1607.2	1600.4
55°	11812.7	5784.7	1902.0	1542.1	1644.9	1860.8	1898.5	1727.2	1627.8	1627.8	1621.0
57.5°	14228.7	7141.8	1795.7	1425.6	1562.7	1816.3	1843.7	1730.6	1631.2	1631.2	1617.5
60°	17772.2	9259.6	1593.5	1336.5	1483.9	1754.6	1802.6	1679.2	1593.5	1614.1	1610.7
62.5°	20544.6	9903.9	1422.2	1250.8	1405.1	1641.5	1747.7	1624.4	1549.0	1624.4	1631.2
65°	21137.5	9252.8	1247.4	1158.3	1295.4	1531.9	1668.9	1545.6	1483.9	1631.2	1638.1
66°	20925.0	8745.6	1185.7	1130.9	1247.4	1477.0	1621.0	1518.1	1449.6	1624.4	1627.8
67.5°	19979.2	7984.8	1117.2	1072.6	1182.3	1398.2	1566.1	1480.4	1394.8	1603.8	1573.0
70°	17923.0	6771.7	1000.7	969.8	1089.8	1268.0	1439.3	1384.5	1309.1	1477.0	1422.2
72.5°	13803.8	5411.2	877.3	880.7	983.5	1134.3	1312.5	1274.8	1209.7	1295.4	1261.1
75°	8406.3	3457.8	764.2	771.1	856.7	1007.5	1192.6	1165.2	1086.3	1134.3	1117.2
77.5°	3725.1	1713.5	644.3	658.0	726.5	887.6	1038.4	993.8	911.6	921.9	915.0
80°	1446.2	812.2	524.3	541.5	586.0	709.4	860.2	819.0	747.1	733.4	726.5
82.5°	695.7	452.4	404.4	411.2	428.4	565.4	740.2	688.8	592.9	531.2	531.2
85°	349.5	281.0	284.4	260.4	284.4	383.8	500.3	418.1	346.1	308.4	315.3
87.5°	140.5	140.5	140.5	119.9	126.8	181.6	233.0	157.6	143.9	85.7	85.7
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)