

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: P477013

Luminaire Tested: **IFLD-L-SA7C-740-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477013  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-740-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

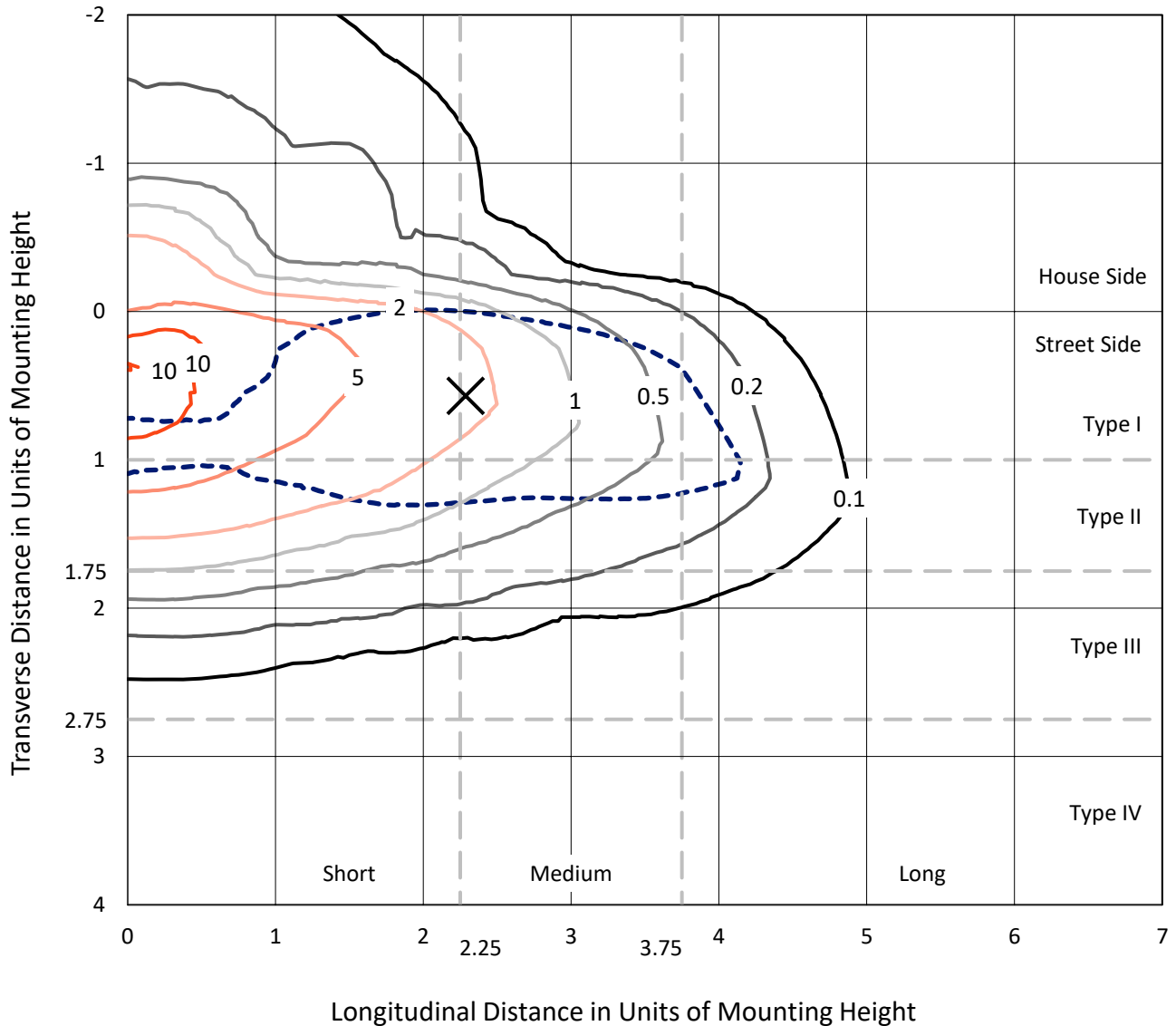
Lumens per Lamp: N/A  
Luminaire Lumens: 44580 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 369  
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

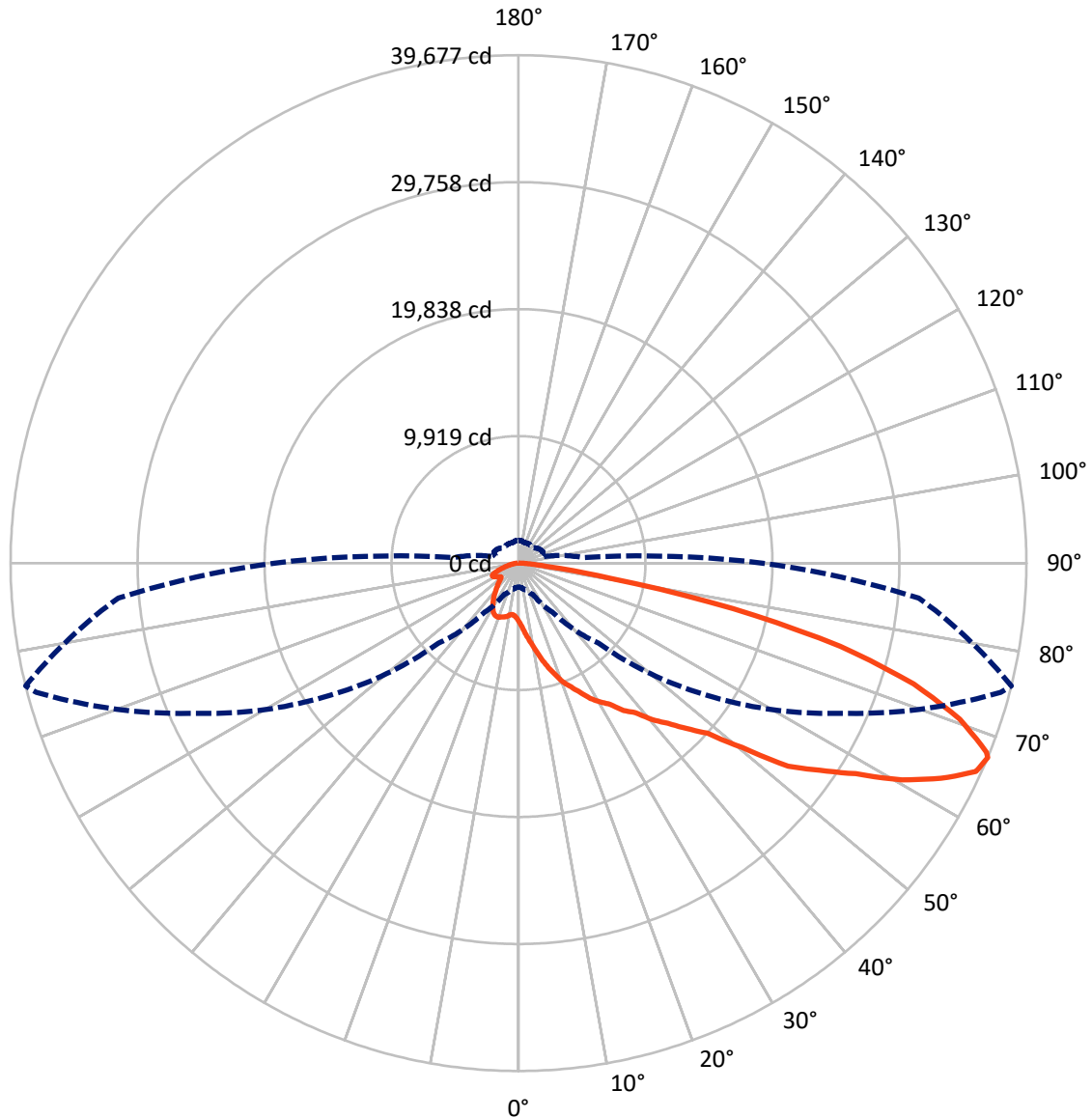
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 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	6342.1	0.0	6342.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	38237.9	0.0	38237.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	44580.0	0.0	44580.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.4	1.2
10°-20°	1982.0	4.4
20°-30°	3684.8	8.3
30°-40°	5841.2	13.1
40°-50°	8078.8	18.1
50°-60°	9937.5	22.3
60°-70°	9247.3	20.7
70°-80°	4640.2	10.4
80°-90°	639.8	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°	44580.0	100.0
0°-180°	44580.0	100.0

**Coefficient of Utilization**



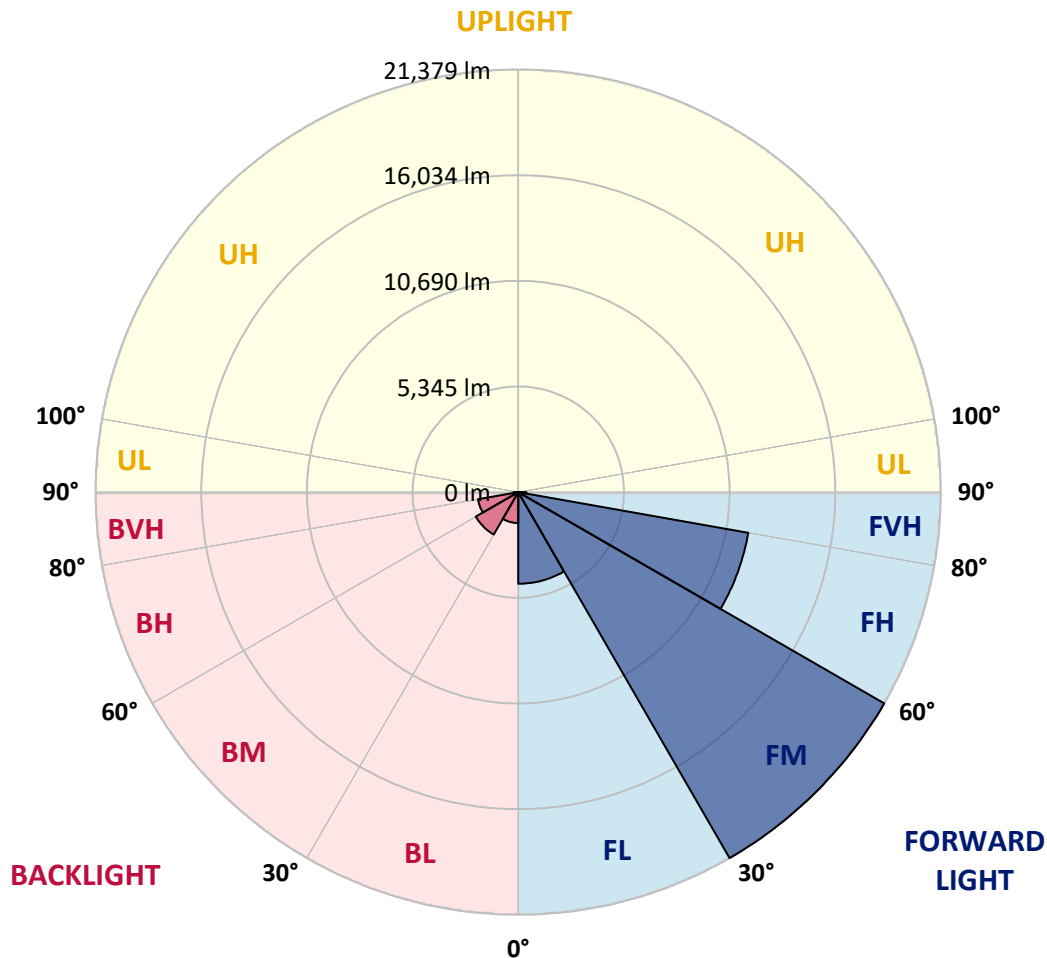
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4633.4	10.4			
FM (30°-60°)	21379.1	48.0			
FH (60°-80°)	11817.8	26.5			G4/12000
FVH (80°-90°)	407.6	0.9			G3/500
BL (0°-30°)	1561.8	3.5	B3/2500		
BM (30°-60°)	2478.4	5.6	B2/2500		
BH (60°-80°)	2069.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	232.2	0.5			G3/500
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1
2.5°	6330.0	6253.8	6177.6	6015.0	5959.2	5806.7	5527.3	5217.4	4963.4	4927.9	4750.1
5°	7854.1	7742.3	7716.9	7625.5	7335.9	7041.3	6584.0	6086.2	5466.4	5512.1	4902.5
7.5°	8997.2	8931.1	8793.9	8707.6	8534.9	8143.7	7671.2	7010.8	6223.3	6070.9	5242.8
10°	9860.8	9769.4	9764.3	9688.1	9596.6	9195.3	8834.6	7945.5	6934.6	6726.3	5659.4
12.5°	10297.7	10282.5	10551.7	10551.7	10516.2	10348.5	9728.7	8915.9	7610.2	7539.1	6142.0
15°	10770.2	10643.2	10876.9	11054.7	11146.1	11232.5	10719.4	9860.8	8473.9	8336.7	6660.2
17.5°	10770.2	10760.0	10993.7	11288.4	11765.9	11877.7	11598.3	10729.5	9190.2	9088.6	7229.2
20°	10587.3	10734.6	10897.2	11293.4	11811.6	12263.8	12345.1	11618.6	9982.7	9901.4	7874.4
22.5°	11440.8	11298.5	11466.2	11618.6	12019.9	12705.8	12929.3	12400.9	10815.9	10506.0	8458.6
25°	12873.4	12776.9	12655.0	12431.4	12599.1	12898.8	13239.2	12980.1	11527.1	11181.7	9022.6
27.5°	14270.5	14275.6	14011.4	13523.7	13163.0	13223.9	13625.3	13488.1	12126.6	11974.2	9408.7
30°	16256.9	16134.9	15840.3	15179.8	14473.7	13894.5	13828.5	13960.6	12888.6	12594.0	9962.4
32.5°	17745.4	17770.8	17354.2	16404.2	15438.9	14966.5	14387.3	14443.2	13371.3	13152.8	10404.4
35°	18949.4	18918.9	18624.3	17836.8	16693.8	16124.8	15342.4	15022.4	14494.0	14148.6	11080.1
37.5°	20250.0	20001.0	19523.5	18634.4	17902.9	17115.4	16353.4	15632.0	15240.8	14824.2	11659.2
40°	20773.2	20773.2	20133.1	19726.7	18858.0	18263.6	17770.8	16434.7	16150.2	16068.9	12400.9
42.5°	20402.4	20631.0	20366.8	19904.5	19548.9	18797.0	18664.9	17267.8	17272.9	17110.3	13290.0
45°	20366.8	20051.8	19833.4	19950.2	19782.6	19741.9	20077.2	18421.1	18451.5	18431.2	14483.8
47.5°	19345.7	19203.4	19528.6	19721.6	19858.8	20488.7	21454.0	19797.8	20016.3	19863.9	15860.6
50°	18329.6	18304.2	18507.4	19208.5	19802.9	20839.3	22764.7	21921.4	22637.7	22627.5	18355.0
52.5°	15545.6	15814.9	16612.5	18095.9	19564.1	21316.8	23755.3	24634.2	26000.8	26371.7	20422.7
55°	12883.6	12741.3	13919.9	16074.0	18522.7	21504.8	24862.8	26265.0	28276.8	28546.0	22546.2
57.5°	10023.4	10287.5	11217.2	13284.9	16368.6	20575.1	25675.7	27875.4	30847.4	31055.7	25010.2
60°	7478.2	7513.7	8534.9	10201.2	13503.4	18476.9	25939.9	29526.5	33794.0	34388.3	27590.9
62.5°	4704.3	4917.7	5695.0	7335.9	10165.6	15540.5	24756.2	30527.3	36882.8	37040.2	30192.0
65°	2535.1	2672.2	3256.5	4287.7	7102.2	11755.7	21616.5	29927.9	38335.7	39270.5	31350.3
67°	1874.6	1900.0	2169.3	2738.3	4750.1	8849.8	18024.8	27758.6	38996.1	39676.9	31396.1
67.5°	1757.8	1793.3	2006.7	2458.9	4211.5	8148.8	17084.9	26986.4	38701.5	39433.1	31040.4
70°	1503.8	1513.9	1564.7	1691.7	2362.3	4902.5	11633.8	22114.4	35871.8	36572.9	28546.0
72.5°	1336.1	1346.3	1366.6	1392.0	1600.3	2834.8	7076.8	17018.9	31177.6	32295.3	24629.1
75°	1173.5	1209.1	1219.3	1198.9	1361.5	1844.1	3764.5	12507.6	25431.8	25975.4	19152.6
77.5°	995.7	1011.0	1031.3	1051.6	1214.2	1376.8	1808.6	8443.4	17455.8	17125.6	10358.7
80°	838.2	843.3	858.6	873.8	1051.6	1051.6	1026.2	4562.1	7625.5	7290.2	3500.3
82.5°	599.5	635.0	670.6	711.2	873.8	706.2	670.6	2032.1	2413.1	2296.3	1183.7
85°	233.7	284.5	442.0	487.7	553.7	381.0	447.1	878.9	1005.9	995.7	442.0
87.5°	40.6	45.7	121.9	188.0	203.2	132.1	213.4	315.0	375.9	406.4	162.6
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°	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1	4562.1
2.5°	4602.7	4445.2	4257.3	4069.3	3947.4	3754.3	3739.1	3622.2	3607.0	3566.3	3586.7
5°	4638.3	4450.3	4069.3	3769.6	3632.4	3520.6	3546.0	3495.2	3480.0	3454.6	3413.9
7.5°	4917.7	4546.8	3977.9	3718.8	3617.2	3566.3	3566.3	3505.4	3459.7	3490.1	3520.6
10°	5100.6	4592.6	4049.0	3789.9	3708.6	3596.8	3637.5	3561.3	3586.7	3525.7	3525.7
12.5°	5395.2	4851.7	4196.3	3896.6	3764.5	3662.9	3703.5	3617.2	3596.8	3601.9	3586.7
15°	5791.5	5024.4	4262.3	3957.5	3866.1	3739.1	3708.6	3632.4	3556.2	3530.8	3561.3
17.5°	6162.4	5237.8	4308.1	3993.1	3845.8	3703.5	3668.0	3571.4	3546.0	3469.8	3408.9
20°	6604.4	5491.8	4369.0	4023.6	3769.6	3627.3	3535.9	3439.3	3353.0	3307.3	3327.6
22.5°	6899.0	5623.9	4399.5	3962.6	3657.8	3525.7	3332.7	3266.6	3144.7	3093.9	3053.2
25°	7381.6	5786.4	4323.3	3795.0	3459.7	3246.3	3073.6	2982.1	2895.8	2829.7	2809.4
27.5°	7503.6	5908.4	4145.5	3510.5	3144.7	2921.2	2773.8	2662.1	2606.2	2504.6	2484.3
30°	7859.2	5786.4	3881.3	3165.0	2845.0	2616.3	2469.0	2387.7	2255.6	2230.2	2174.4
32.5°	8087.8	5822.0	3546.0	2829.7	2499.5	2296.3	2199.8	2118.5	2082.9	1961.0	1930.5
35°	8468.8	5700.1	3205.6	2519.8	2215.0	2057.5	1976.2	1950.8	1834.0	1778.1	1727.3
37.5°	8712.7	5628.9	2865.3	2169.3	1905.1	1839.1	1864.5	1757.8	1615.5	1508.8	1473.3
40°	9139.4	5603.5	2479.2	1879.7	1691.7	1676.5	1757.8	1554.6	1295.5	1204.0	1153.2
42.5°	9754.1	5430.8	2179.4	1620.6	1524.1	1590.1	1605.4	1295.5	1148.1	1071.9	1036.4
45°	10343.4	5466.4	1884.8	1341.2	1326.0	1422.5	1386.9	1097.3	1011.0	955.1	985.6
47.5°	11476.3	5644.2	1595.2	1117.7	1193.9	1285.3	1077.0	980.5	899.2	858.6	863.6
50°	13229.0	5816.9	1341.2	1021.1	1127.8	1163.4	924.6	889.0	884.0	802.7	797.6
52.5°	14280.6	5750.9	1295.5	1143.1	1209.1	1163.4	1005.9	980.5	939.8	904.3	863.6
55°	15952.0	5943.9	1392.0	1336.1	1371.7	1117.7	1127.8	1117.7	1087.2	995.7	1021.1
57.5°	17283.1	6070.9	1519.0	1493.6	1473.3	1163.4	1178.6	1183.7	1163.4	1122.7	1158.3
60°	19112.0	6324.9	1651.1	1656.2	1661.2	1265.0	1290.4	1320.9	1315.8	1300.5	1310.7
62.5°	20234.7	6208.1	1798.4	1879.7	1854.3	1473.3	1468.2	1488.5	1488.5	1513.9	1529.2
65°	20067.1	5776.3	1874.6	2077.8	1945.7	1625.7	1625.7	1635.8	1640.9	1691.7	1696.8
67°	19061.2	5004.1	1834.0	2108.3	1945.7	1686.6	1686.6	1696.8	1661.2	1793.3	1752.7
67.5°	18593.8	4775.5	1798.4	2082.9	1930.5	1681.6	1681.6	1686.6	1656.2	1783.2	1742.5
70°	16170.5	3546.0	1549.5	1844.1	1788.3	1635.8	1635.8	1605.4	1580.0	1747.6	1712.1
72.5°	13803.1	2575.7	1244.7	1569.8	1615.5	1574.9	1585.0	1508.8	1437.7	1554.6	1524.1
75°	10572.0	1894.9	970.3	1209.1	1366.6	1473.3	1539.3	1346.3	1254.8	1285.3	1229.4
77.5°	5898.2	1234.5	767.1	894.1	1041.5	1371.7	1478.4	1214.2	1026.2	990.7	990.7
80°	2001.6	721.4	563.9	665.5	716.3	1214.2	1381.8	985.6	807.8	772.2	746.8
82.5°	757.0	442.0	386.1	457.2	457.2	960.2	1127.8	757.0	609.6	787.4	802.7
85°	345.5	264.2	254.0	264.2	264.2	589.3	797.6	492.8	548.7	472.5	416.6
87.5°	137.2	127.0	116.8	111.8	91.4	101.6	274.3	132.1	248.9	66.0	61.0
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)