

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: P476859

Luminaire Tested: **IFLD-L-SA7E-722-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476859  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-722-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

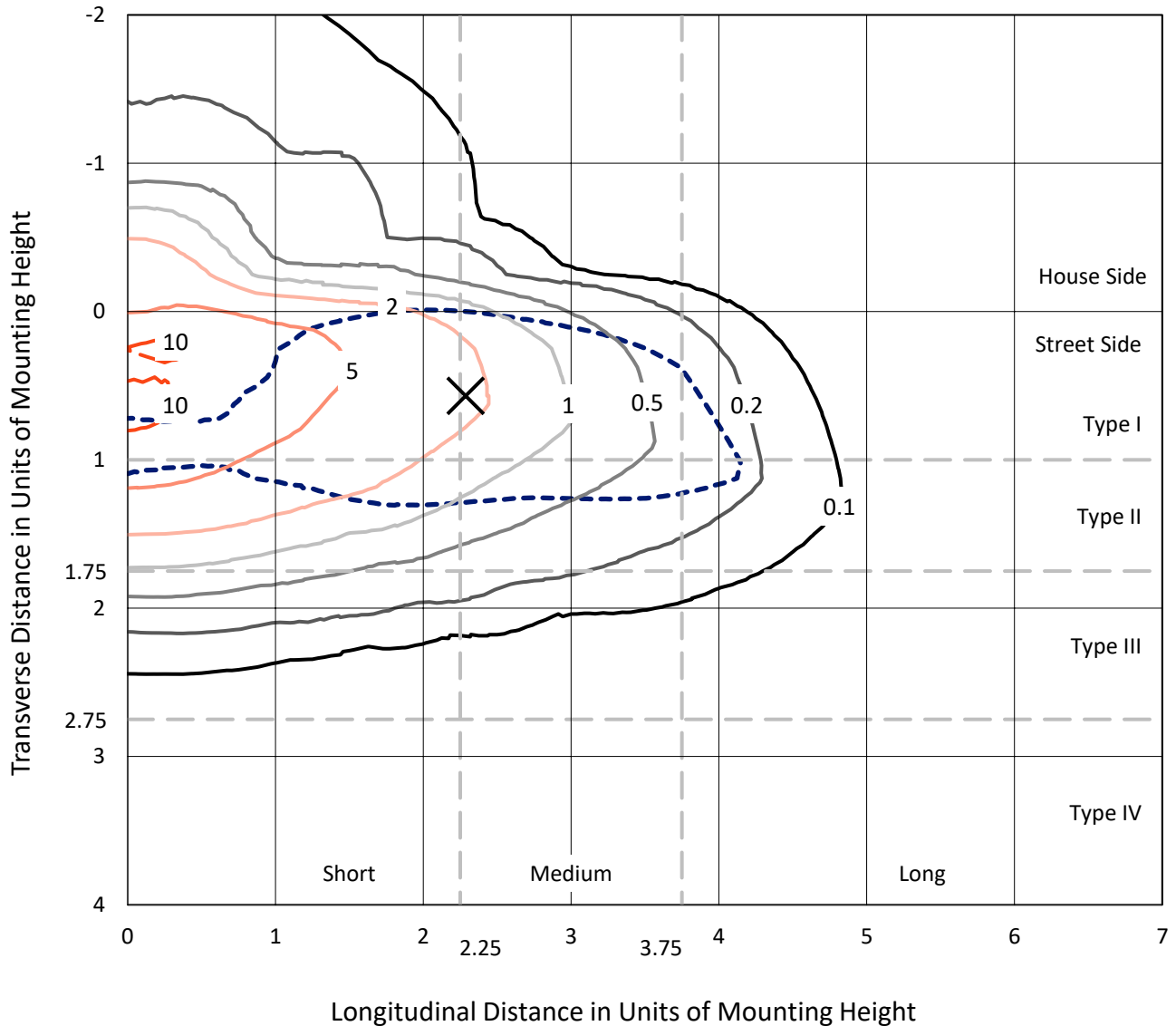
Lumens per Lamp: N/A  
Luminaire Lumens: 41815.8 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 532.7  
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

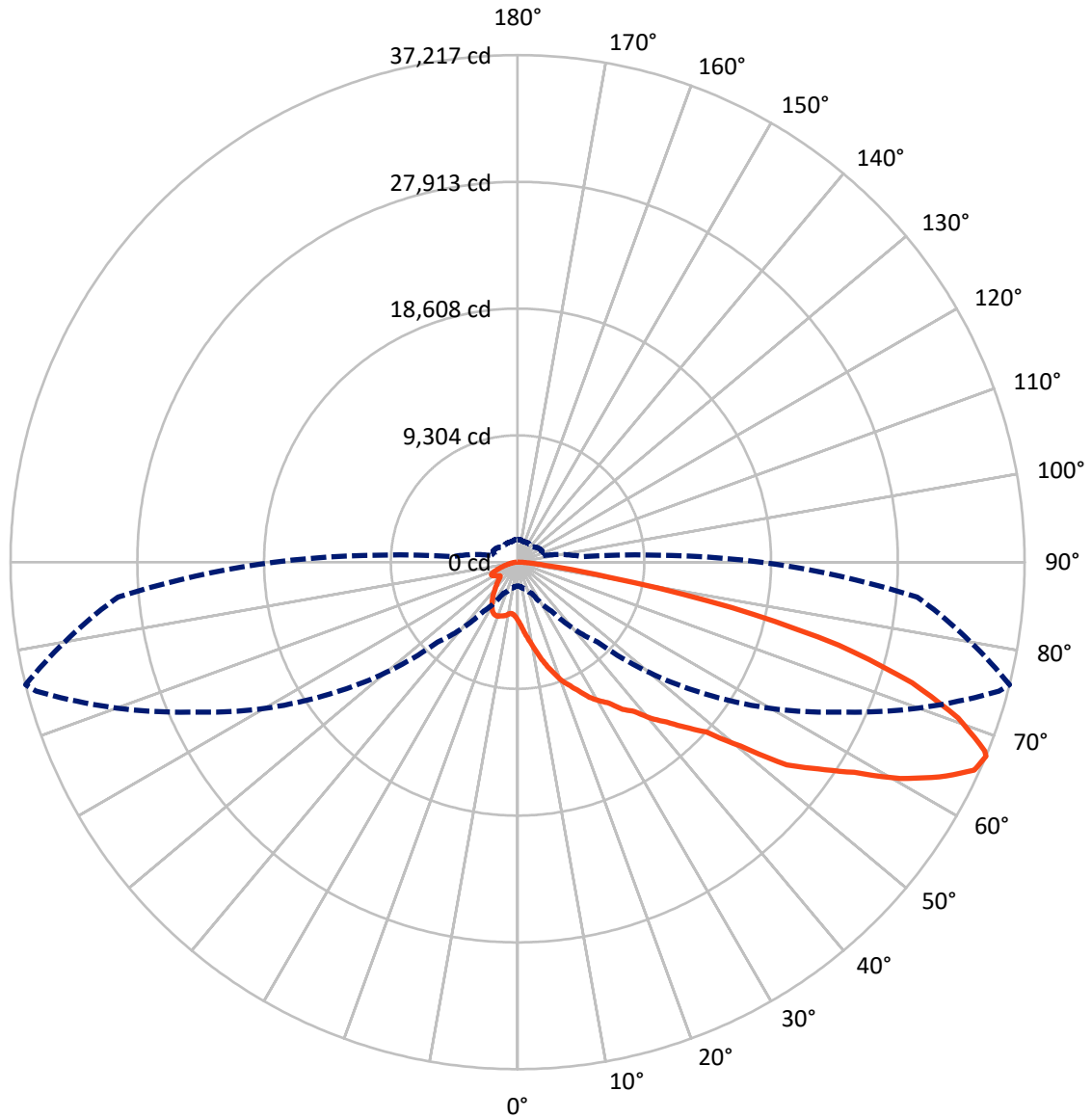
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 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	5948.8	0.0	5948.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	35867.0	0.0	35867.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	41815.8	0.0	41815.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	495.7	1.2
10°-20°	1859.1	4.4
20°-30°	3456.3	8.3
30°-40°	5479.0	13.1
40°-50°	7577.9	18.1
50°-60°	9321.3	22.3
60°-70°	8673.9	20.7
70°-80°	4352.5	10.4
80°-90°	600.1	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°	41815.8	100.0
0°-180°	41815.8	100.0

**Coefficient of Utilization**



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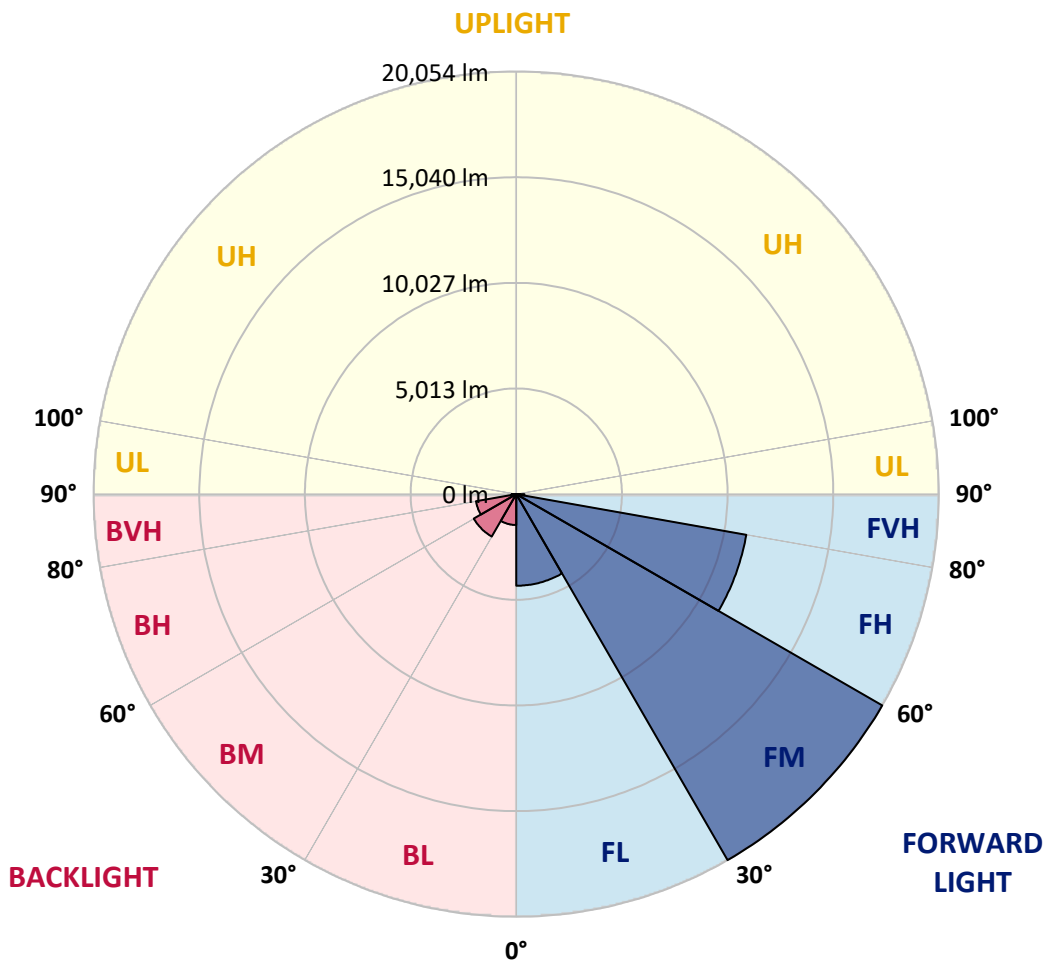
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4346.1	10.4			
FM (30°-60°)	20053.5	48.0			
FH (60°-80°)	11085.0	26.5			G4/12000
FVH (80°-90°)	382.4	0.9			G3/500
BL (0°-30°)	1465.0	3.5	B3/2500		
BM (30°-60°)	2324.7	5.6	B2/2500		
BH (60°-80°)	1941.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	217.8	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2
2.5°	5937.5	5866.0	5794.6	5642.1	5589.7	5446.7	5184.6	4893.9	4655.7	4622.3	4455.5
5°	7367.1	7262.3	7238.4	7152.7	6881.0	6604.7	6175.8	5708.8	5127.4	5170.3	4598.5
7.5°	8439.3	8377.3	8248.7	8167.7	8005.7	7638.7	7195.6	6576.1	5837.5	5694.5	4917.8
10°	9249.4	9163.6	9158.8	9087.4	9001.6	8625.1	8286.8	7452.9	6504.6	6309.2	5308.5
12.5°	9659.2	9644.9	9897.5	9897.5	9864.1	9706.9	9125.5	8363.0	7138.4	7071.7	5761.2
15°	10102.4	9983.2	10202.4	10369.2	10455.0	10536.0	10054.7	9249.4	7948.5	7819.8	6247.3
17.5°	10102.4	10092.8	10312.0	10588.4	11036.4	11141.2	10879.1	10064.2	8620.4	8525.1	6781.0
20°	9930.8	10069.0	10221.5	10593.2	11079.2	11503.4	11579.6	10898.2	9363.8	9287.5	7386.2
22.5°	10731.4	10598.0	10755.2	10898.2	11274.6	11917.9	12127.6	11632.0	10145.3	9854.6	7934.2
25°	12075.2	11984.6	11870.3	11660.6	11817.9	12099.0	12418.3	12175.3	10812.4	10488.4	8463.1
27.5°	13385.6	13390.4	13142.6	12685.1	12346.8	12404.0	12780.4	12651.8	11374.7	11231.7	8825.3
30°	15248.9	15134.5	14858.1	14238.6	13576.2	13033.0	12971.1	13095.0	12089.5	11813.1	9344.7
32.5°	16645.1	16668.9	16278.2	15387.1	14481.7	14038.5	13495.2	13547.7	12542.2	12337.3	9759.3
35°	17774.5	17745.9	17469.5	16730.9	15658.7	15125.0	14391.1	14090.9	13595.3	13271.3	10393.0
37.5°	18994.4	18760.9	18312.9	17479.0	16792.8	16054.2	15339.4	14662.7	14295.8	13905.1	10936.3
40°	19485.2	19485.2	18884.8	18503.5	17688.7	17131.1	16668.9	15415.6	15148.8	15072.5	11632.0
42.5°	19137.3	19351.8	19104.0	18670.3	18336.8	17631.5	17507.6	16197.1	16201.9	16049.4	12465.9
45°	19104.0	18808.5	18603.6	18713.2	18556.0	18517.8	18832.3	17278.9	17307.5	17288.4	13585.8
47.5°	18146.1	18012.7	18317.7	18498.8	18627.4	19218.3	20123.7	18570.3	18775.2	18632.2	14877.2
50°	17193.1	17169.3	17359.9	18017.5	18575.0	19547.1	21353.2	20562.1	21234.0	21224.5	17216.9
52.5°	14581.7	14834.3	15582.4	16973.9	18351.0	19995.1	22282.4	23106.8	24388.6	24736.5	19156.4
55°	12084.7	11951.3	13056.8	15077.3	17374.2	20171.4	23321.2	24636.4	26523.5	26776.0	21148.3
57.5°	9401.9	9649.7	10521.7	12461.2	15353.7	19299.3	24083.7	26147.0	28934.7	29130.1	23459.4
60°	7014.5	7047.8	8005.7	9568.7	12666.1	17331.3	24331.5	27695.7	31698.6	32256.1	25880.2
62.5°	4412.6	4612.8	5341.9	6881.0	9535.3	14577.0	23221.2	28634.5	34595.8	34743.6	28320.0
65°	2377.9	2506.5	3054.5	4021.9	6661.8	11026.8	20276.2	28072.2	35958.7	36835.5	29406.5
67°	1758.4	1782.2	2034.8	2568.5	4455.5	8301.1	16907.2	26037.4	36578.2	37216.7	29449.4
67.5°	1648.8	1682.1	1882.3	2306.4	3950.4	7643.5	16025.6	25313.1	36301.8	36988.0	29115.8
70°	1410.5	1420.0	1467.7	1586.8	2215.8	4598.5	10912.5	20743.2	33647.6	34305.2	26776.0
72.5°	1253.3	1262.8	1281.9	1305.7	1501.1	2659.0	6638.0	15963.6	29244.5	30292.8	23102.0
75°	1100.8	1134.1	1143.7	1124.6	1277.1	1729.8	3531.1	11732.1	23854.9	24364.8	17965.1
77.5°	934.0	948.3	967.3	986.4	1138.9	1291.4	1696.4	7919.9	16373.5	16063.7	9716.4
80°	786.3	791.0	805.3	819.6	986.4	986.4	962.6	4279.2	7152.7	6838.2	3283.3
82.5°	562.3	595.7	629.0	667.1	819.6	662.4	629.0	1906.1	2263.5	2153.9	1110.3
85°	219.2	266.9	414.6	457.5	519.4	357.4	419.3	824.4	943.5	934.0	414.6
87.5°	38.1	42.9	114.4	176.3	190.6	123.9	200.1	295.4	352.6	381.2	152.5
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°	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2	4279.2
2.5°	4317.3	4169.6	3993.3	3817.0	3702.6	3521.5	3507.2	3397.6	3383.3	3345.2	3364.3
5°	4350.7	4174.4	3817.0	3535.8	3407.2	3302.3	3326.2	3278.5	3264.2	3240.4	3202.3
7.5°	4612.8	4264.9	3731.2	3488.2	3392.9	3345.2	3345.2	3288.0	3245.1	3273.7	3302.3
10°	4784.3	4307.8	3797.9	3554.9	3478.6	3373.8	3411.9	3340.5	3364.3	3307.1	3307.1
12.5°	5060.7	4550.8	3936.1	3655.0	3531.1	3435.8	3473.9	3392.9	3373.8	3378.6	3364.3
15°	5432.4	4712.9	3998.1	3712.1	3626.4	3507.2	3478.6	3407.2	3335.7	3311.9	3340.5
17.5°	5780.3	4913.0	4040.9	3745.5	3607.3	3473.9	3440.5	3350.0	3326.2	3254.7	3197.5
20°	6194.8	5151.3	4098.1	3774.1	3535.8	3402.4	3316.6	3226.1	3145.1	3102.2	3121.3
22.5°	6471.2	5275.2	4126.7	3716.9	3431.0	3307.1	3126.0	3064.1	2949.7	2902.0	2863.9
25°	6923.9	5427.6	4055.2	3559.7	3245.1	3045.0	2883.0	2797.2	2716.2	2654.3	2635.2
27.5°	7038.3	5542.0	3888.5	3292.8	2949.7	2740.0	2601.8	2497.0	2444.6	2349.3	2330.2
30°	7371.9	5427.6	3640.7	2968.8	2668.6	2454.1	2315.9	2239.7	2115.8	2092.0	2039.5
32.5°	7586.3	5461.0	3326.2	2654.3	2344.5	2153.9	2063.4	1987.1	1953.8	1839.4	1810.8
35°	7943.7	5346.6	3006.9	2363.6	2077.7	1929.9	1853.7	1829.9	1720.3	1667.8	1620.2
37.5°	8172.4	5279.9	2687.6	2034.8	1787.0	1725.0	1748.9	1648.8	1515.4	1415.3	1381.9
40°	8572.7	5256.1	2325.5	1763.1	1586.8	1572.5	1648.8	1458.2	1215.1	1129.4	1081.7
42.5°	9149.3	5094.1	2044.3	1520.1	1429.6	1491.5	1505.8	1215.1	1077.0	1005.5	972.1
45°	9702.1	5127.4	1767.9	1258.0	1243.7	1334.3	1300.9	1029.3	948.3	895.9	924.5
47.5°	10764.7	5294.2	1496.3	1048.4	1119.8	1205.6	1010.2	919.7	843.5	805.3	810.1
50°	12408.8	5456.2	1258.0	957.8	1057.9	1091.2	867.3	833.9	829.2	752.9	748.1
52.5°	13395.2	5394.3	1215.1	1072.2	1134.1	1091.2	943.5	919.7	881.6	848.2	810.1
55°	14962.9	5575.4	1305.7	1253.3	1286.6	1048.4	1057.9	1048.4	1019.8	934.0	957.8
57.5°	16211.4	5694.5	1424.8	1401.0	1381.9	1091.2	1105.5	1110.3	1091.2	1053.1	1086.5
60°	17926.9	5932.8	1548.7	1553.5	1558.2	1186.6	1210.4	1239.0	1234.2	1219.9	1229.4
62.5°	18980.1	5823.2	1686.9	1763.1	1739.3	1381.9	1377.2	1396.2	1396.2	1420.0	1434.3
65°	18822.8	5418.1	1758.4	1949.0	1825.1	1524.9	1524.9	1534.4	1539.2	1586.8	1591.6
67°	17879.3	4693.8	1720.3	1977.6	1825.1	1582.1	1582.1	1591.6	1558.2	1682.1	1644.0
67.5°	17440.9	4479.4	1686.9	1953.8	1810.8	1577.3	1577.3	1582.1	1553.5	1672.6	1634.5
70°	15167.8	3326.2	1453.4	1729.8	1677.4	1534.4	1534.4	1505.8	1482.0	1639.3	1605.9
72.5°	12947.2	2416.0	1167.5	1472.5	1515.4	1477.2	1486.8	1415.3	1348.6	1458.2	1429.6
75°	9916.5	1777.4	910.2	1134.1	1281.9	1381.9	1443.9	1262.8	1177.0	1205.6	1153.2
77.5°	5532.5	1158.0	719.6	838.7	976.9	1286.6	1386.7	1138.9	962.6	929.2	929.2
80°	1877.5	676.7	528.9	624.3	671.9	1138.9	1296.2	924.5	757.7	724.3	700.5
82.5°	710.0	414.6	362.2	428.9	428.9	900.6	1057.9	710.0	571.8	738.6	752.9
85°	324.0	247.8	238.3	247.8	247.8	552.8	748.1	462.2	514.6	443.2	390.8
87.5°	128.7	119.1	109.6	104.8	85.8	95.3	257.3	123.9	233.5	61.9	57.2
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)