

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: P476978

Luminaire Tested: **IFLD-L-SA8B-735-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476978  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-735-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

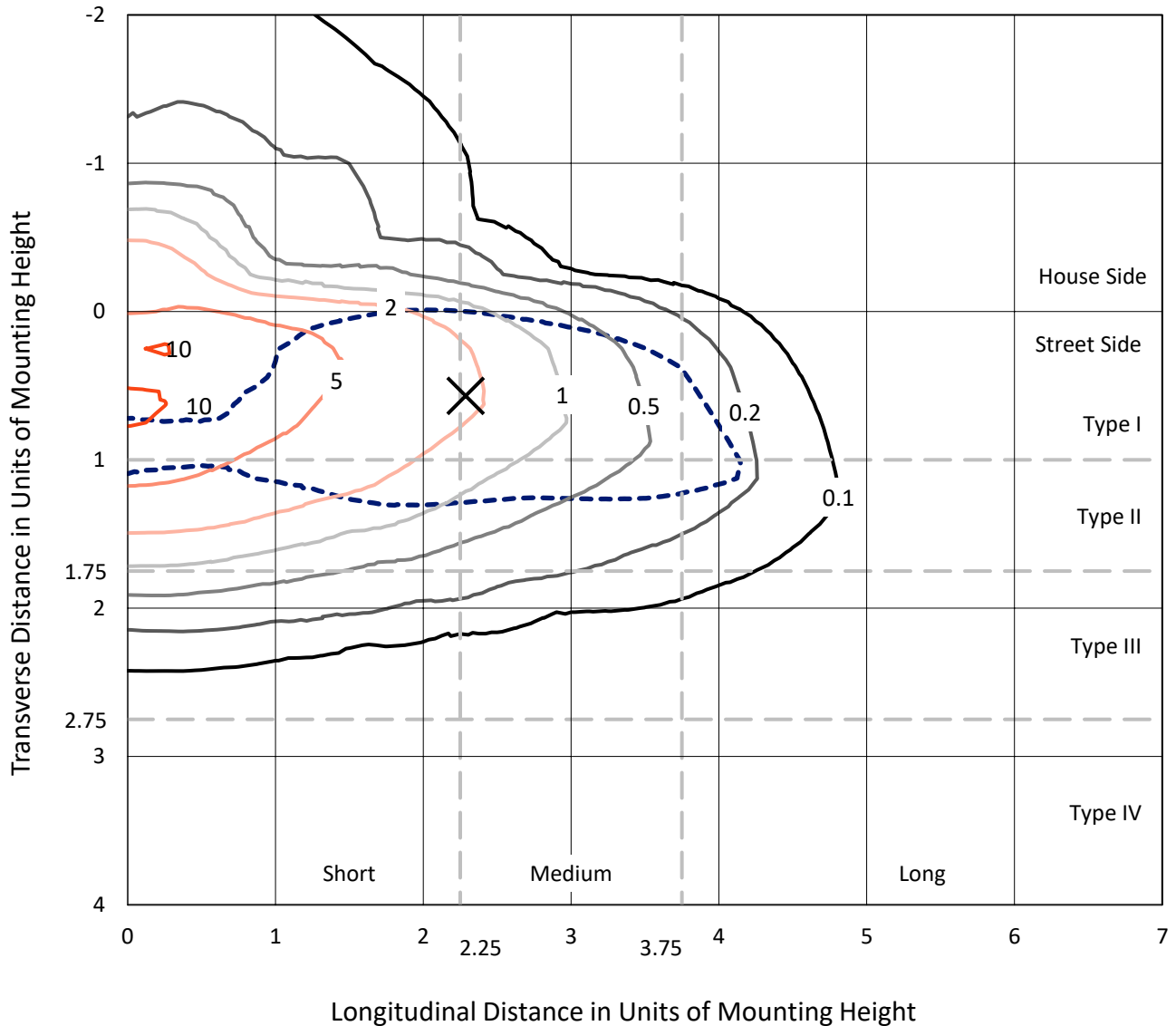
Lumens per Lamp: N/A  
Luminaire Lumens: 40366.6 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

REPORT NUMBER: P476978  
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

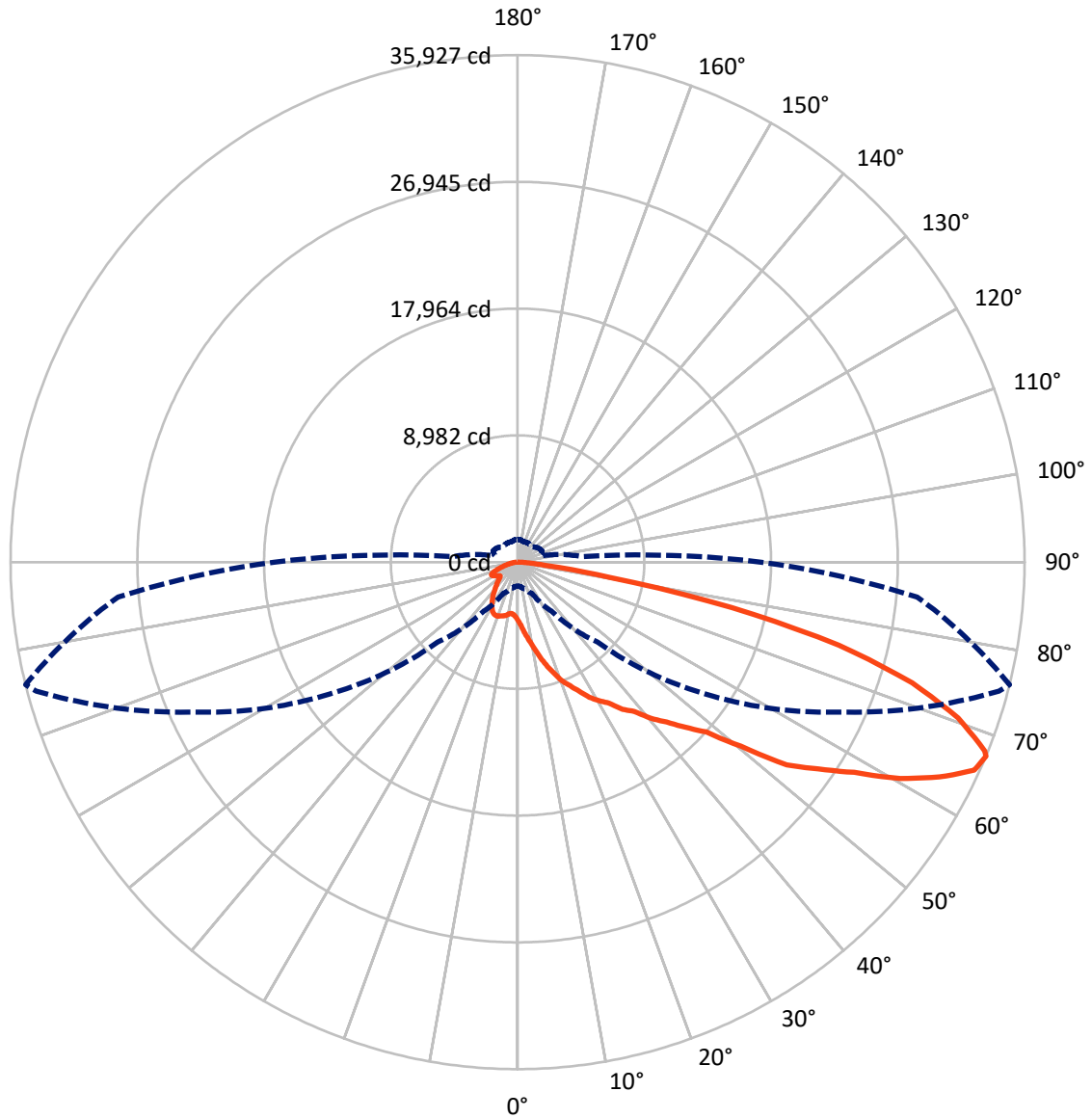
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P476978  
CATALOG NUMBER: IFLD-L-SA8B-735-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P476978  
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5742.6	0.0	5742.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	34624.0	0.0	34624.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	40366.6	0.0	40366.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.5	1.2
10°-20°	1794.6	4.4
20°-30°	3336.5	8.3
30°-40°	5289.1	13.1
40°-50°	7315.3	18.1
50°-60°	8998.3	22.3
60°-70°	8373.3	20.7
70°-80°	4201.7	10.4
80°-90°	579.3	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°	40366.6	100.0
0°-180°	40366.6	100.0

**Coefficient of Utilization**



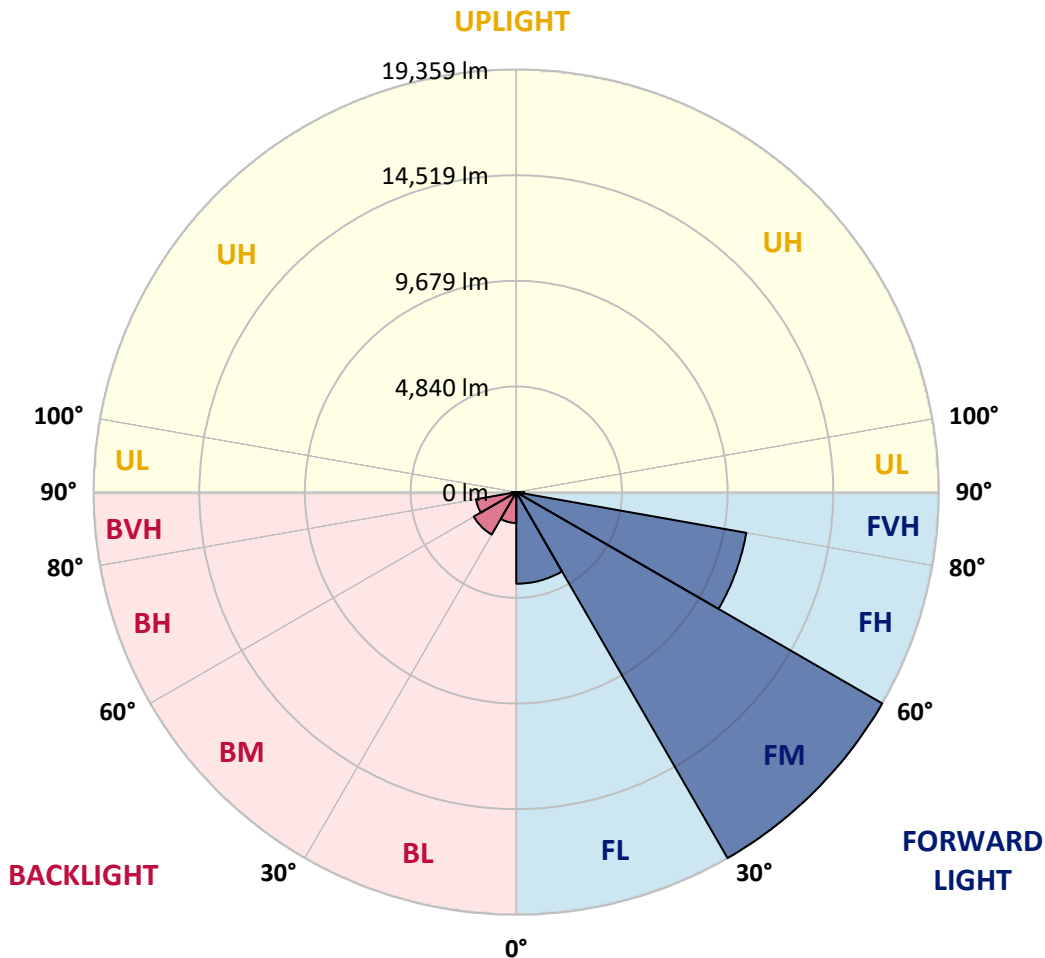
REPORT NUMBER: P476978  
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4195.5	10.4			
FM (30°-60°)	19358.6	48.0			
FH (60°-80°)	10700.9	26.5			G4/12000
FVH (80°-90°)	369.1	0.9			G3/500
BL (0°-30°)	1414.2	3.5	B3/2500		
BM (30°-60°)	2244.1	5.6	B2/2500		
BH (60°-80°)	1874.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	210.2	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





REPORT NUMBER: P476978

CATALOG NUMBER: IFLD-L-SA8B-735-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9
2.5°	5731.8	5662.8	5593.8	5446.6	5396.0	5257.9	5004.9	4724.3	4494.3	4462.1	4301.1
5°	7111.8	7010.6	6987.6	6904.8	6642.6	6375.8	5961.8	5511.0	4949.7	4991.1	4439.1
7.5°	8146.8	8087.0	7962.8	7884.6	7728.2	7374.0	6946.2	6348.2	5635.2	5497.2	4747.3
10°	8928.9	8846.0	8841.4	8772.4	8689.6	8326.2	7999.6	7194.6	6279.2	6090.6	5124.5
12.5°	9324.5	9310.7	9554.5	9554.5	9522.3	9370.5	8809.2	8073.2	6891.0	6826.6	5561.6
15°	9752.3	9637.3	9848.9	10009.9	10092.7	10170.9	9706.3	8928.9	7673.0	7548.8	6030.8
17.5°	9752.3	9743.1	9954.7	10221.5	10653.9	10755.1	10502.1	9715.5	8321.6	8229.6	6546.0
20°	9586.7	9720.1	9867.3	10226.1	10695.3	11104.7	11178.3	10520.5	9039.3	8965.7	7130.2
22.5°	10359.5	10230.7	10382.5	10520.5	10883.9	11504.9	11707.3	11228.9	9793.7	9513.1	7659.2
25°	11656.7	11569.3	11458.9	11256.5	11408.3	11679.7	11987.9	11753.3	10437.7	10124.9	8169.8
27.5°	12921.8	12926.4	12687.2	12245.5	11918.9	11974.1	12337.5	12213.3	10980.5	10842.5	8519.4
30°	14720.4	14610.0	14343.2	13745.2	13105.8	12581.4	12521.6	12641.2	11670.5	11403.7	9020.9
32.5°	16068.3	16091.3	15714.0	14853.8	13979.8	13552.0	13027.6	13078.2	12107.5	11909.7	9421.1
35°	17158.5	17130.9	16864.1	16151.1	15116.0	14600.8	13892.4	13602.6	13124.2	12811.4	10032.9
37.5°	18336.1	18110.7	17678.3	16873.3	16210.9	15497.8	14807.8	14154.6	13800.4	13423.2	10557.3
40°	18809.9	18809.9	18230.3	17862.3	17075.7	16537.5	16091.3	14881.4	14623.8	14550.2	11228.9
42.5°	18474.1	18681.1	18441.9	18023.3	17701.3	17020.5	16900.9	15635.8	15640.4	15493.2	12033.9
45°	18441.9	18156.7	17958.9	18064.7	17912.9	17876.1	18179.7	16680.1	16707.7	16689.3	13115.0
47.5°	17517.3	17388.5	17682.9	17857.7	17981.9	18552.3	19426.3	17926.7	18124.5	17986.5	14361.6
50°	16597.3	16574.3	16758.3	17393.1	17931.3	18869.7	20613.2	19849.6	20498.2	20489.0	16620.3
52.5°	14076.4	14320.2	15042.4	16385.7	17715.1	19302.1	21510.2	22306.0	23543.5	23879.3	18492.5
55°	11665.9	11537.1	12604.4	14554.8	16772.1	19472.3	22513.0	23782.7	25604.3	25848.1	20415.4
57.5°	9076.1	9315.3	10157.1	12029.3	14821.6	18630.5	23249.1	25240.9	27932.0	28120.6	22646.4
60°	6771.4	6803.6	7728.2	9237.1	12227.1	16730.7	23488.3	26736.0	30600.1	31138.3	24983.3
62.5°	4259.7	4452.9	5156.7	6642.6	9204.9	14071.8	22416.4	27642.2	33396.9	33539.5	27338.6
65°	2295.5	2419.7	2948.7	3882.5	6431.0	10644.7	19573.5	27099.4	34712.6	35559.0	28387.4
67°	1697.4	1720.4	1964.3	2479.5	4301.1	8013.4	16321.3	25135.1	35310.6	35927.0	28428.8
67.5°	1591.6	1623.8	1817.1	2226.5	3813.5	7378.6	15470.2	24435.9	35043.8	35706.2	28106.8
70°	1361.6	1370.8	1416.8	1531.8	2139.1	4439.1	10534.3	20024.4	32481.5	33116.3	25848.1
72.5°	1209.8	1219.0	1237.4	1260.4	1449.0	2566.9	6408.0	15410.4	28231.0	29243.0	22301.4
75°	1062.6	1094.8	1104.0	1085.6	1232.8	1669.8	3408.7	11325.5	23028.2	23520.5	17342.5
77.5°	901.6	915.4	933.8	952.2	1099.4	1246.6	1637.6	7645.4	15806.0	15507.0	9379.7
80°	759.0	763.6	777.4	791.2	952.2	952.2	929.2	4130.9	6904.8	6601.2	3169.5
82.5°	542.8	575.0	607.2	644.0	791.2	639.4	607.2	1840.1	2185.1	2079.3	1071.8
85°	211.6	257.6	400.2	441.6	501.4	345.0	404.8	795.8	910.8	901.6	400.2
87.5°	36.8	41.4	110.4	170.2	184.0	119.6	193.2	285.2	340.4	368.0	147.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476978  
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9
2.5°	4167.7	4025.1	3854.9	3684.7	3574.3	3399.5	3385.7	3279.9	3266.1	3229.3	3247.7
5°	4199.9	4029.7	3684.7	3413.3	3289.1	3187.9	3210.9	3164.9	3151.1	3128.1	3091.3
7.5°	4452.9	4117.1	3601.9	3367.3	3275.3	3229.3	3229.3	3174.1	3132.7	3160.3	3187.9
10°	4618.5	4158.5	3666.3	3431.7	3358.1	3256.9	3293.7	3224.7	3247.7	3192.5	3192.5
12.5°	4885.3	4393.1	3799.7	3528.3	3408.7	3316.7	3353.5	3275.3	3256.9	3261.5	3247.7
15°	5244.1	4549.5	3859.5	3583.5	3500.7	3385.7	3358.1	3289.1	3220.1	3197.1	3224.7
17.5°	5580.0	4742.7	3900.9	3615.7	3482.3	3353.5	3321.3	3233.9	3210.9	3141.9	3086.7
20°	5980.2	4972.7	3956.1	3643.3	3413.3	3284.5	3201.7	3114.3	3036.1	2994.7	3013.1
22.5°	6247.0	5092.3	3983.7	3588.1	3312.1	3192.5	3017.7	2957.9	2847.5	2801.5	2764.7
25°	6684.0	5239.5	3914.7	3436.3	3132.7	2939.5	2783.1	2700.3	2622.1	2562.3	2543.9
27.5°	6794.4	5350.0	3753.7	3178.7	2847.5	2645.1	2511.7	2410.5	2359.9	2267.9	2249.5
30°	7116.4	5239.5	3514.5	2865.9	2576.1	2369.1	2235.7	2162.1	2042.5	2019.5	1968.9
32.5°	7323.4	5271.7	3210.9	2562.3	2263.3	2079.3	1991.9	1918.3	1886.1	1775.6	1748.0
35°	7668.4	5161.3	2902.7	2281.7	2005.7	1863.1	1789.5	1766.4	1660.6	1610.0	1564.0
37.5°	7889.2	5096.9	2594.5	1964.3	1725.0	1665.2	1688.2	1591.6	1462.8	1366.2	1334.0
40°	8275.6	5073.9	2244.9	1702.0	1531.8	1518.0	1591.6	1407.6	1173.0	1090.2	1044.2
42.5°	8832.2	4917.5	1973.5	1467.4	1380.0	1439.8	1453.6	1173.0	1039.6	970.6	938.4
45°	9365.9	4949.7	1706.6	1214.4	1200.6	1288.0	1255.8	993.6	915.4	864.8	892.4
47.5°	10391.7	5110.7	1444.4	1012.0	1081.0	1163.8	975.2	887.8	814.2	777.4	782.0
50°	11978.7	5267.1	1214.4	924.6	1021.2	1053.4	837.2	805.0	800.4	726.8	722.2
52.5°	12931.0	5207.3	1173.0	1035.0	1094.8	1053.4	910.8	887.8	851.0	818.8	782.0
55°	14444.4	5382.2	1260.4	1209.8	1242.0	1012.0	1021.2	1012.0	984.4	901.6	924.6
57.5°	15649.6	5497.2	1375.4	1352.4	1334.0	1053.4	1067.2	1071.8	1053.4	1016.6	1048.8
60°	17305.7	5727.2	1495.0	1499.6	1504.2	1145.4	1168.4	1196.0	1191.4	1177.6	1186.8
62.5°	18322.3	5621.4	1628.4	1702.0	1679.0	1334.0	1329.4	1347.8	1347.8	1370.8	1384.6
65°	18170.5	5230.3	1697.4	1881.5	1761.8	1472.0	1472.0	1481.2	1485.8	1531.8	1536.4
67°	17259.7	4531.1	1660.6	1909.1	1761.8	1527.2	1527.2	1536.4	1504.2	1623.8	1587.0
67.5°	16836.5	4324.1	1628.4	1886.1	1748.0	1522.6	1522.6	1527.2	1499.6	1614.6	1577.8
70°	14642.2	3210.9	1403.0	1669.8	1619.2	1481.2	1481.2	1453.6	1430.6	1582.4	1550.2
72.5°	12498.6	2332.3	1127.0	1421.4	1462.8	1426.0	1435.2	1366.2	1301.8	1407.6	1380.0
75°	9572.9	1715.8	878.6	1094.8	1237.4	1334.0	1393.8	1219.0	1136.2	1163.8	1113.2
77.5°	5340.7	1117.8	694.6	809.6	943.0	1242.0	1338.6	1099.4	929.2	897.0	897.0
80°	1812.5	653.2	510.6	602.6	648.6	1099.4	1251.2	892.4	731.4	699.2	676.2
82.5°	685.4	400.2	349.6	414.0	414.0	869.4	1021.2	685.4	552.0	713.0	726.8
85°	312.8	239.2	230.0	239.2	239.2	533.6	722.2	446.2	496.8	427.8	377.2
87.5°	124.2	115.0	105.8	101.2	82.8	92.0	248.4	119.6	225.4	59.8	55.2
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)