

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: P477049

Luminaire Tested: **IFLD-M-SA4E-750-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477049  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-750-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

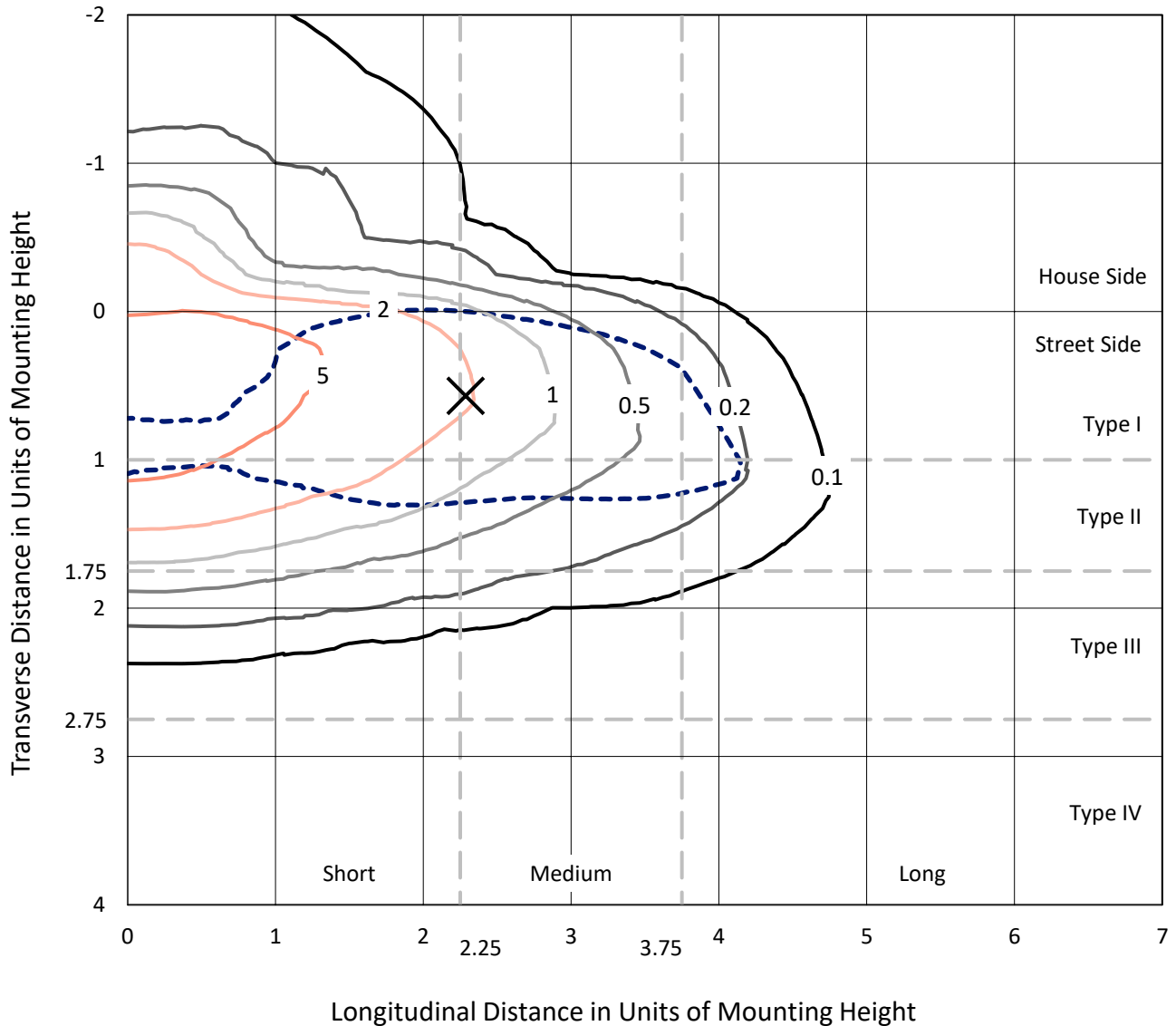
Lumens per Lamp: N/A  
Luminaire Lumens: 37241.8 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8  
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

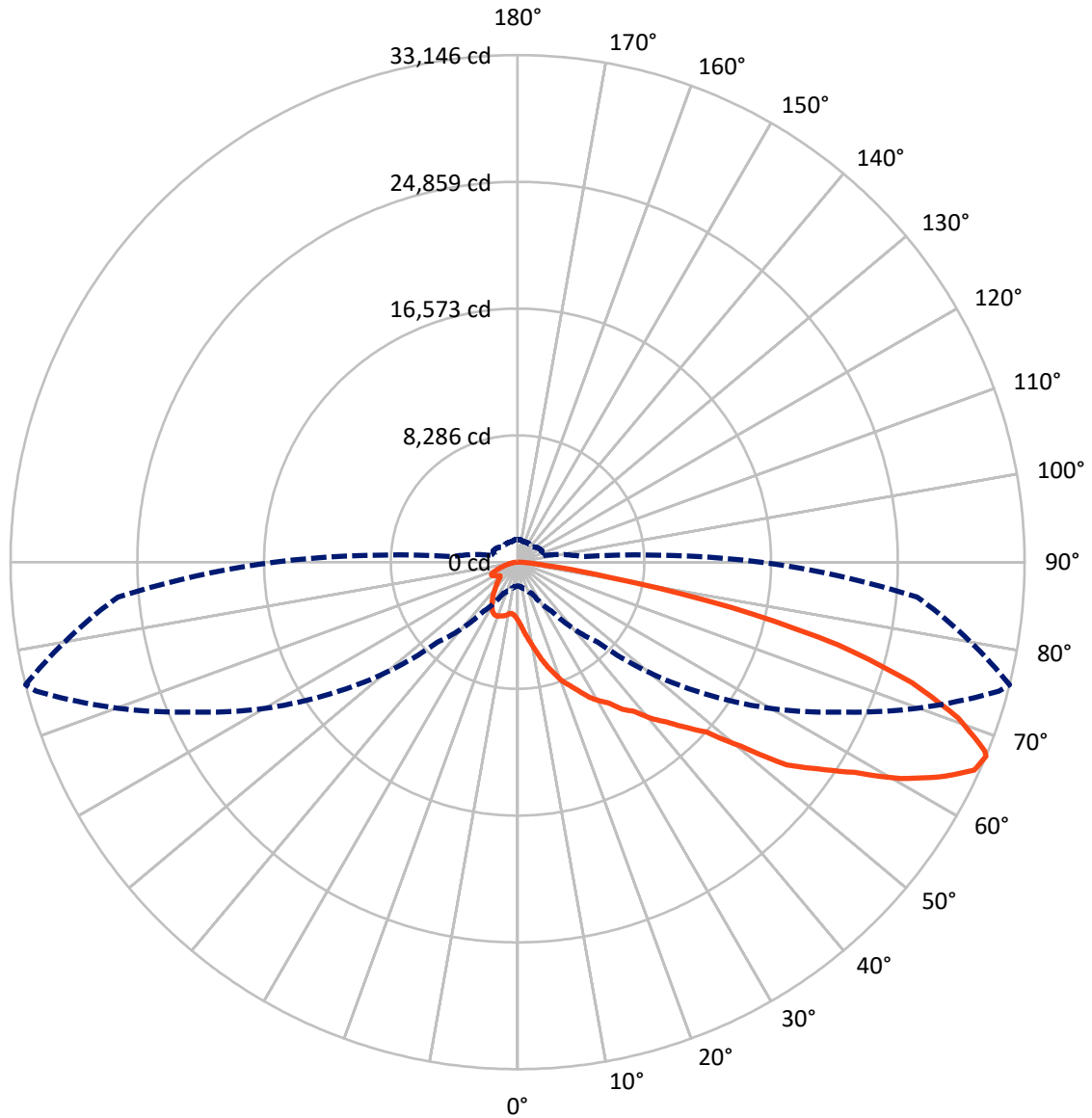
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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	5298.1	0.0	5298.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	31943.7	0.0	31943.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	37241.8	0.0	37241.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.5	1.2
10°-20°	1655.7	4.4
20°-30°	3078.2	8.3
30°-40°	4879.7	13.1
40°-50°	6749.0	18.1
50°-60°	8301.7	22.3
60°-70°	7725.1	20.7
70°-80°	3876.4	10.4
80°-90°	534.5	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°	37241.8	100.0
0°-180°	37241.8	100.0

**Coefficient of Utilization**



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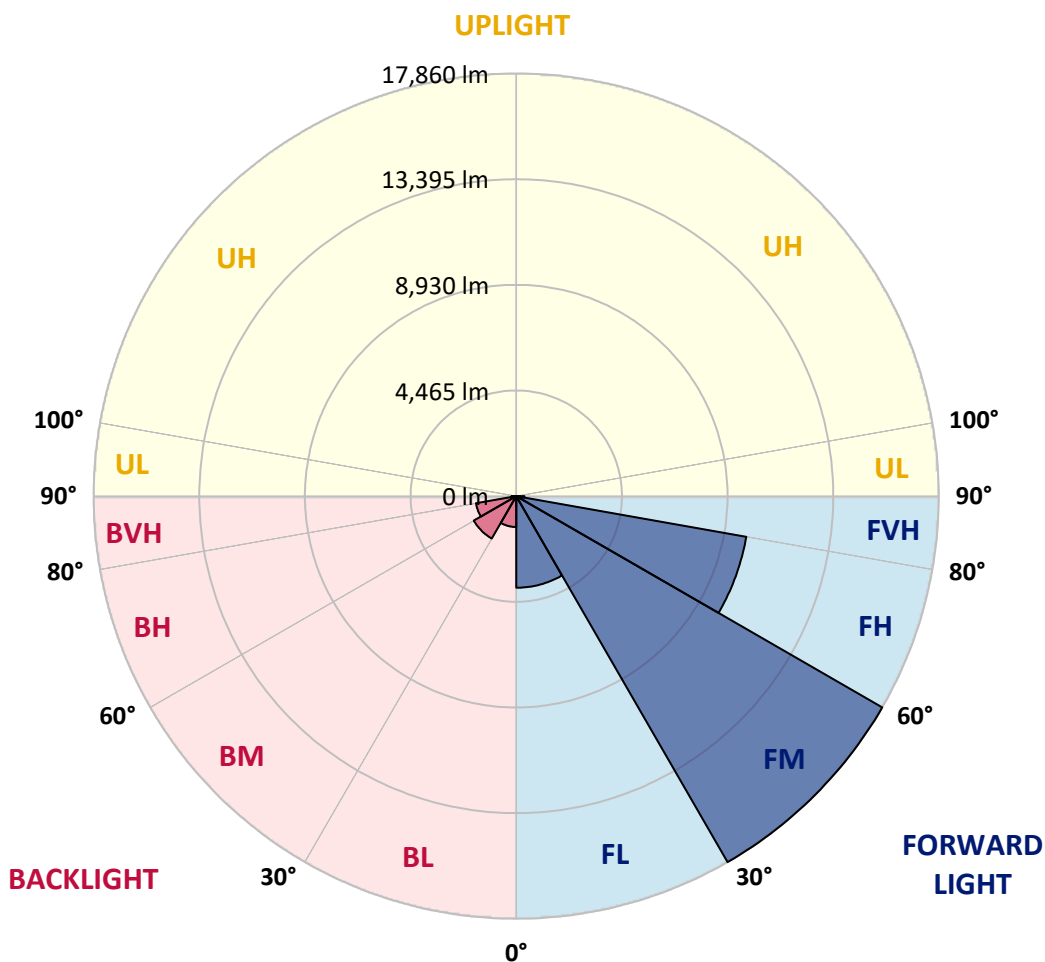
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3870.7	10.4			
FM (30°-60°)	17860.0	48.0			
FH (60°-80°)	9872.5	26.5			G4/12000
FVH (80°-90°)	340.5	0.9			G3/500
BL (0°-30°)	1304.7	3.5	B3/2500		
BM (30°-60°)	2070.4	5.6	B2/2500		
BH (60°-80°)	1729.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	194.0	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°	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1
2.5°	5288.0	5224.4	5160.7	5024.9	4978.2	4850.9	4617.5	4358.6	4146.4	4116.7	3968.2
5°	6561.3	6467.9	6446.7	6370.3	6128.4	5882.2	5500.3	5084.3	4566.6	4604.8	4095.5
7.5°	7516.2	7461.0	7346.4	7274.3	7130.0	6803.2	6408.5	5856.7	5198.9	5071.6	4379.8
10°	8237.6	8161.3	8157.0	8093.3	8017.0	7681.7	7380.4	6637.6	5793.1	5619.1	4727.8
12.5°	8602.6	8589.9	8814.8	8814.8	8785.1	8645.1	8127.3	7448.3	6357.5	6298.1	5131.0
15°	8997.3	8891.2	9086.4	9235.0	9311.4	9383.5	8954.9	8237.6	7079.0	6964.4	5563.9
17.5°	8997.3	8988.8	9184.1	9430.2	9829.2	9922.5	9689.1	8963.4	7677.4	7592.6	6039.2
20°	8844.5	8967.6	9103.4	9434.5	9867.3	10245.1	10313.0	9706.1	8339.5	8271.6	6578.2
22.5°	9557.5	9438.7	9578.8	9706.1	10041.4	10614.3	10801.0	10359.7	9035.5	8776.6	7066.3
25°	10754.3	10673.7	10571.9	10385.1	10525.2	10775.6	11059.9	10843.5	9629.7	9341.1	7537.4
27.5°	11921.5	11925.7	11705.0	11297.6	10996.3	11047.2	11382.5	11267.9	10130.5	10003.2	7859.9
30°	13580.9	13479.0	13232.9	12681.1	12091.2	11607.4	11552.2	11662.6	10767.1	10520.9	8322.5
32.5°	14824.4	14845.6	14497.6	13703.9	12897.6	12502.9	12019.1	12065.7	11170.3	10987.8	8691.8
35°	15830.2	15804.7	15558.6	14900.8	13945.9	13470.5	12816.9	12549.6	12108.2	11819.6	9256.2
37.5°	16916.7	16708.7	16309.8	15567.1	14955.9	14298.1	13661.5	13058.8	12732.1	12384.1	9740.0
40°	17353.8	17353.8	16819.1	16479.5	15753.8	15257.3	14845.6	13729.4	13491.7	13423.8	10359.7
42.5°	17044.0	17235.0	17014.3	16628.1	16331.0	15702.9	15592.5	14425.4	14429.7	14293.9	11102.4
45°	17014.3	16751.1	16568.7	16666.3	16526.2	16492.3	16772.4	15388.8	15414.3	15397.3	12099.7
47.5°	16161.2	16042.4	16314.0	16475.3	16589.9	17116.1	17922.5	16538.9	16721.4	16594.1	13249.8
50°	15312.4	15291.2	15461.0	16046.6	16543.2	17409.0	19017.5	18312.9	18911.4	18902.9	15333.6
52.5°	12986.7	13211.6	13877.9	15117.2	16343.7	17807.9	19845.0	20579.3	21720.9	22030.7	17061.0
55°	10762.8	10644.0	11628.6	13428.1	15473.7	17964.9	20770.2	21941.6	23622.2	23847.1	18835.0
57.5°	8373.5	8594.1	9370.8	11098.1	13674.2	17188.3	21449.3	23286.9	25769.7	25943.7	20893.3
60°	6247.2	6276.9	7130.0	8522.0	11280.6	15435.5	21670.0	24666.2	28231.2	28727.8	23049.3
62.5°	3930.0	4108.2	4757.5	6128.4	8492.3	12982.5	20681.1	25502.3	30811.6	30943.2	25222.2
65°	2117.8	2232.4	2720.4	3582.0	5933.1	9820.7	18058.3	25001.5	32025.4	32806.3	26189.8
67°	1566.0	1587.3	1812.2	2287.5	3968.2	7393.1	15057.8	23189.3	32577.1	33145.8	26228.0
67.5°	1468.4	1498.1	1676.4	2054.1	3518.3	6807.4	14272.6	22544.2	32330.9	32942.1	25931.0
70°	1256.2	1264.7	1307.2	1413.3	1973.5	4095.5	9718.8	18474.2	29967.0	30552.7	23847.1
72.5°	1116.2	1124.7	1141.6	1162.9	1336.9	2368.2	5911.9	14217.5	26045.6	26979.2	20575.0
75°	980.4	1010.1	1018.6	1001.6	1137.4	1540.6	3144.8	10448.8	21245.6	21699.7	16000.0
77.5°	831.8	844.6	861.5	878.5	1014.3	1150.1	1510.9	7053.6	14582.5	14306.6	8653.6
80°	700.3	704.5	717.2	730.0	878.5	878.5	857.3	3811.1	6370.3	6090.2	2924.1
82.5°	500.8	530.5	560.2	594.2	730.0	589.9	560.2	1697.6	2015.9	1918.3	988.9
85°	195.2	237.7	369.2	407.4	462.6	318.3	373.5	734.2	840.3	831.8	369.2
87.5°	34.0	38.2	101.9	157.0	169.8	110.3	178.2	263.1	314.1	339.5	135.8
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°	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1	3811.1
2.5°	3845.1	3713.5	3556.5	3399.5	3297.6	3136.3	3123.6	3026.0	3013.3	2979.3	2996.3
5°	3874.8	3717.8	3399.5	3149.1	3034.5	2941.1	2962.3	2919.9	2907.2	2885.9	2852.0
7.5°	4108.2	3798.4	3323.1	3106.6	3021.7	2979.3	2979.3	2928.4	2890.2	2915.6	2941.1
10°	4261.0	3836.6	3382.5	3166.0	3098.1	3004.8	3038.7	2975.1	2996.3	2945.3	2945.3
12.5°	4507.1	4053.0	3505.6	3255.2	3144.8	3059.9	3093.9	3021.7	3004.8	3009.0	2996.3
15°	4838.2	4197.3	3560.7	3306.1	3229.7	3123.6	3098.1	3034.5	2970.8	2949.6	2975.1
17.5°	5148.0	4375.6	3598.9	3335.8	3212.7	3093.9	3064.2	2983.5	2962.3	2898.7	2847.7
20°	5517.2	4587.8	3649.9	3361.3	3149.1	3030.2	2953.8	2873.2	2801.1	2762.9	2779.8
22.5°	5763.4	4698.1	3675.3	3310.3	3055.7	2945.3	2784.1	2728.9	2627.0	2584.6	2550.7
25°	6166.6	4833.9	3611.7	3170.3	2890.2	2711.9	2567.6	2491.2	2419.1	2363.9	2346.9
27.5°	6268.4	4935.8	3463.1	2932.6	2627.0	2440.3	2317.2	2223.9	2177.2	2092.3	2075.3
30°	6565.5	4833.9	3242.4	2644.0	2376.7	2185.7	2062.6	1994.7	1884.3	1863.1	1816.4
32.5°	6756.5	4863.6	2962.3	2363.9	2088.1	1918.3	1837.7	1769.8	1740.0	1638.2	1612.7
35°	7074.8	4761.8	2678.0	2105.0	1850.4	1718.8	1650.9	1629.7	1532.1	1485.4	1443.0
37.5°	7278.5	4702.4	2393.6	1812.2	1591.5	1536.3	1557.6	1468.4	1349.6	1260.5	1230.8
40°	7635.0	4681.2	2071.1	1570.3	1413.3	1400.5	1468.4	1298.7	1082.2	1005.8	963.4
42.5°	8148.5	4536.9	1820.7	1353.8	1273.2	1328.4	1341.1	1082.2	959.1	895.5	865.8
45°	8640.8	4566.6	1574.5	1120.4	1107.7	1188.3	1158.6	916.7	844.6	797.9	823.3
47.5°	9587.2	4715.1	1332.6	933.7	997.3	1073.7	899.7	819.1	751.2	717.2	721.5
50°	11051.4	4859.4	1120.4	853.0	942.2	971.9	772.4	742.7	738.5	670.6	666.3
52.5°	11929.9	4804.2	1082.2	954.9	1010.1	971.9	840.3	819.1	785.1	755.4	721.5
55°	13326.2	4965.5	1162.9	1116.2	1145.9	933.7	942.2	933.7	908.2	831.8	853.0
57.5°	14438.2	5071.6	1269.0	1247.7	1230.8	971.9	984.6	988.9	971.9	937.9	967.6
60°	15966.0	5283.8	1379.3	1383.6	1387.8	1056.8	1078.0	1103.4	1099.2	1086.5	1095.0
62.5°	16903.9	5186.2	1502.4	1570.3	1549.1	1230.8	1226.5	1243.5	1243.5	1264.7	1277.5
65°	16763.9	4825.5	1566.0	1735.8	1625.5	1358.1	1358.1	1366.6	1370.8	1413.3	1417.5
67°	15923.6	4180.4	1532.1	1761.3	1625.5	1409.0	1409.0	1417.5	1387.8	1498.1	1464.2
67.5°	15533.1	3989.4	1502.4	1740.0	1612.7	1404.8	1404.8	1409.0	1383.6	1489.7	1455.7
70°	13508.7	2962.3	1294.4	1540.6	1493.9	1366.6	1366.6	1341.1	1319.9	1459.9	1430.2
72.5°	11531.0	2151.7	1039.8	1311.4	1349.6	1315.6	1324.1	1260.5	1201.1	1298.7	1273.2
75°	8831.8	1583.0	810.6	1010.1	1141.6	1230.8	1285.9	1124.7	1048.3	1073.7	1027.1
77.5°	4927.3	1031.3	640.8	746.9	870.0	1145.9	1235.0	1014.3	857.3	827.6	827.6
80°	1672.1	602.7	471.1	556.0	598.4	1014.3	1154.4	823.3	674.8	645.1	623.9
82.5°	632.4	369.2	322.5	382.0	382.0	802.1	942.2	632.4	509.3	657.8	670.6
85°	288.6	220.7	212.2	220.7	220.7	492.3	666.3	411.7	458.4	394.7	348.0
87.5°	114.6	106.1	97.6	93.4	76.4	84.9	229.2	110.3	208.0	55.2	50.9
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)