

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: P478692

Luminaire Tested: **IFLD-L-SA7E-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478692  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

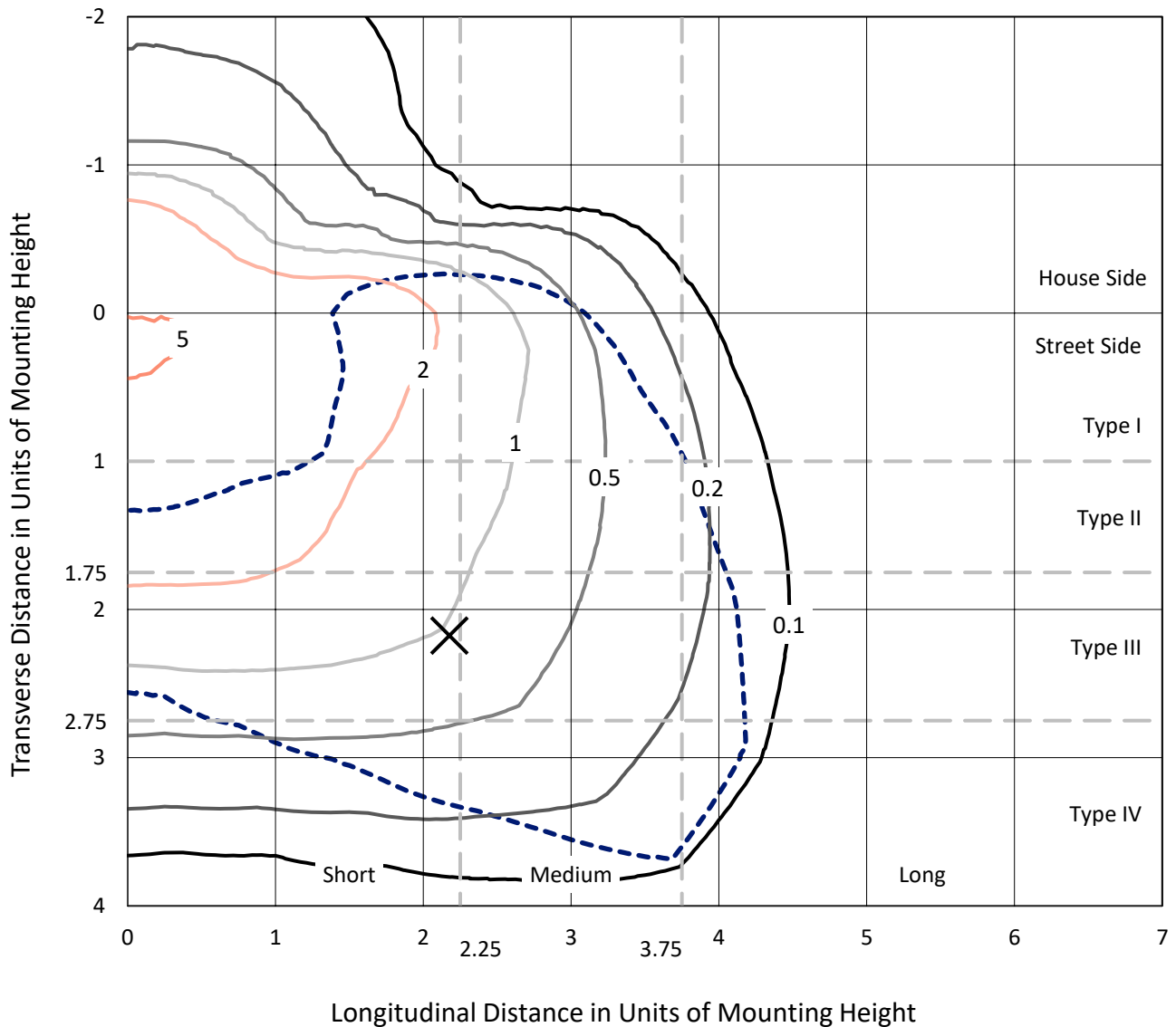
Lumens per Lamp: N/A  
Luminaire Lumens: 41944.8 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

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

REPORT NUMBER: P478692  
 CATALOG NUMBER: IFLD-L-SA7E-827-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

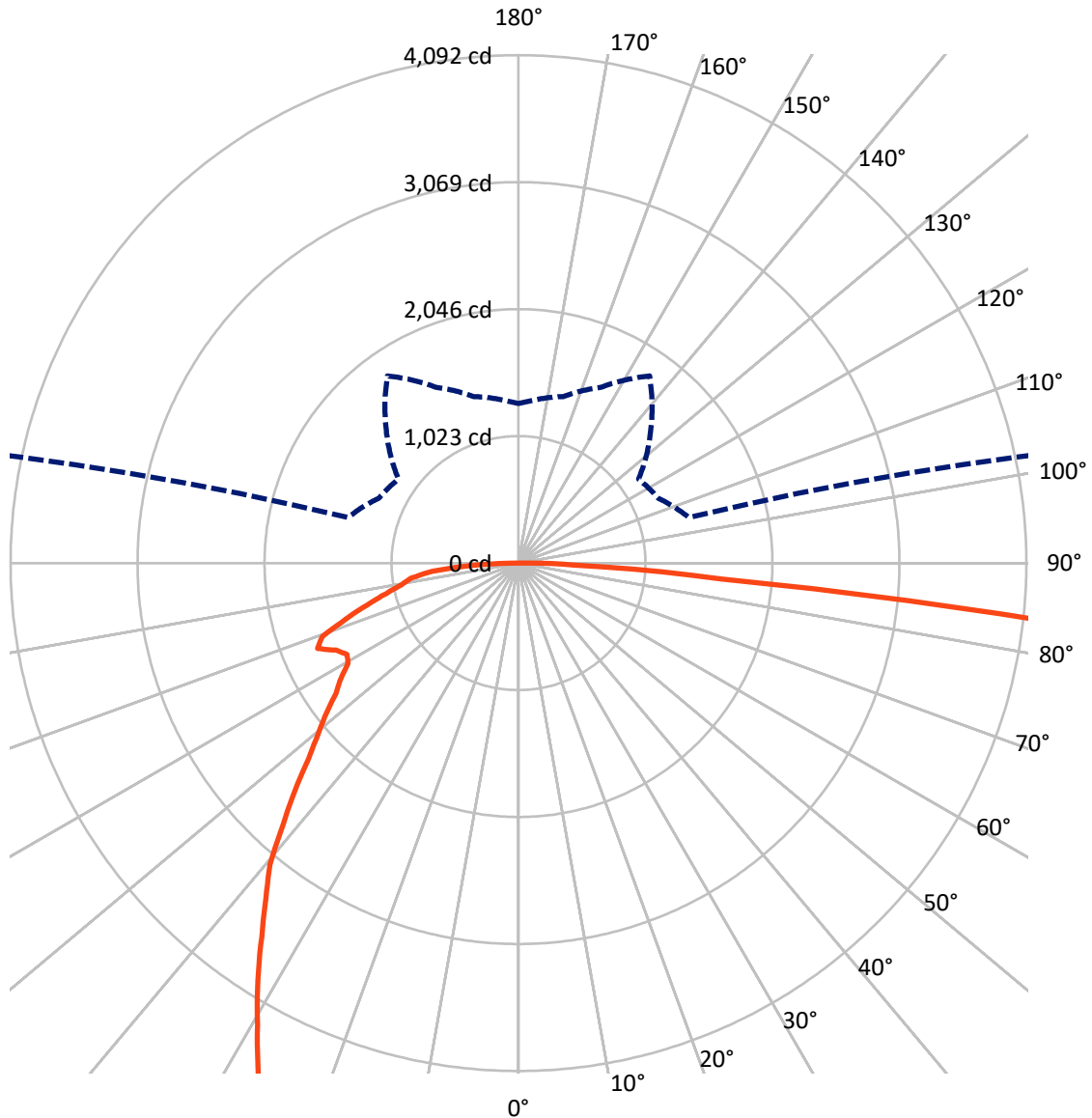
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478692  
CATALOG NUMBER: IFLD-L-SA7E-827-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9337.1	0.0	9337.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	32607.6	0.0	32607.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	41944.8	0.0	41944.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.0	1.1
10°-20°	1470.6	3.5
20°-30°	2483.4	5.9
30°-40°	3436.7	8.2
40°-50°	4915.8	11.7
50°-60°	7928.6	18.9
60°-70°	11693.6	27.9
70°-80°	8491.6	20.2
80°-90°	1082.5	2.6
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°	41944.8	100.0
0°-180°	41944.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478692

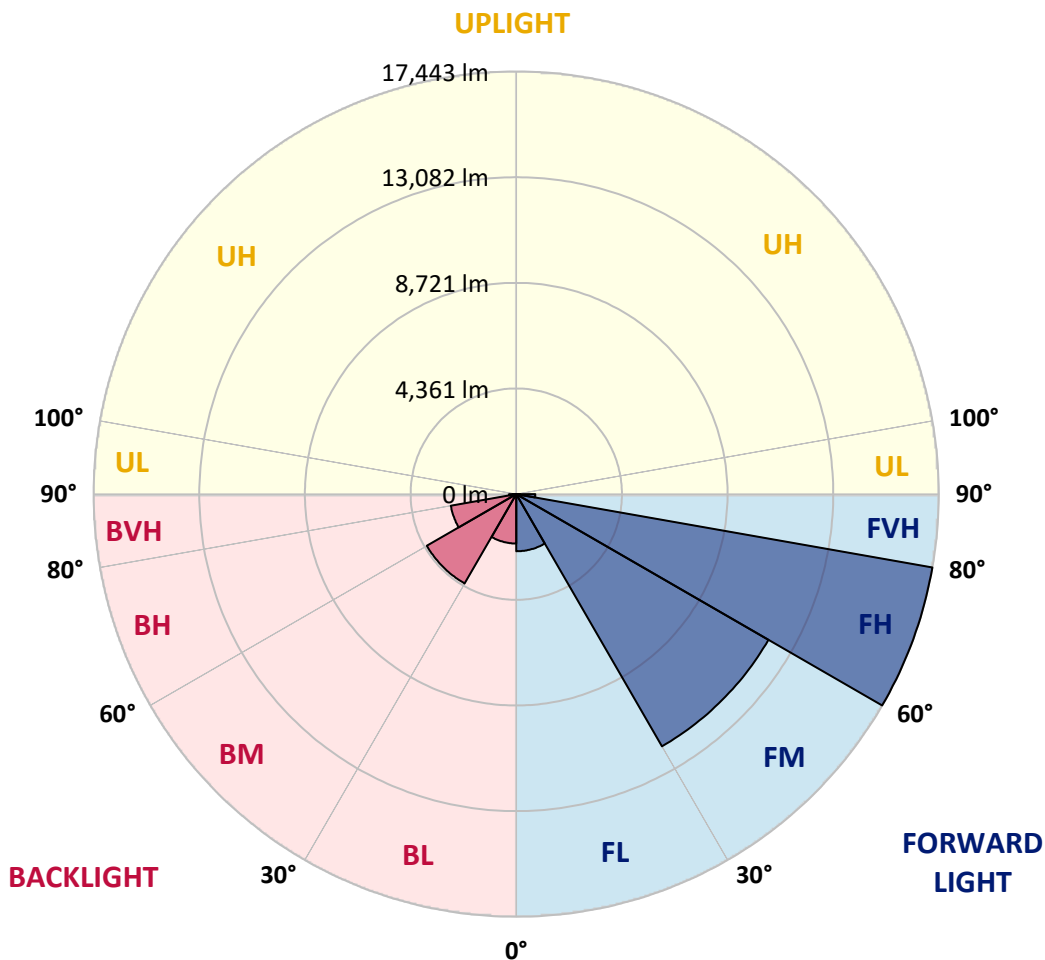
CATALOG NUMBER: IFLD-L-SA7E-827-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2357.3	5.6			
FM (30°-60°)	12019.9	28.7			
FH (60°-80°)	17442.5	41.6			G5
FVH (80°-90°)	787.9	1.9			G5
BL (0°-30°)	2038.7	4.9	B3/2500		
BM (30°-60°)	4261.2	10.2	B3/5000		
BH (60°-80°)	2742.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	294.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6
2.5°	4550.2	4577.4	4550.2	4545.7	4500.5	4468.8	4496.0	4455.2	4410.0	4391.9	4351.2
5°	4966.4	4970.9	4921.1	4925.6	4830.7	4731.2	4749.2	4627.1	4496.0	4446.2	4364.8
7.5°	5391.5	5341.8	5269.4	5246.8	5097.5	4989.0	4975.4	4866.8	4663.3	4550.2	4437.2
10°	5667.4	5685.5	5567.9	5468.4	5341.8	5210.6	5206.1	5002.5	4884.9	4717.6	4572.8
12.5°	5911.7	5916.2	5816.7	5658.4	5500.1	5337.2	5359.9	5269.4	5070.4	4912.1	4767.3
15°	6101.7	6074.5	5966.0	5821.2	5653.9	5527.2	5513.6	5436.8	5269.4	5138.2	4898.5
17.5°	6155.9	6142.4	6033.8	5880.0	5717.2	5622.2	5658.4	5531.7	5463.9	5346.3	5115.6
20°	6051.9	6020.2	6002.1	5830.3	5712.7	5703.6	5672.0	5699.1	5586.0	5477.5	5310.1
22.5°	5861.9	5848.4	5839.3	5703.6	5649.3	5690.1	5744.3	5785.0	5766.9	5662.9	5472.9
25°	5667.4	5730.8	5672.0	5608.6	5685.5	5789.6	5776.0	5907.2	5907.2	5875.5	5717.2
27.5°	5803.1	5762.4	5717.2	5685.5	5712.7	5875.5	5866.5	6024.8	6083.6	6024.8	5843.8
30°	6142.4	6101.7	5970.5	5830.3	5794.1	5970.5	6015.7	6155.9	6183.1	6038.3	5884.5
32.5°	6780.1	6757.5	6549.4	6137.8	5916.2	6015.7	6038.3	6196.6	6174.0	6083.6	6020.2
35°	7725.4	7648.5	7359.1	6662.5	6174.0	6074.5	6015.7	6142.4	6228.3	6183.1	6124.3
37.5°	8761.2	8675.3	8318.0	7436.0	6639.9	6232.8	6187.6	6291.6	6391.1	6368.5	6246.4
40°	9751.8	9751.8	9430.6	8403.9	7331.9	6617.3	6626.3	6508.7	6599.2	6558.5	6581.1
42.5°	10728.8	10692.6	10561.4	9539.2	8073.7	7259.6	7114.8	6820.8	6983.7	6970.1	7001.7
45°	11719.3	11692.2	11656.0	10597.6	9136.6	8128.0	8051.1	7521.9	7671.2	7607.8	7743.5
47.5°	12510.9	12542.5	12542.5	11778.1	10271.9	9285.9	9172.8	8336.1	8621.0	8652.7	8684.3
50°	13184.8	13198.4	13184.8	12904.4	11538.4	10611.2	10380.5	9530.2	9815.1	10063.9	10353.4
52.5°	14116.6	14134.7	14071.3	13962.8	13257.2	12004.3	11746.5	10801.1	11384.6	11647.0	12167.1
55°	15265.4	15129.7	15012.1	15093.6	14908.1	13537.6	13270.8	12112.8	12990.3	13338.6	14378.9
57.5°	15478.0	15595.6	15894.1	16540.9	16807.8	15030.2	14876.5	13723.1	14804.1	15107.1	16844.0
60°	16228.9	16034.4	16767.1	18169.3	18467.8	16975.2	16816.9	15487.1	16608.8	16925.4	19119.1
62.5°	16721.9	16712.8	17798.4	19462.9	20141.3	18992.5	18671.3	17780.3	18558.2	18865.8	21597.8
65°	16577.1	16708.3	18635.1	20222.7	21539.0	21285.7	21100.2	19752.3	20779.1	20751.9	23212.5
67.5°	15256.4	15627.3	18105.9	20770.0	23619.6	24080.9	24022.1	22525.0	22583.8	22009.4	23931.7
70°	13424.5	13297.9	15867.0	20200.1	24659.9	27396.4	27382.8	24587.5	24207.6	22285.3	21869.2
72°	10312.7	10172.4	12284.7	17346.1	24112.6	28721.6	29128.7	26016.8	24189.5	21140.9	18065.2
72.5°	9362.8	9240.7	11343.9	16328.4	23506.5	29065.4	28875.4	26071.1	23999.5	20602.7	16875.7
75°	4310.5	4170.3	5667.4	9996.0	18336.6	25754.5	26401.3	24397.6	20960.0	16400.7	10109.1
77.5°	1284.6	1243.9	1822.8	4034.6	10656.4	18974.4	19223.1	18409.0	14632.2	8982.9	3749.6
80°	714.6	719.2	940.8	1510.7	4685.9	10968.5	11864.1	11371.1	7178.1	2967.1	1248.4
82.5°	398.0	420.6	588.0	895.6	2153.0	5034.2	5418.7	5224.2	2596.3	1393.1	683.0
85°	208.1	217.1	307.6	479.4	1221.2	1592.1	1637.4	1755.0	1347.9	949.8	366.4
87.5°	81.4	81.4	113.1	199.0	452.3	493.0	443.3	538.2	773.4	615.1	180.9
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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 CATALOG NUMBER: IFLD-L-SA7E-827-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6	4319.6
2.5°	4387.4	4351.2	4346.7	4287.9	4306.0	4256.2	4260.8	4251.7	4256.2	4247.2	4224.6
5°	4364.8	4337.6	4260.8	4310.5	4265.3	4328.6	4378.4	4360.3	4373.8	4369.3	4373.8
7.5°	4396.4	4360.3	4351.2	4324.1	4364.8	4391.9	4432.6	4545.7	4536.7	4550.2	4577.4
10°	4491.4	4450.7	4423.6	4464.3	4441.7	4527.6	4572.8	4631.6	4735.7	4740.2	4685.9
12.5°	4676.9	4649.7	4595.5	4604.5	4681.4	4708.5	4735.7	4771.9	4839.7	4826.1	4875.9
15°	4889.5	4830.7	4799.0	4790.0	4808.0	4839.7	4835.2	4871.4	4907.6	4939.2	4925.6
17.5°	5043.2	4966.4	4975.4	5020.6	5016.1	5007.1	4948.3	4930.2	4948.3	4966.4	4957.3
20°	5201.6	5210.6	5142.8	5102.0	5084.0	4993.5	4948.3	4894.0	4839.7	4866.8	4907.6
22.5°	5400.6	5359.9	5260.4	5138.2	5047.8	4993.5	4853.3	4758.3	4758.3	4785.4	4771.9
25°	5626.7	5540.8	5368.9	5147.3	5034.2	4803.5	4704.0	4690.4	4654.3	4695.0	4713.1
27.5°	5803.1	5726.2	5491.0	5115.6	4803.5	4618.1	4559.3	4541.2	4600.0	4604.5	4676.9
30°	5875.5	5852.9	5509.1	5034.2	4568.3	4269.8	4233.6	4315.0	4378.4	4473.3	4477.9
32.5°	5970.5	5979.5	5536.3	4844.2	4260.8	3962.2	3908.0	4007.5	4188.4	4265.3	4324.1
35°	6128.8	6174.0	5513.6	4609.0	3935.1	3650.1	3641.1	3668.2	3844.6	3980.3	4057.2
37.5°	6404.7	6395.7	5509.1	4328.6	3677.3	3378.8	3306.4	3315.4	3433.0	3546.1	3532.5
40°	6775.6	6739.4	5495.6	3962.2	3342.6	3148.1	3025.9	2980.7	2971.7	2940.0	2949.1
42.5°	7282.2	7209.8	5491.0	3591.3	3039.5	2831.5	2745.5	2627.9	2542.0	2379.1	2388.2
45°	7987.8	7861.1	5373.4	3243.1	2741.0	2569.1	2437.9	2352.0	2166.6	1963.0	1963.0
47.5°	9077.8	8666.2	5378.0	2858.6	2451.5	2311.3	2220.8	2071.6	1872.6	1709.7	1691.6
50°	10683.5	9742.7	5224.2	2555.5	2216.3	2121.3	2026.3	1854.5	1664.5	1551.4	1565.0
52.5°	12755.1	11348.4	5219.6	2284.2	2030.9	1963.0	1859.0	1705.2	1565.0	1492.6	1465.5
55°	15224.7	13474.3	5382.5	2062.5	1840.9	1804.7	1759.5	1632.8	1497.1	1433.8	1429.3
57.5°	17753.1	15550.4	5644.8	1904.2	1678.1	1705.2	1673.5	1574.0	1465.5	1393.1	1384.1
60°	20001.1	17196.8	5115.6	1714.3	1533.3	1592.1	1637.4	1551.4	1492.6	1488.1	1456.4
62.5°	21697.3	17902.4	3889.9	1569.5	1456.4	1565.0	1687.1	1741.4	1714.3	1750.4	1755.0
65°	22316.9	17477.2	2677.7	1492.6	1397.6	1628.3	1899.7	1881.6	1723.3	1655.5	1691.6
67.5°	21448.5	15753.9	1985.6	1402.2	1356.9	1759.5	2021.8	1795.7	1555.9	1546.9	1519.8
70°	18445.2	13352.2	1619.3	1307.2	1289.1	1687.1	1967.5	1664.5	1465.5	1406.7	1379.5
72°	14695.5	10398.6	1420.3	1239.3	1180.5	1506.2	1840.9	1560.5	1388.6	1316.2	1284.6
72.5°	13415.5	9638.7	1393.1	1207.7	1157.9	1465.5	1777.6	1528.8	1370.5	1307.2	1257.4
75°	7359.1	4934.7	1225.8	1108.2	977.0	1266.5	1646.4	1433.8	1293.6	1203.1	1194.1
77.5°	2736.5	1913.3	1058.4	981.5	845.8	1094.6	1497.1	1361.5	1176.0	1062.9	1040.3
80°	1049.4	1008.6	863.9	827.7	710.1	958.9	1379.5	1221.2	999.6	886.5	850.3
82.5°	637.8	588.0	655.8	646.8	542.8	873.0	1298.1	1144.3	886.5	719.2	696.6
85°	348.3	348.3	456.8	438.7	379.9	696.6	981.5	759.9	560.9	461.4	470.4
87.5°	153.8	180.9	244.2	230.7	208.1	393.5	479.4	402.6	280.4	190.0	203.5
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)