

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: P478058

Luminaire Tested: **IFLD-S-SA6E-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478058  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-727-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

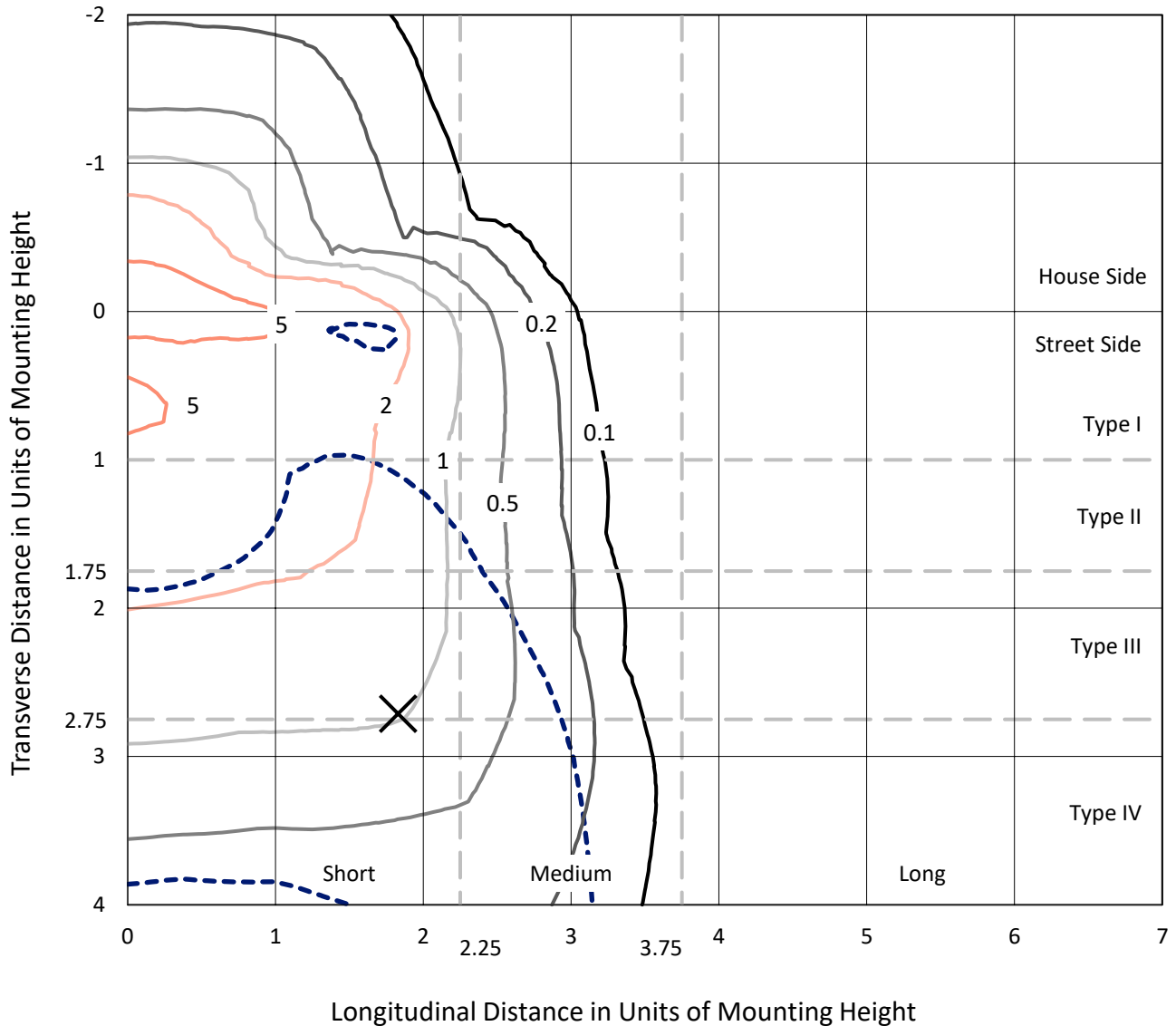
Lumens per Lamp: N/A  
Luminaire Lumens: 45334.9 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2  
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

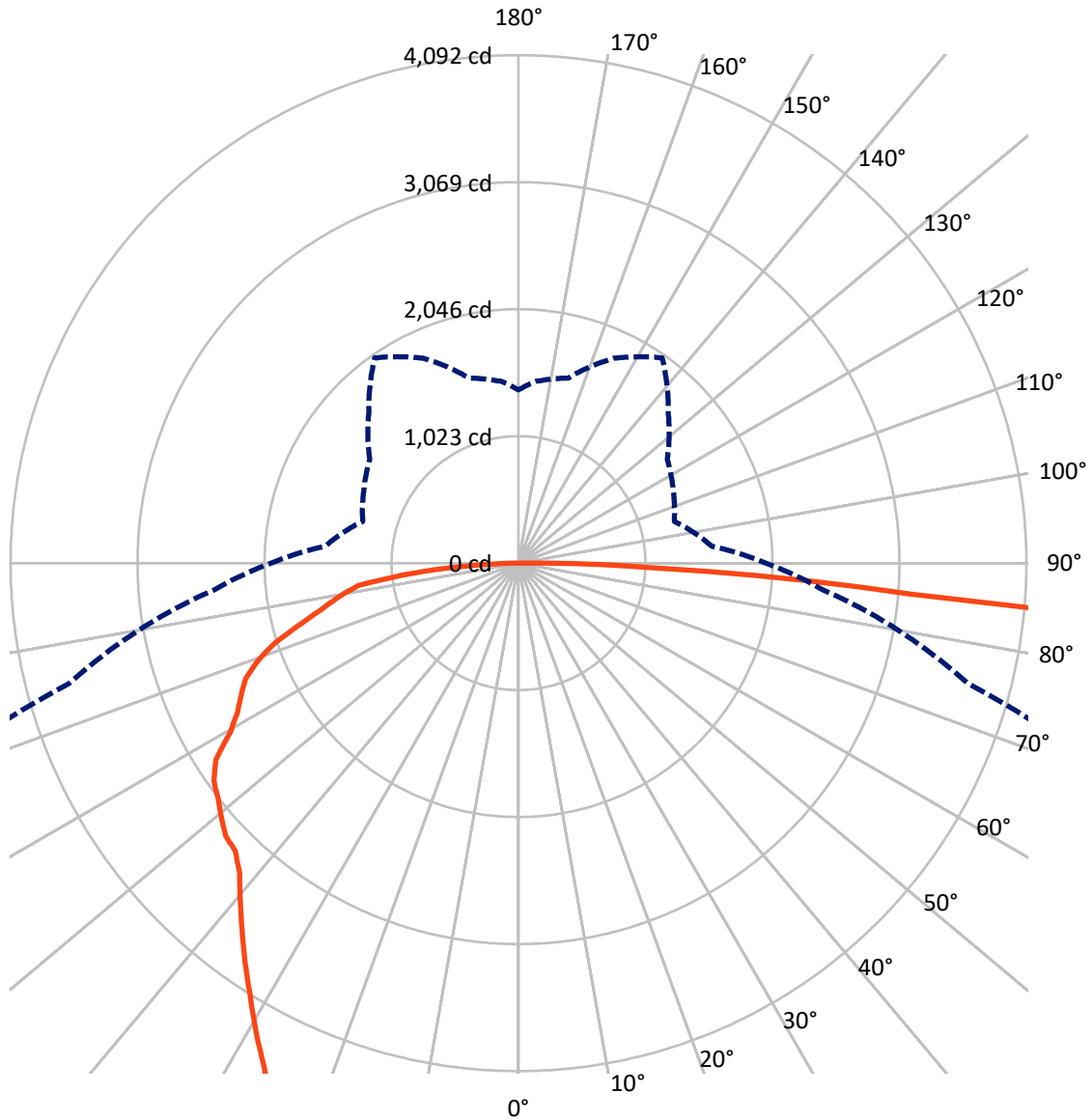
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9792.9	0.0	9792.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	35542.0	0.0	35542.0
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	45334.9	0.0	45334.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.9	1.3
10°-20°	1678.8	3.7
20°-30°	2763.0	6.1
30°-40°	4132.1	9.1
40°-50°	6125.7	13.5
50°-60°	8827.7	19.5
60°-70°	11265.4	24.8
70°-80°	8766.3	19.3
80°-90°	1176.0	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°	45334.9	100.0
0°-180°	45334.9	100.0

**Coefficient of Utilization**



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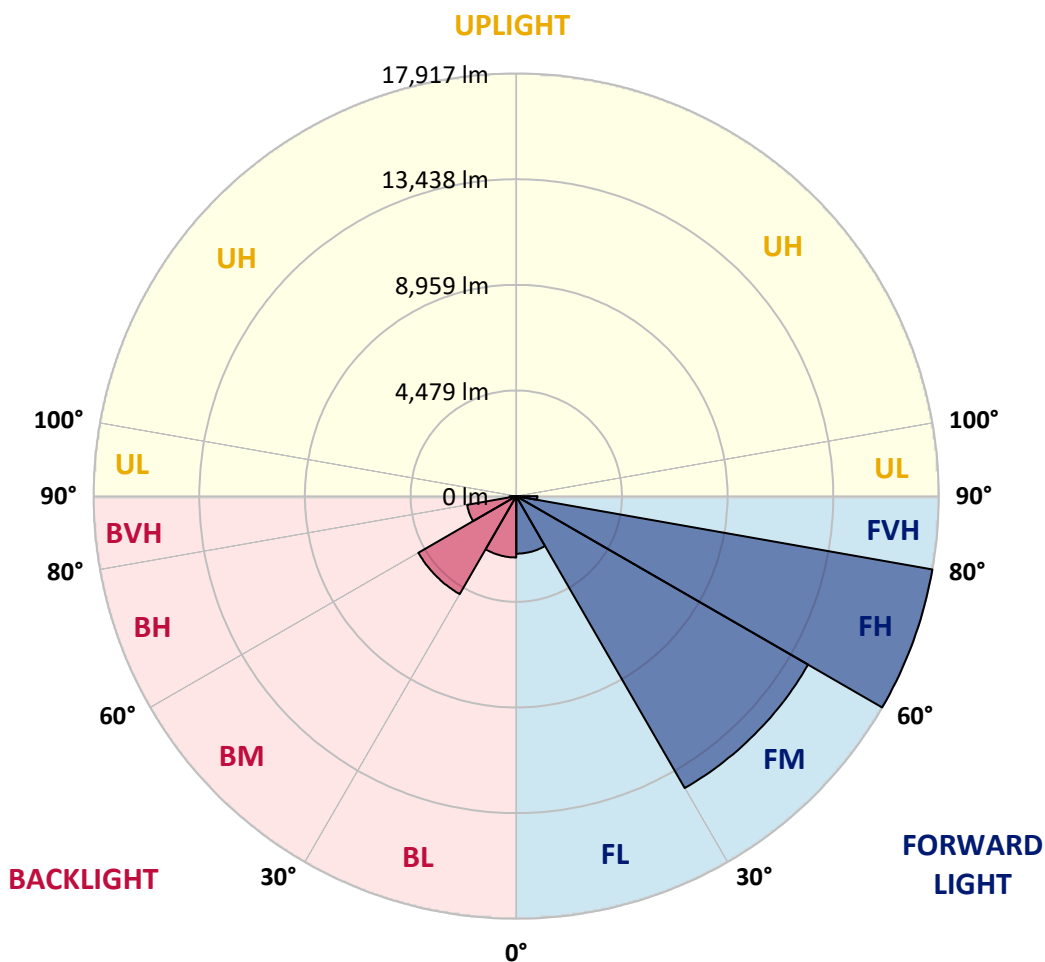
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2439.8	5.4			
FM (30°-60°)	14289.8	31.5			
FH (60°-80°)	17917.2	39.5			G5
FVH (80°-90°)	895.2	2.0			G5
BL (0°-30°)	2601.9	5.7	B4/5000		
BM (30°-60°)	4795.6	10.6	B3/5000		
BH (60°-80°)	2114.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	280.9	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5
2.5°	5823.6	5842.8	5905.1	5919.5	5986.6	5948.3	6029.7	6173.5	6255.0	6374.8	6518.6
5°	5363.5	5282.0	5320.4	5468.9	5545.6	5564.8	5651.1	5895.5	6048.9	6226.3	6494.7
7.5°	4821.9	4807.5	4884.2	4980.1	5133.4	5147.8	5339.5	5555.2	5871.6	6264.6	6581.0
10°	4452.8	4515.1	4558.3	4658.9	4764.4	4764.4	5008.8	5382.7	5742.2	6120.8	6600.1
12.5°	4433.6	4395.3	4404.9	4457.6	4534.3	4630.2	4860.2	5195.7	5651.1	6092.1	6681.6
15°	4495.9	4510.3	4424.0	4491.2	4519.9	4553.5	4807.5	5186.2	5593.6	6192.7	6820.6
17.5°	4826.7	4745.2	4611.0	4548.7	4649.3	4649.3	4821.9	5119.1	5603.2	6245.4	7021.9
20°	5085.5	5085.5	4865.0	4797.9	4869.8	4855.4	4975.3	5195.7	5651.1	6350.9	7247.2
22.5°	5521.7	5584.0	5219.7	5080.7	5075.9	5114.3	5219.7	5406.6	5785.3	6499.5	7462.9
25°	6149.6	6164.0	5742.2	5598.4	5445.0	5507.3	5526.5	5713.4	5905.1	6672.0	7707.3
27.5°	6849.4	6839.8	6451.5	6092.1	5991.4	6005.8	5900.3	6024.9	6082.5	6724.7	8057.2
30°	7625.9	7539.6	7247.2	6739.1	6657.6	6566.6	6336.5	6331.7	6451.5	7021.9	8541.3
32.5°	8133.9	8023.7	7822.4	7458.1	7232.8	7242.4	6878.1	6873.3	6767.9	7347.9	8963.1
35°	8632.4	8464.6	8411.9	8038.1	7812.8	7836.7	7544.4	7506.0	7314.3	7841.5	9658.1
37.5°	9231.5	9083.0	9164.4	8881.6	8603.6	8488.6	8354.4	8306.5	8057.2	8536.5	10607.2
40°	9893.0	9845.1	9792.3	9653.3	9485.6	9495.2	9351.4	9303.4	8934.4	9375.3	11517.9
42.5°	10784.5	10602.4	10329.2	10420.2	10506.5	10597.6	10549.7	10425.0	10041.6	10228.5	12534.0
45°	11613.7	11374.1	10870.8	10899.6	11254.2	11326.1	11906.1	11891.7	11120.0	11311.8	13689.1
47.5°	12174.5	12064.3	11762.3	11728.8	12236.8	12232.0	13276.9	13276.9	12256.0	12390.2	14930.6
50°	13008.5	12720.9	12591.5	12759.3	13018.1	13195.5	14676.5	14767.6	13372.8	13516.6	16555.4
52.5°	13986.3	13626.8	13300.9	13732.3	14192.4	14307.5	16061.7	16023.4	14230.8	14825.1	18458.3
55°	14796.4	14614.2	14388.9	14638.2	15390.7	15534.5	17451.7	17097.1	15088.7	15908.4	19373.8
57.5°	15740.6	15850.8	15898.8	15836.5	16732.8	16958.1	19038.3	18022.1	15826.9	16636.9	19910.6
60°	17164.2	17231.3	17293.6	17442.2	18391.2	18707.5	20294.1	19182.1	16291.8	17058.7	19953.8
62.5°	19330.6	19071.8	19210.8	19723.7	20485.8	20845.3	22144.2	19996.9	16646.5	17312.7	18544.6
65°	21808.7	21458.8	21315.0	21976.4	23951.2	23663.6	24454.5	20605.6	16133.6	16363.7	15726.2
67.5°	24320.3	24358.6	23989.6	25317.3	27737.8	27737.8	26601.8	20898.0	14743.6	13262.6	11029.0
70°	26314.2	26434.0	26635.4	29209.3	33043.8	33623.7	29262.0	19699.7	11910.9	8828.9	6029.7
72.5°	26285.5	25926.0	26956.5	31696.9	37865.6	37381.5	29818.0	15577.6	7434.1	4323.4	2765.6
73°	25695.9	25393.9	26520.3	31672.9	38062.2	37606.8	29410.6	14360.2	6557.0	3748.2	2458.9
75°	20984.3	20437.9	22355.1	28686.8	35215.0	35564.9	24986.5	9365.8	3594.8	2310.3	1730.3
77.5°	9567.1	9806.7	12303.9	19244.4	27138.6	27550.8	16426.0	4050.2	1970.0	1620.1	1275.0
80°	3072.4	3225.8	4788.3	9567.1	17010.8	17753.7	7592.3	1840.6	1404.4	1241.4	953.8
82.5°	1174.3	1169.5	2008.3	3978.3	8062.0	8536.5	2775.2	1121.6	1044.9	915.5	675.8
85°	412.2	431.4	757.3	1572.1	3173.0	3321.6	963.4	623.1	723.8	613.5	388.2
87.5°	143.8	148.6	268.4	570.4	1092.8	1155.1	268.4	249.2	359.5	354.7	196.5
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°	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5	6499.5
2.5°	6566.6	6609.7	6624.1	6796.6	6796.6	6796.6	6863.7	6863.7	6844.6	6796.6	6911.7
5°	6595.3	6672.0	6820.6	6969.2	7007.5	7041.1	7132.2	7055.5	7084.2	7036.3	7079.4
7.5°	6676.8	6782.3	7060.3	7151.3	7089.0	7160.9	7065.1	7012.3	6959.6	6978.8	6911.7
10°	6815.8	6950.0	7079.4	7247.2	7127.4	7055.5	6859.0	6811.0	6643.3	6585.7	6638.5
12.5°	6988.4	7151.3	7371.8	7309.5	7079.4	6873.3	6662.4	6461.1	6360.5	6216.7	6255.0
15°	7160.9	7347.9	7381.4	7276.0	6988.4	6729.5	6346.1	6063.3	5962.6	5833.2	5900.3
17.5°	7347.9	7525.2	7467.7	7194.5	6806.2	6413.2	5977.0	5699.0	5488.1	5406.6	5406.6
20°	7625.9	7712.1	7621.1	7060.3	6585.7	6068.1	5646.3	5329.9	5119.1	5085.5	5032.8
22.5°	7841.5	7980.5	7573.1	6863.7	6264.6	5617.5	5133.4	5013.6	4951.3	4898.6	4831.5
25°	8119.5	8114.7	7486.9	6681.6	5713.4	5080.7	4788.3	4778.7	4750.0	4730.8	4821.9
27.5°	8383.2	8272.9	7386.2	6231.1	5143.0	4673.3	4515.1	4620.6	4663.7	4634.9	4673.3
30°	8800.2	8618.0	7242.4	5751.7	4639.7	4261.1	4289.8	4433.6	4505.5	4548.7	4491.2
32.5°	9241.1	8963.1	6945.2	5253.3	4194.0	4002.3	4069.4	4217.9	4304.2	4352.2	4404.9
35°	9878.6	9231.5	6643.3	4601.4	3872.8	3844.1	3882.4	3963.9	4088.5	4122.1	4136.5
37.5°	10664.7	9639.0	6235.8	4078.9	3623.6	3657.1	3695.5	3724.3	3729.0	3791.4	3767.4
40°	11450.8	9984.1	5641.5	3580.5	3364.8	3546.9	3527.7	3475.0	3431.9	3374.4	3360.0
42.5°	12141.0	10286.0	4980.1	3158.7	3134.7	3431.9	3369.6	3235.4	3134.7	3091.6	3019.7
45°	12917.5	10712.6	4313.8	2895.0	2957.4	3292.9	3273.7	3067.6	2938.2	2784.8	2765.6
47.5°	13924.0	11158.4	3676.3	2621.8	2789.6	3240.1	3249.7	2986.1	2799.2	2593.1	2564.3
50°	15213.4	11800.7	3192.2	2506.8	2688.9	3163.5	3177.8	2875.9	2631.4	2420.5	2401.4
52.5°	16450.0	12457.3	2789.6	2329.5	2621.8	3072.4	3105.9	2775.2	2492.4	2228.8	2243.2
55°	17073.1	12217.7	2444.5	2200.0	2468.5	2923.8	3048.4	2703.3	2281.5	2099.4	2094.6
57.5°	17212.1	11628.1	2171.3	2065.8	2339.0	2765.6	2952.6	2487.6	2185.7	2032.3	2013.1
60°	16756.7	10597.6	1955.6	1922.0	2176.1	2602.7	2732.1	2372.6	2089.8	1965.2	1936.4
62.5°	15635.2	9528.7	1807.0	1854.9	2037.1	2425.3	2593.1	2291.1	1998.7	1912.5	1850.1
65°	12821.6	7836.7	1687.2	1725.5	1893.3	2252.8	2506.8	2200.0	1917.2	1835.8	1831.0
67.5°	8881.6	5401.8	1591.3	1663.2	1778.2	2128.1	2420.5	2099.4	1811.8	1783.0	1744.7
70°	4548.7	2880.7	1466.7	1524.2	1653.6	1970.0	2267.1	1993.9	1701.6	1696.8	1648.8
72.5°	2305.5	1687.2	1322.9	1409.2	1500.2	1763.9	2075.4	1854.9	1562.6	1509.8	1433.1
73°	1993.9	1562.6	1298.9	1375.6	1461.9	1706.4	2017.9	1821.4	1543.4	1466.7	1394.8
75°	1452.3	1231.8	1164.7	1241.4	1308.5	1538.6	1826.2	1668.0	1418.8	1337.3	1270.2
77.5°	1088.0	949.0	968.2	1054.5	1112.0	1327.7	1624.9	1509.8	1284.6	1174.3	1145.6
80°	800.5	723.8	800.5	881.9	925.1	1169.5	1481.1	1308.5	1083.2	958.6	934.7
82.5°	570.4	527.2	618.3	671.0	690.2	968.2	1332.5	1044.9	819.6	656.7	603.9
85°	325.9	321.1	417.0	412.2	426.6	565.6	877.1	695.0	527.2	402.6	393.0
87.5°	143.8	158.2	210.9	167.8	177.3	268.4	373.9	258.8	215.7	119.8	91.1
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)