

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: P478072

Luminaire Tested: **IFLD-L-SA8D-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478072  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-727-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

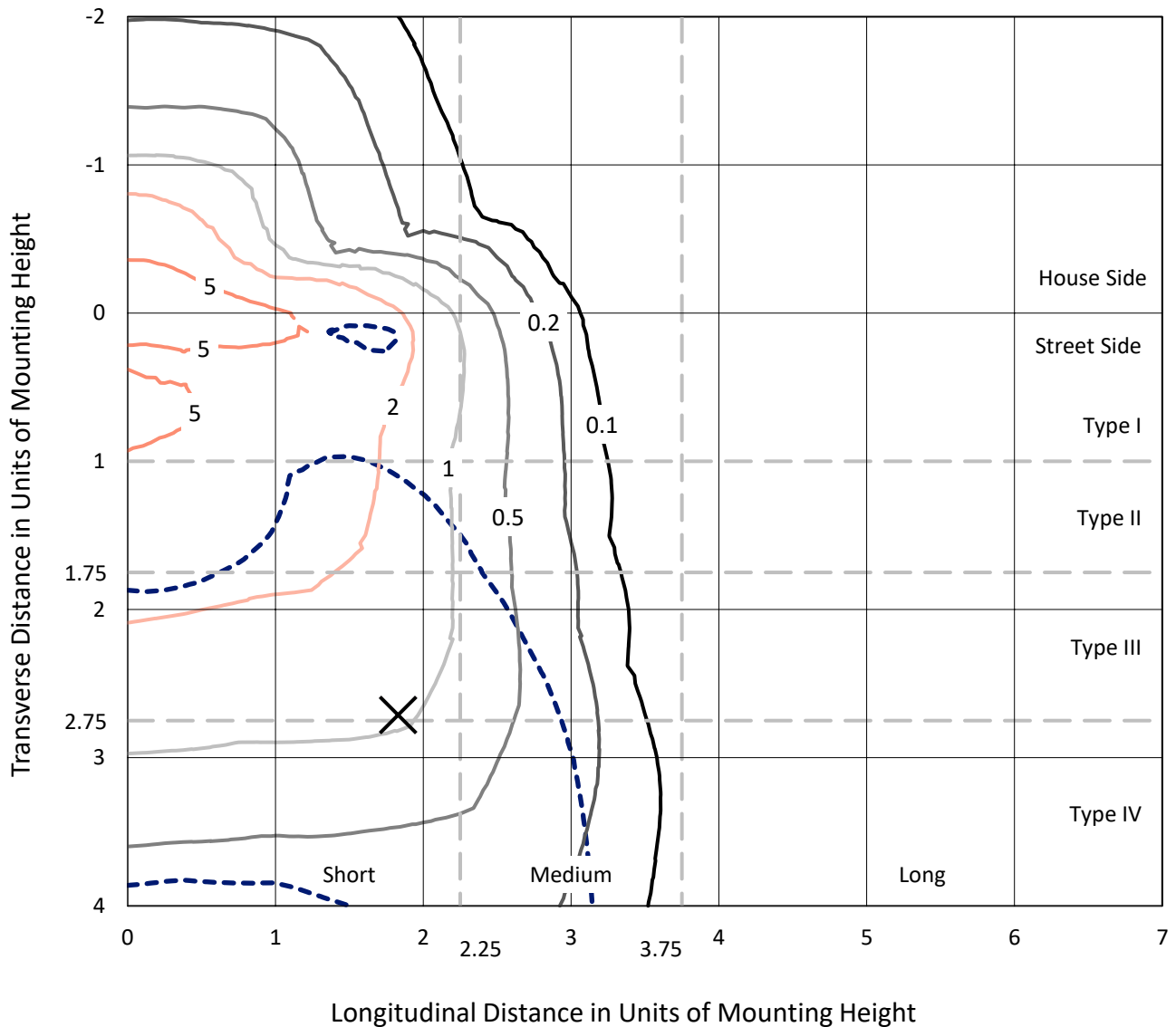
Lumens per Lamp: N/A  
Luminaire Lumens: 47763.6 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3  
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

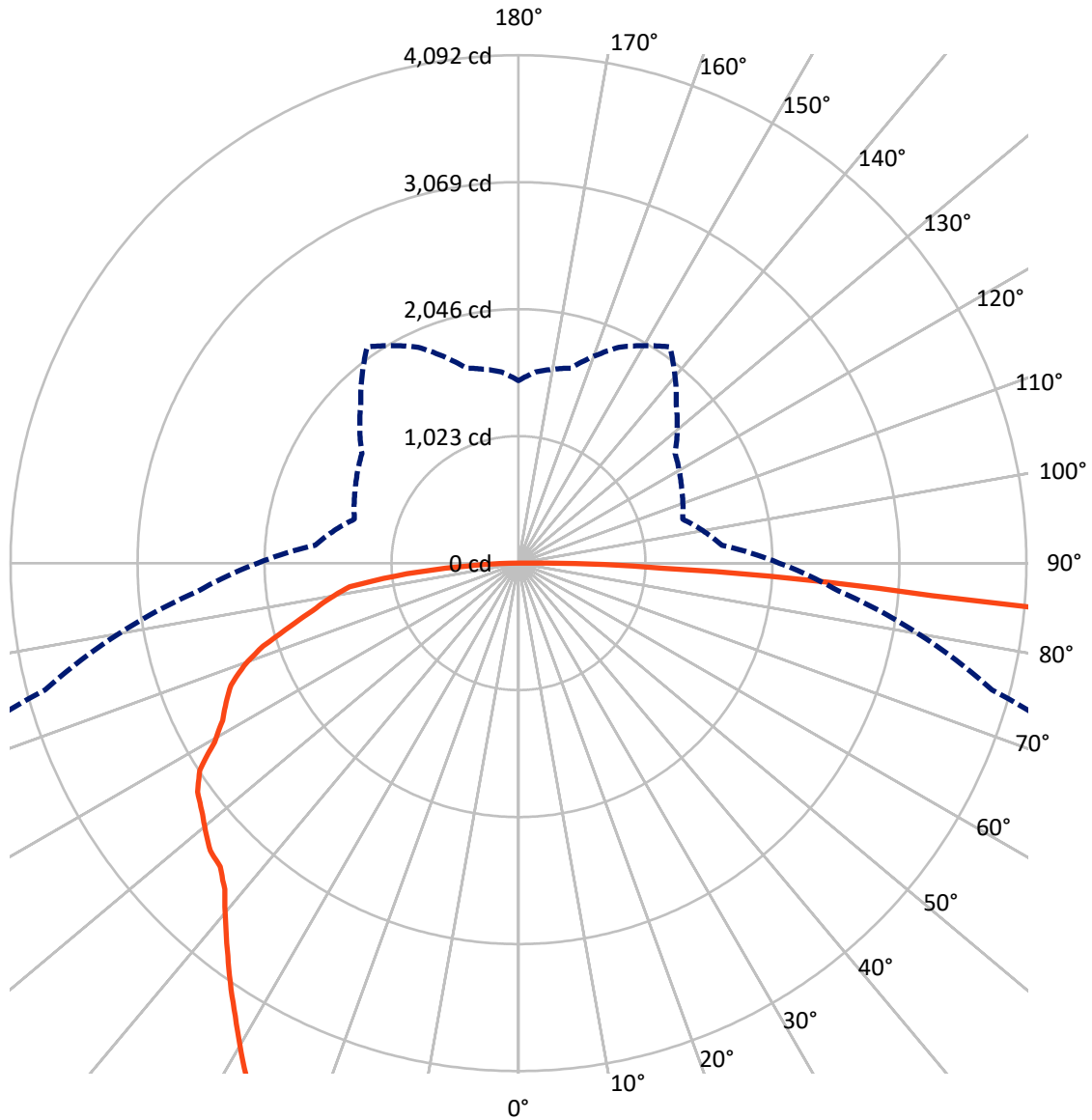
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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	10317.5	0.0	10317.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	37446.1	0.0	37446.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	47763.6	0.0	47763.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.0	1.3
10°-20°	1768.7	3.7
20°-30°	2911.1	6.1
30°-40°	4353.5	9.1
40°-50°	6453.8	13.5
50°-60°	9300.6	19.5
60°-70°	11868.9	24.8
70°-80°	9236.0	19.3
80°-90°	1239.0	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°	47763.6	100.0
0°-180°	47763.6	100.0

**Coefficient of Utilization**



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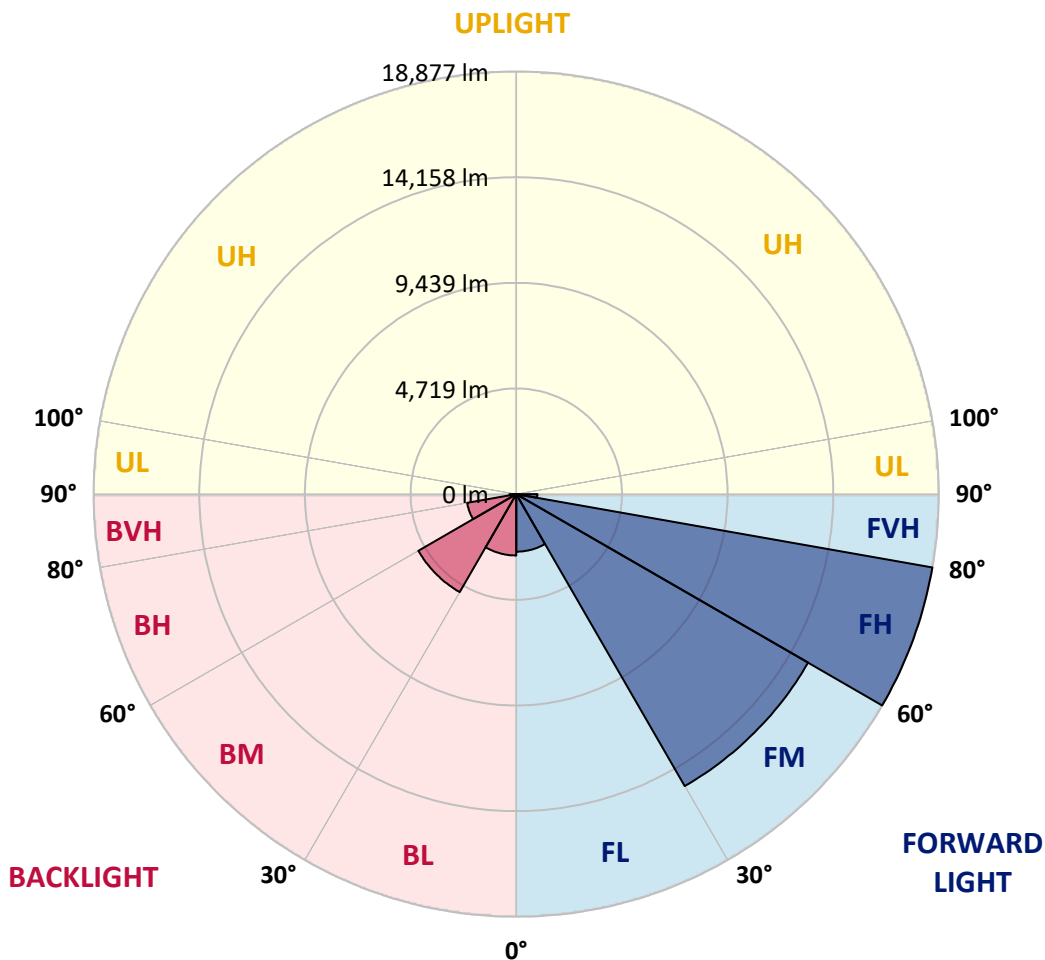
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2570.5	5.4			
FM (30°-60°)	15055.4	31.5			
FH (60°-80°)	18877.0	39.5			G5
FVH (80°-90°)	943.1	2.0			G5
BL (0°-30°)	2741.3	5.7	B4/5000		
BM (30°-60°)	5052.5	10.6	B4/8500		
BH (60°-80°)	2227.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	295.9	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°	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7
2.5°	6135.6	6155.8	6221.5	6236.6	6307.3	6266.9	6352.8	6504.3	6590.1	6716.4	6867.9
5°	5650.8	5565.0	5605.4	5761.9	5842.7	5862.9	5953.8	6211.4	6373.0	6559.8	6842.6
7.5°	5080.2	5065.0	5145.8	5246.8	5408.4	5423.6	5625.6	5852.8	6186.1	6600.2	6933.5
10°	4691.4	4757.0	4802.5	4908.5	5019.6	5019.6	5277.1	5671.0	6049.8	6448.7	6953.7
12.5°	4671.2	4630.8	4640.9	4696.4	4777.2	4878.2	5120.6	5474.1	5953.8	6418.4	7039.6
15°	4736.8	4752.0	4661.1	4731.8	4762.1	4797.4	5065.0	5464.0	5893.2	6524.5	7186.0
17.5°	5085.2	4999.4	4858.0	4792.4	4898.4	4898.4	5080.2	5393.3	5903.3	6580.0	7398.1
20°	5357.9	5357.9	5125.6	5054.9	5130.7	5115.5	5241.8	5474.1	5953.8	6691.1	7635.4
22.5°	5817.5	5883.1	5499.3	5352.9	5347.8	5388.2	5499.3	5696.3	6095.2	6847.7	7862.7
25°	6479.0	6494.2	6049.8	5898.3	5736.7	5802.3	5822.5	6019.5	6221.5	7029.5	8120.2
27.5°	7216.3	7206.2	6797.2	6418.4	6312.4	6327.5	6216.4	6347.7	6408.3	7085.0	8488.9
30°	8034.4	7943.5	7635.4	7100.2	7014.3	6918.4	6676.0	6670.9	6797.2	7398.1	8998.9
32.5°	8569.7	8453.5	8241.4	7857.6	7620.3	7630.4	7246.6	7241.6	7130.5	7741.5	9443.3
35°	9094.9	8918.1	8862.6	8468.7	8231.3	8256.6	7948.5	7908.1	7706.1	8261.6	10175.5
37.5°	9726.1	9569.6	9655.4	9357.5	9064.6	8943.4	8802.0	8751.5	8488.9	8993.9	11175.4
40°	10423.0	10372.5	10316.9	10170.5	9993.7	10003.8	9852.3	9801.9	9413.0	9877.6	12134.9
42.5°	11362.3	11170.4	10882.5	10978.5	11069.4	11165.3	11114.8	10983.5	10579.5	10776.5	13205.5
45°	12235.9	11983.4	11453.2	11483.5	11857.2	11932.9	12543.9	12528.8	11715.8	11917.8	14422.5
47.5°	12826.7	12710.6	12392.4	12357.1	12892.4	12887.3	13988.2	13988.2	12912.6	13054.0	15730.4
50°	13705.4	13402.4	13266.1	13442.8	13715.5	13902.4	15462.8	15558.7	14089.2	14240.7	17442.3
52.5°	14735.6	14356.9	14013.5	14468.0	14952.7	15073.9	16922.2	16881.8	14993.1	15619.3	19447.2
55°	15589.0	15397.1	15159.8	15422.4	16215.2	16366.7	18386.7	18013.0	15897.1	16760.6	20411.7
57.5°	16583.9	16700.0	16750.5	16684.9	17629.2	17866.5	20058.2	18987.6	16674.8	17528.2	20977.3
60°	18083.7	18154.4	18220.0	18376.6	19376.5	19709.7	21381.3	20209.7	17164.6	17972.6	21022.7
62.5°	20366.2	20093.5	20240.0	20780.3	21583.3	21962.0	23330.5	21068.2	17538.3	18240.2	19538.1
65°	22977.0	22608.4	22456.9	23153.8	25234.3	24931.3	25764.6	21709.5	16998.0	17240.3	16568.7
67.5°	25623.2	25663.6	25274.7	26673.6	29223.8	29223.8	28026.9	22017.6	15533.5	13973.1	11619.8
70°	27723.9	27850.2	28062.3	30774.1	34814.0	35425.0	30829.6	20755.1	12549.0	9301.9	6352.8
72.5°	27693.6	27314.9	28400.6	33395.0	39894.2	39384.1	31415.4	16412.2	7832.4	4555.0	2913.8
73°	27072.5	26754.4	27941.1	33369.7	40101.2	39621.5	30986.2	15129.5	6908.3	3949.0	2590.6
75°	22108.5	21532.8	23552.7	30223.6	37101.6	37470.2	26325.1	9867.5	3787.4	2434.1	1823.0
77.5°	10079.6	10332.1	12963.1	20275.3	28592.5	29026.8	17306.0	4267.2	2075.5	1706.9	1343.3
80°	3237.0	3398.6	5044.8	10079.6	17922.1	18704.8	7999.0	1939.2	1479.6	1307.9	1004.9
82.5°	1237.2	1232.2	2115.9	4191.4	8493.9	8993.9	2923.9	1181.7	1100.9	964.5	712.0
85°	434.3	454.5	797.9	1656.4	3343.0	3499.6	1015.0	656.5	762.5	646.4	409.0
87.5°	151.5	156.5	282.8	600.9	1151.4	1217.0	282.8	262.6	378.7	373.7	207.0
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°	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7	6847.7
2.5°	6918.4	6963.8	6979.0	7160.8	7160.8	7160.8	7231.5	7231.5	7211.3	7160.8	7282.0
5°	6948.7	7029.5	7186.0	7342.6	7382.9	7418.3	7514.2	7433.4	7463.7	7413.2	7458.7
7.5°	7034.5	7145.6	7438.5	7534.4	7468.8	7544.5	7443.5	7388.0	7332.5	7352.7	7282.0
10°	7181.0	7322.4	7458.7	7635.4	7509.2	7433.4	7226.4	7175.9	6999.2	6938.6	6994.1
12.5°	7362.8	7534.4	7766.7	7701.1	7458.7	7241.6	7019.4	6807.3	6701.2	6549.7	6590.1
15°	7544.5	7741.5	7776.8	7665.7	7362.8	7090.1	6686.1	6388.1	6282.1	6145.7	6216.4
17.5°	7741.5	7928.3	7867.7	7579.9	7170.9	6756.8	6297.2	6004.3	5782.1	5696.3	5696.3
20°	8034.4	8125.3	8029.3	7438.5	6938.6	6393.2	5948.8	5615.5	5393.3	5357.9	5302.4
22.5°	8261.6	8408.1	7978.8	7231.5	6600.2	5918.5	5408.4	5282.2	5216.5	5161.0	5090.3
25°	8554.5	8549.5	7887.9	7039.6	6019.5	5352.9	5044.8	5034.7	5004.4	4984.2	5080.2
27.5°	8832.3	8716.1	7781.9	6564.9	5418.5	4923.6	4757.0	4868.1	4913.6	4883.3	4923.6
30°	9271.6	9079.7	7630.4	6059.9	4888.3	4489.4	4519.7	4671.2	4746.9	4792.4	4731.8
32.5°	9736.2	9443.3	7317.3	5534.7	4418.7	4216.7	4287.4	4443.9	4534.8	4585.3	4640.9
35°	10407.8	9726.1	6999.2	4847.9	4080.3	4050.0	4090.4	4176.3	4307.6	4342.9	4358.1
37.5°	11236.0	10155.3	6569.9	4297.5	3817.7	3853.1	3893.5	3923.8	3928.8	3994.5	3969.2
40°	12064.2	10518.9	5943.7	3772.3	3545.0	3736.9	3716.7	3661.2	3615.7	3555.1	3540.0
42.5°	12791.4	10837.1	5246.8	3327.9	3302.6	3615.7	3550.1	3408.7	3302.6	3257.2	3181.4
45°	13609.5	11286.5	4544.9	3050.1	3115.8	3469.3	3449.1	3231.9	3095.6	2934.0	2913.8
47.5°	14670.0	11756.2	3873.3	2762.3	2939.0	3413.7	3423.8	3146.1	2949.1	2732.0	2701.7
50°	16028.4	12432.8	3363.2	2641.1	2833.0	3332.9	3348.1	3029.9	2772.4	2550.2	2530.0
52.5°	17331.2	13124.7	2939.0	2454.3	2762.3	3237.0	3272.3	2923.9	2625.9	2348.2	2363.4
55°	17987.7	12872.2	2575.4	2317.9	2600.7	3080.4	3211.7	2848.1	2403.8	2211.9	2206.8
57.5°	18134.2	12251.1	2287.6	2176.5	2464.3	2913.8	3110.7	2620.9	2302.8	2141.2	2121.0
60°	17654.4	11165.3	2060.4	2025.0	2292.7	2742.1	2878.4	2499.7	2201.8	2070.5	2040.2
62.5°	16472.8	10039.2	1903.8	1954.3	2146.2	2555.2	2732.0	2413.9	2105.8	2014.9	1949.3
65°	13508.5	8256.6	1777.6	1818.0	1994.7	2373.5	2641.1	2317.9	2020.0	1934.1	1929.1
67.5°	9357.5	5691.2	1676.6	1752.3	1873.5	2242.2	2550.2	2211.9	1908.9	1878.6	1838.2
70°	4792.4	3035.0	1545.3	1605.9	1742.2	2075.5	2388.6	2100.8	1792.7	1787.7	1737.2
72.5°	2429.0	1777.6	1393.8	1484.7	1580.6	1858.4	2186.6	1954.3	1646.3	1590.7	1509.9
73°	2100.8	1646.3	1368.5	1449.3	1540.2	1797.8	2126.0	1919.0	1626.1	1545.3	1469.5
75°	1530.1	1297.8	1227.1	1307.9	1378.6	1621.0	1924.0	1757.4	1494.8	1408.9	1338.2
77.5°	1146.3	999.9	1020.1	1111.0	1171.6	1398.8	1711.9	1590.7	1353.4	1237.2	1206.9
80°	843.3	762.5	843.3	929.2	974.6	1232.2	1560.4	1378.6	1141.3	1010.0	984.7
82.5°	600.9	555.5	651.4	707.0	727.2	1020.1	1403.9	1100.9	863.5	691.8	636.3
85°	343.4	338.3	439.3	434.3	449.4	595.9	924.1	732.2	555.5	424.2	414.1
87.5°	151.5	166.6	222.2	176.7	186.8	282.8	393.9	272.7	227.2	126.2	95.9
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)