

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: P478028

Luminaire Tested: **IFLD-L-SA7D-722-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478028  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-722-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

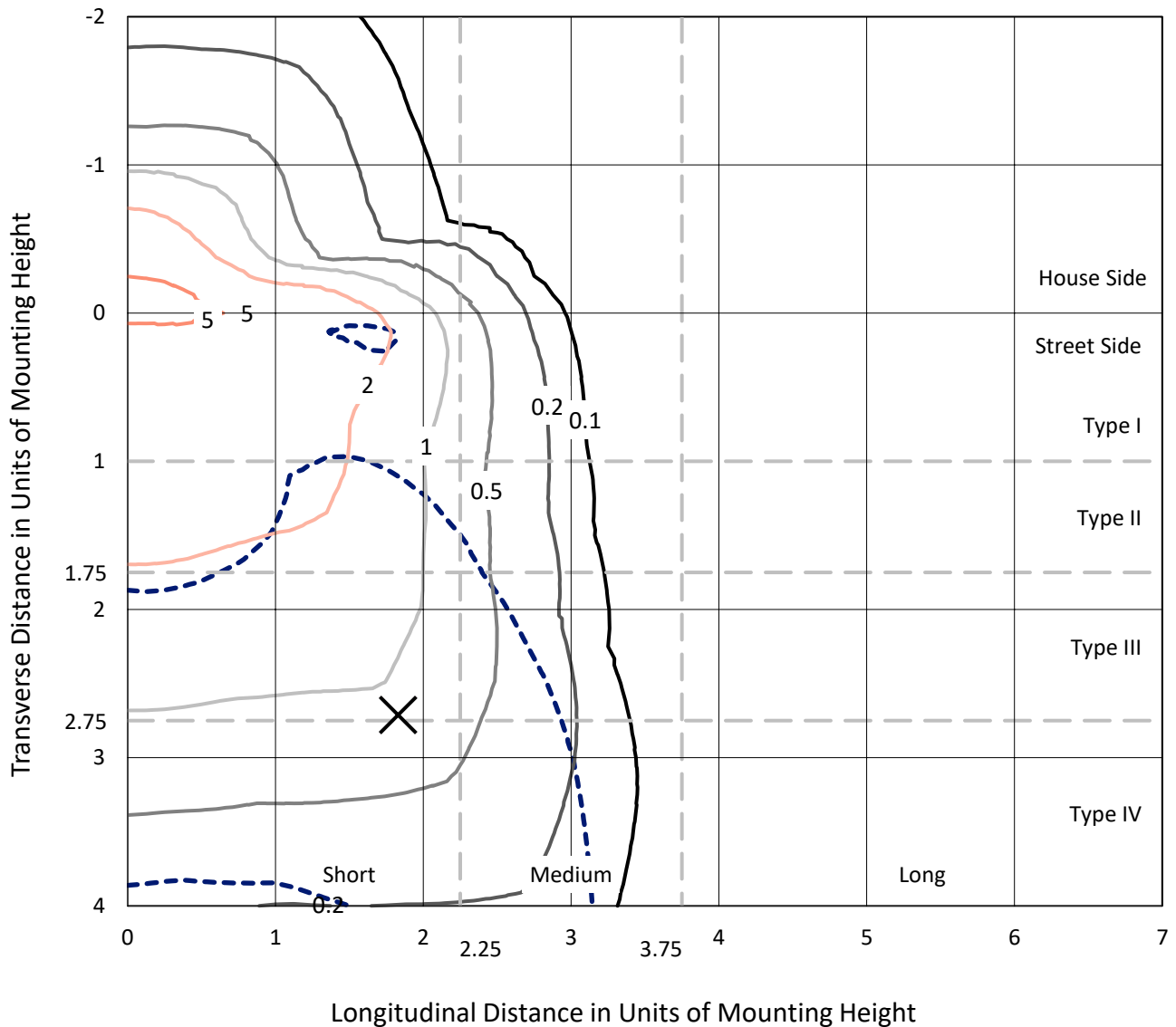
Lumens per Lamp: N/A  
Luminaire Lumens: 36810.6 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

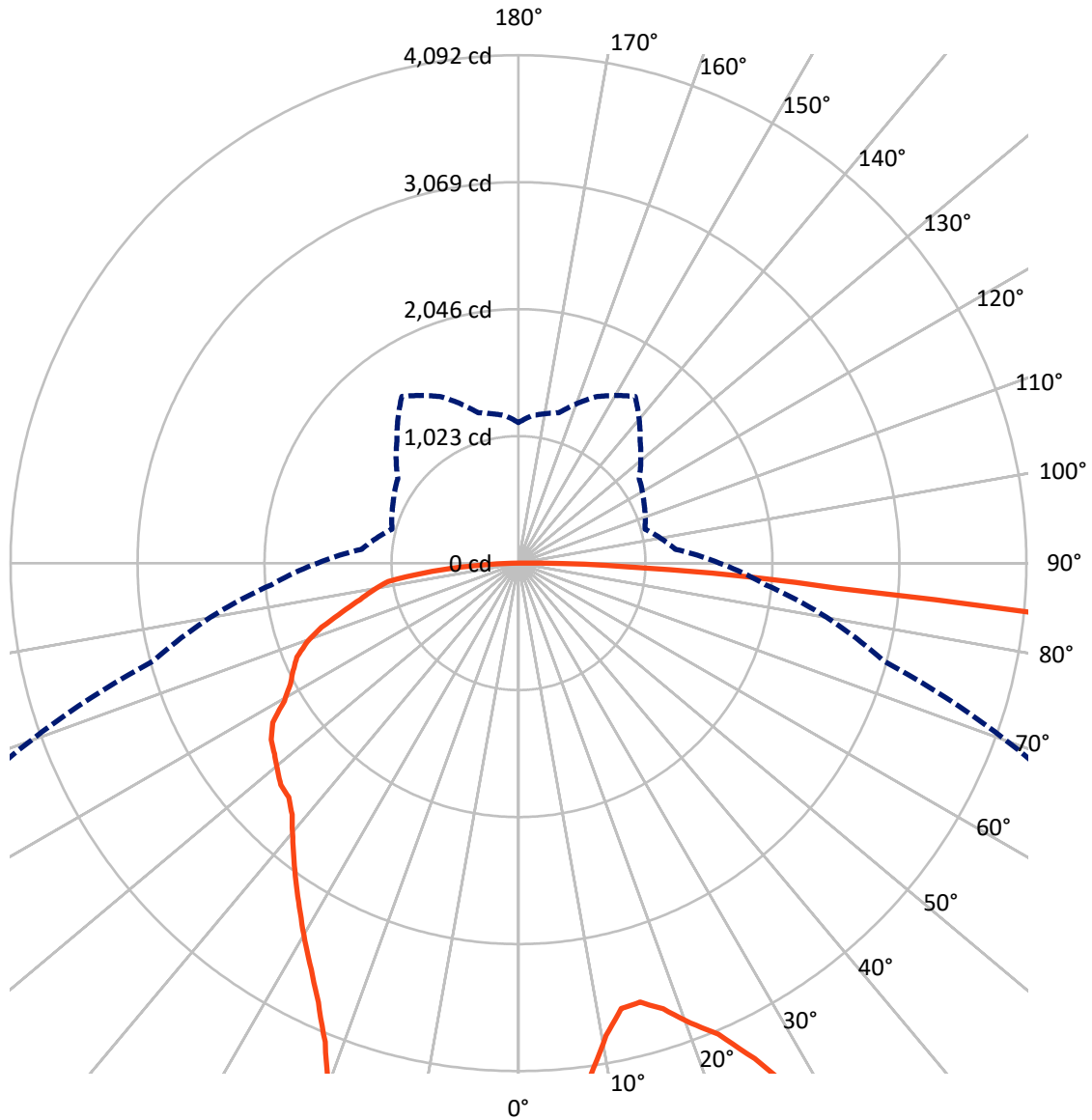
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P478028  
CATALOG NUMBER: IFLD-L-SA7D-722-U-T4FT

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P478028

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7951.6	0.0	7951.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	28859.1	0.0	28859.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	36810.6	0.0	36810.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.1	1.3
10°-20°	1363.1	3.7
20°-30°	2243.5	6.1
30°-40°	3355.1	9.1
40°-50°	4973.9	13.5
50°-60°	7167.9	19.5
60°-70°	9147.2	24.8
70°-80°	7118.0	19.3
80°-90°	954.9	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°	36810.6	100.0
0°-180°	36810.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478028

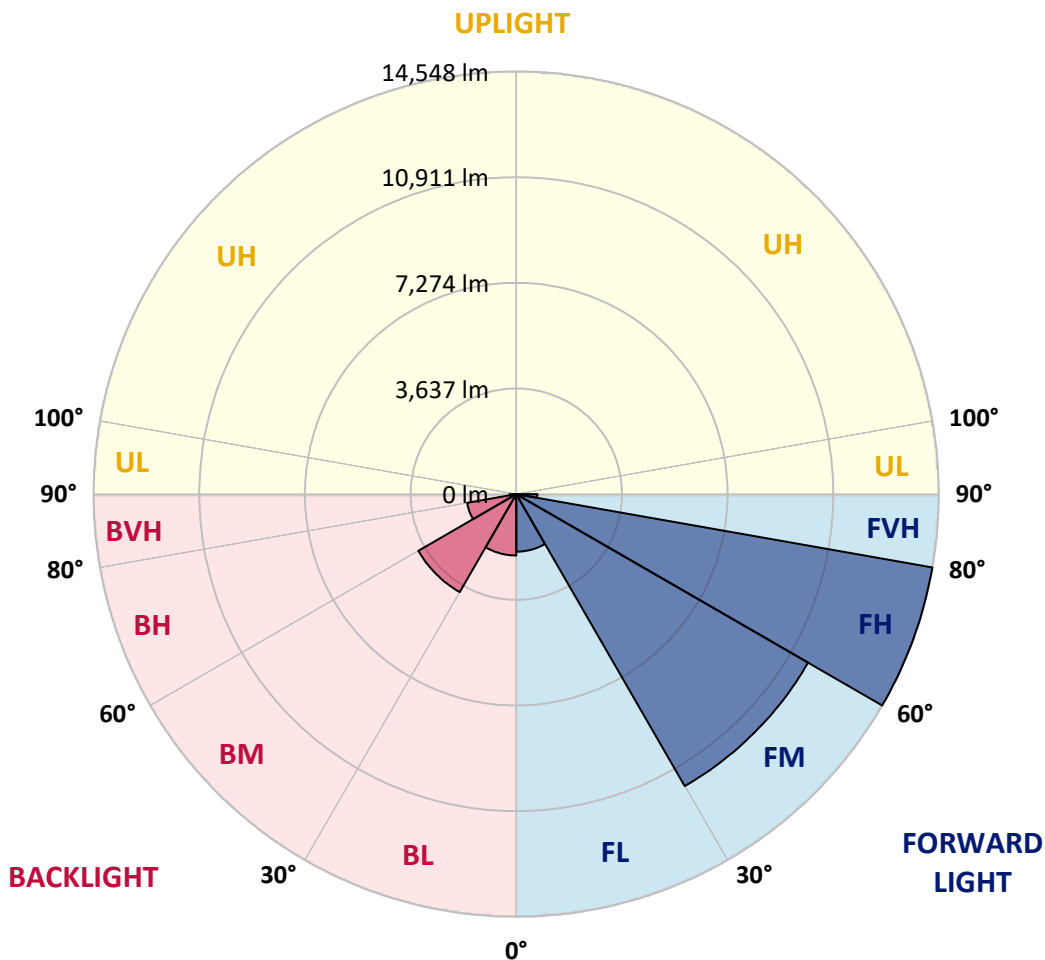
CATALOG NUMBER: IFLD-L-SA7D-722-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1981.0	5.4			
FM (30°-60°)	11602.9	31.5			
FH (60°-80°)	14548.2	39.5			G5
FVH (80°-90°)	726.9	2.0			G4/750
BL (0°-30°)	2112.7	5.7	B3/2500		
BM (30°-60°)	3893.9	10.6	B3/5000		
BH (60°-80°)	1716.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	228.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P478028  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4
2.5°	4728.6	4744.2	4794.8	4806.5	4861.0	4829.8	4896.0	5012.7	5078.9	5176.2	5293.0
5°	4355.0	4288.8	4320.0	4440.6	4502.9	4518.5	4588.5	4787.0	4911.5	5055.5	5273.5
7.5°	3915.2	3903.6	3965.8	4043.7	4168.2	4179.9	4335.6	4510.7	4767.5	5086.7	5343.5
10°	3615.6	3666.1	3701.2	3782.9	3868.5	3868.5	4067.0	4370.6	4662.5	4969.9	5359.1
12.5°	3600.0	3568.9	3576.6	3619.4	3681.7	3759.6	3946.4	4218.8	4588.5	4946.6	5425.3
15°	3650.6	3662.3	3592.2	3646.7	3670.0	3697.3	3903.6	4211.0	4541.8	5028.3	5538.1
17.5°	3919.1	3853.0	3744.0	3693.4	3775.1	3775.1	3915.2	4156.5	4549.6	5071.1	5701.6
20°	4129.3	4129.3	3950.3	3895.8	3954.1	3942.5	4039.8	4218.8	4588.5	5156.7	5884.5
22.5°	4483.4	4534.0	4238.3	4125.4	4121.5	4152.6	4238.3	4390.0	4697.5	5277.4	6059.7
25°	4993.3	5005.0	4662.5	4545.7	4421.2	4471.8	4487.3	4639.1	4794.8	5417.5	6258.1
27.5°	5561.5	5553.7	5238.5	4946.6	4864.8	4876.5	4790.9	4892.1	4938.8	5460.3	6542.2
30°	6192.0	6121.9	5884.5	5472.0	5405.8	5331.9	5145.1	5141.2	5238.5	5701.6	6935.3
32.5°	6604.5	6515.0	6351.5	6055.8	5872.8	5880.6	5584.8	5581.0	5495.3	5966.2	7277.8
35°	7009.3	6873.1	6830.2	6526.7	6343.8	6363.2	6125.8	6094.7	5939.0	6367.1	7842.1
37.5°	7495.8	7375.1	7441.3	7211.6	6985.9	6892.5	6783.5	6744.6	6542.2	6931.4	8612.7
40°	8032.8	7993.9	7951.1	7838.2	7702.0	7709.8	7593.1	7554.1	7254.5	7612.5	9352.2
42.5°	8756.7	8608.8	8387.0	8460.9	8531.0	8604.9	8566.0	8464.8	8153.5	8305.3	10177.3
45°	9430.0	9235.4	8826.8	8850.1	9138.1	9196.5	9667.4	9655.7	9029.2	9184.8	11115.2
47.5°	9885.4	9795.9	9550.7	9523.4	9936.0	9932.1	10780.5	10780.5	9951.5	10060.5	12123.2
50°	10562.6	10329.0	10224.0	10360.2	10570.3	10714.3	11916.9	11990.9	10858.3	10975.1	13442.5
52.5°	11356.5	11064.6	10800.0	11150.2	11523.8	11617.3	13041.7	13010.5	11555.0	12037.6	14987.6
55°	12014.2	11866.3	11683.4	11885.8	12496.8	12613.6	14170.3	13882.3	12251.6	12917.1	15731.0
57.5°	12780.9	12870.4	12909.4	12858.8	13586.5	13769.5	15458.5	14633.5	12851.0	13508.7	16166.9
60°	13936.8	13991.3	14041.9	14162.5	14933.1	15190.0	16478.2	15575.3	13228.5	13851.2	16201.9
62.5°	15695.9	15485.8	15598.6	16015.1	16633.9	16925.8	17980.5	16236.9	13516.5	14057.5	15057.7
65°	17708.0	17423.9	17307.2	17844.3	19447.7	19214.2	19856.4	16731.2	13100.1	13286.9	12769.2
67.5°	19747.4	19778.5	19478.8	20556.9	22522.3	22522.3	21599.9	16968.6	11971.4	10768.8	8955.2
70°	21366.4	21463.7	21627.2	23717.1	26830.6	27301.5	23759.9	15995.6	9671.3	7168.8	4896.0
72.5°	21343.1	21051.2	21887.9	25737.0	30745.8	30352.8	24211.4	12648.6	6036.3	3510.5	2245.6
73°	20864.4	20619.2	21533.8	25717.5	30905.4	30535.7	23880.6	11660.1	5324.1	3043.4	1996.5
75°	17038.6	16595.0	18151.7	23292.9	28593.6	28877.7	20288.4	7604.7	2918.9	1875.9	1405.0
77.5°	7768.2	7962.8	9990.4	15625.9	22035.8	22370.5	13337.5	3288.6	1599.6	1315.5	1035.2
80°	2494.7	2619.2	3888.0	7768.2	13812.3	14415.5	6164.7	1494.5	1140.3	1008.0	774.5
82.5°	953.5	949.6	1630.7	3230.3	6546.1	6931.4	2253.4	910.7	848.4	743.3	548.8
85°	334.7	350.3	614.9	1276.5	2576.4	2697.1	782.3	505.9	587.7	498.2	315.2
87.5°	116.8	120.6	217.9	463.1	887.3	937.9	217.9	202.4	291.9	288.0	159.6
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-SA7D-722-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4
2.5°	5331.9	5366.9	5378.6	5518.7	5518.7	5518.7	5573.2	5573.2	5557.6	5518.7	5612.1
5°	5355.2	5417.5	5538.1	5658.8	5689.9	5717.2	5791.1	5728.8	5752.2	5713.3	5748.3
7.5°	5421.4	5507.0	5732.7	5806.7	5756.1	5814.5	5736.6	5693.8	5651.0	5666.6	5612.1
10°	5534.2	5643.2	5748.3	5884.5	5787.2	5728.8	5569.3	5530.4	5394.1	5347.4	5390.3
12.5°	5674.4	5806.7	5985.7	5935.1	5748.3	5581.0	5409.7	5246.3	5164.5	5047.8	5078.9
15°	5814.5	5966.2	5993.5	5907.9	5674.4	5464.2	5152.8	4923.2	4841.5	4736.4	4790.9
17.5°	5966.2	6110.2	6063.5	5841.7	5526.5	5207.3	4853.2	4627.4	4456.2	4390.0	4390.0
20°	6192.0	6262.0	6188.1	5732.7	5347.4	4927.1	4584.6	4327.8	4156.5	4129.3	4086.5
22.5°	6367.1	6480.0	6149.2	5573.2	5086.7	4561.3	4168.2	4070.9	4020.3	3977.5	3923.0
25°	6592.8	6588.9	6079.1	5425.3	4639.1	4125.4	3888.0	3880.2	3856.9	3841.3	3915.2
27.5°	6806.9	6717.4	5997.4	5059.4	4176.0	3794.6	3666.1	3751.8	3786.8	3763.4	3794.6
30°	7145.5	6997.6	5880.6	4670.3	3767.3	3459.9	3483.2	3600.0	3658.4	3693.4	3646.7
32.5°	7503.5	7277.8	5639.3	4265.5	3405.4	3249.7	3304.2	3424.9	3494.9	3533.8	3576.6
35°	8021.2	7495.8	5394.1	3736.2	3144.6	3121.3	3152.4	3218.6	3319.8	3347.0	3358.7
37.5°	8659.4	7826.6	5063.3	3312.0	2942.3	2969.5	3000.6	3024.0	3027.9	3078.5	3059.0
40°	9297.7	8106.8	4580.7	2907.2	2732.1	2880.0	2864.4	2821.6	2786.6	2739.9	2728.2
42.5°	9858.1	8352.0	4043.7	2564.7	2545.3	2786.6	2736.0	2627.0	2545.3	2510.3	2451.9
45°	10488.6	8698.3	3502.7	2350.7	2401.3	2673.7	2658.2	2490.8	2385.7	2261.2	2245.6
47.5°	11305.9	9060.3	2985.1	2128.9	2265.1	2630.9	2638.7	2424.6	2272.9	2105.5	2082.2
50°	12352.8	9581.8	2592.0	2035.5	2183.3	2568.6	2580.3	2335.1	2136.6	1965.4	1949.8
52.5°	13356.9	10115.0	2265.1	1891.5	2128.9	2494.7	2521.9	2253.4	2023.8	1809.7	1821.4
55°	13862.9	9920.4	1984.9	1786.4	2004.3	2374.0	2475.2	2195.0	1852.5	1704.6	1700.8
57.5°	13975.7	9441.7	1763.0	1677.4	1899.2	2245.6	2397.4	2019.9	1774.7	1650.2	1634.6
60°	13606.0	8604.9	1587.9	1560.6	1766.9	2113.3	2218.4	1926.5	1696.9	1595.7	1572.3
62.5°	12695.3	7737.1	1467.2	1506.2	1654.0	1969.3	2105.5	1860.3	1622.9	1552.9	1502.3
65°	10410.8	6363.2	1369.9	1401.1	1537.3	1829.2	2035.5	1786.4	1556.8	1490.6	1486.7
67.5°	7211.6	4386.1	1292.1	1350.5	1443.9	1728.0	1965.4	1704.6	1471.1	1447.8	1416.6
70°	3693.4	2339.0	1190.9	1237.6	1342.7	1599.6	1840.9	1619.0	1381.6	1377.7	1338.8
72.5°	1872.0	1369.9	1074.2	1144.2	1218.2	1432.2	1685.2	1506.2	1268.8	1225.9	1163.7
73°	1619.0	1268.8	1054.7	1117.0	1187.0	1385.5	1638.5	1478.9	1253.2	1190.9	1132.5
75°	1179.2	1000.2	945.7	1008.0	1062.5	1249.3	1482.8	1354.4	1152.0	1085.8	1031.3
77.5°	883.5	770.6	786.2	856.2	902.9	1078.1	1319.3	1225.9	1043.0	953.5	930.2
80°	649.9	587.7	649.9	716.1	751.1	949.6	1202.6	1062.5	879.6	778.4	758.9
82.5°	463.1	428.1	502.1	544.9	560.4	786.2	1081.9	848.4	665.5	533.2	490.4
85°	264.6	260.8	338.6	334.7	346.4	459.2	712.2	564.3	428.1	326.9	319.1
87.5°	116.8	128.4	171.2	136.2	144.0	217.9	303.6	210.2	175.1	97.3	73.9
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)