

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: P478108

Luminaire Tested: **IFLD-L-SA8A-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478108
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

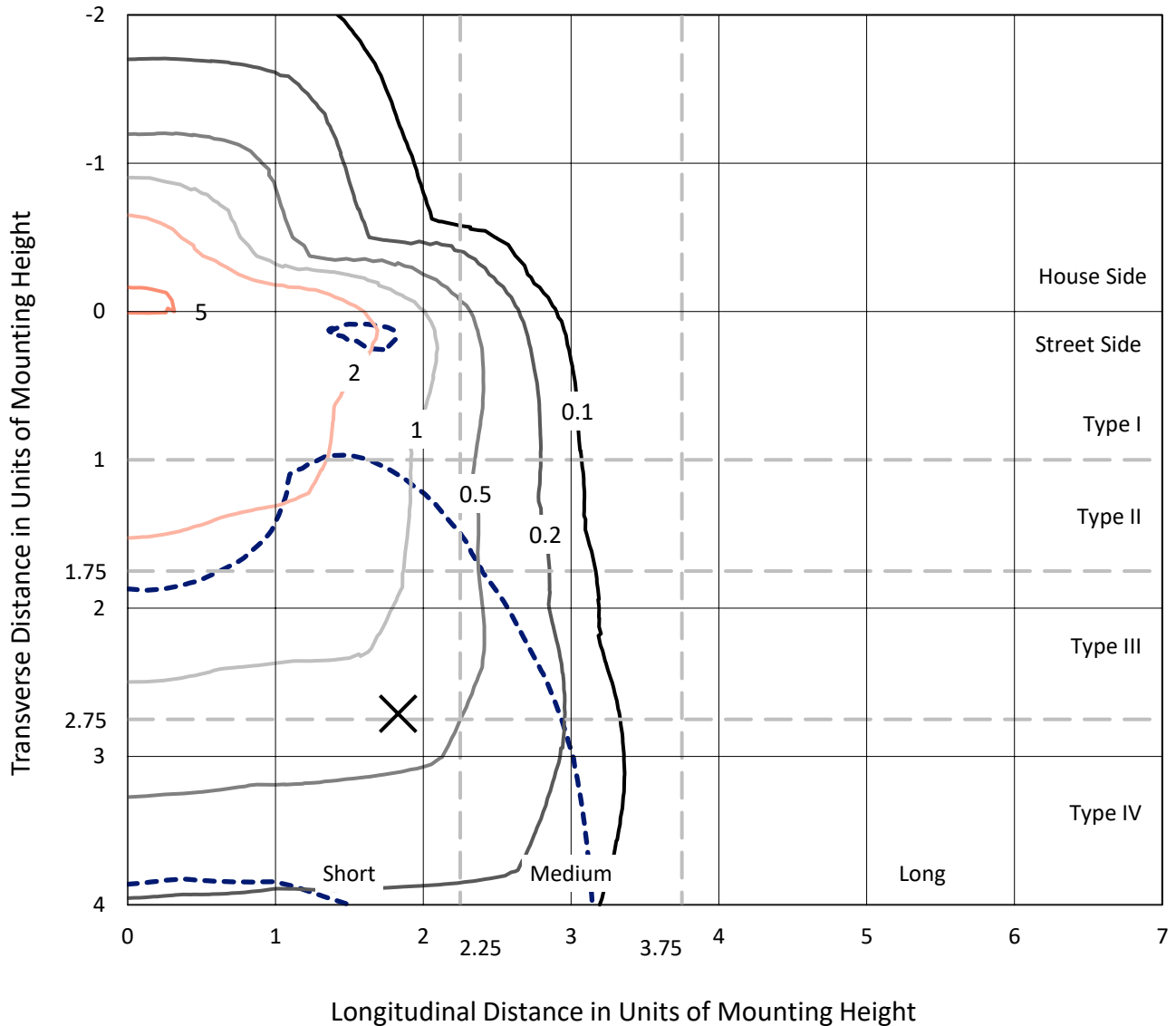
Lumens per Lamp: N/A
Luminaire Lumens: 31957.7 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

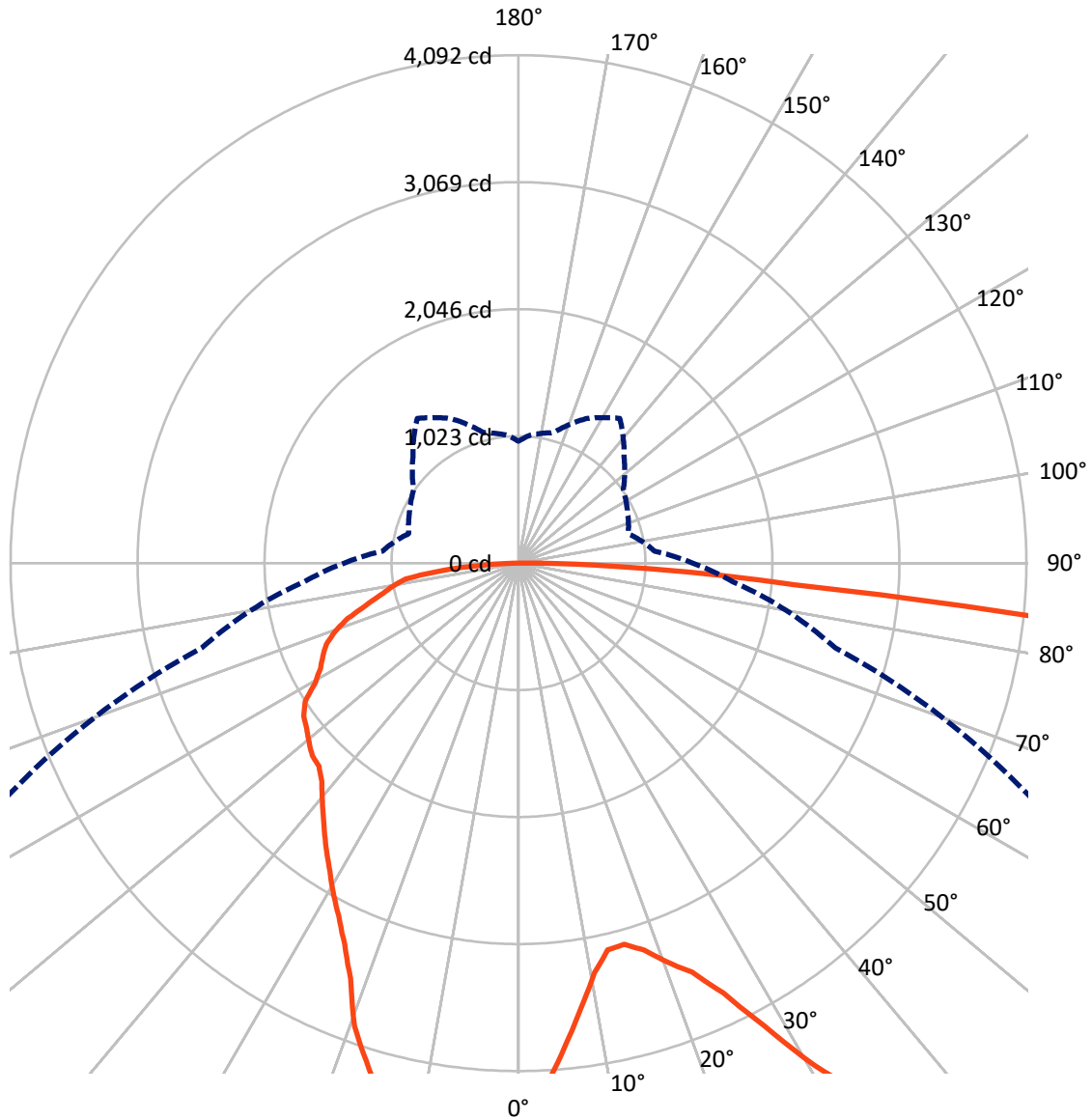
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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
House Side	Lumens	6903.3	0.0	6903.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	25054.4	0.0	25054.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	31957.7	0.0	31957.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.9	1.3
10°-20°	1183.4	3.7
20°-30°	1947.7	6.1
30°-40°	2912.8	9.1
40°-50°	4318.1	13.5
50°-60°	6222.9	19.5
60°-70°	7941.2	24.8
70°-80°	6179.6	19.3
80°-90°	829.0	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°	31957.7	100.0
0°-180°	31957.7	100.0

Coefficient of Utilization

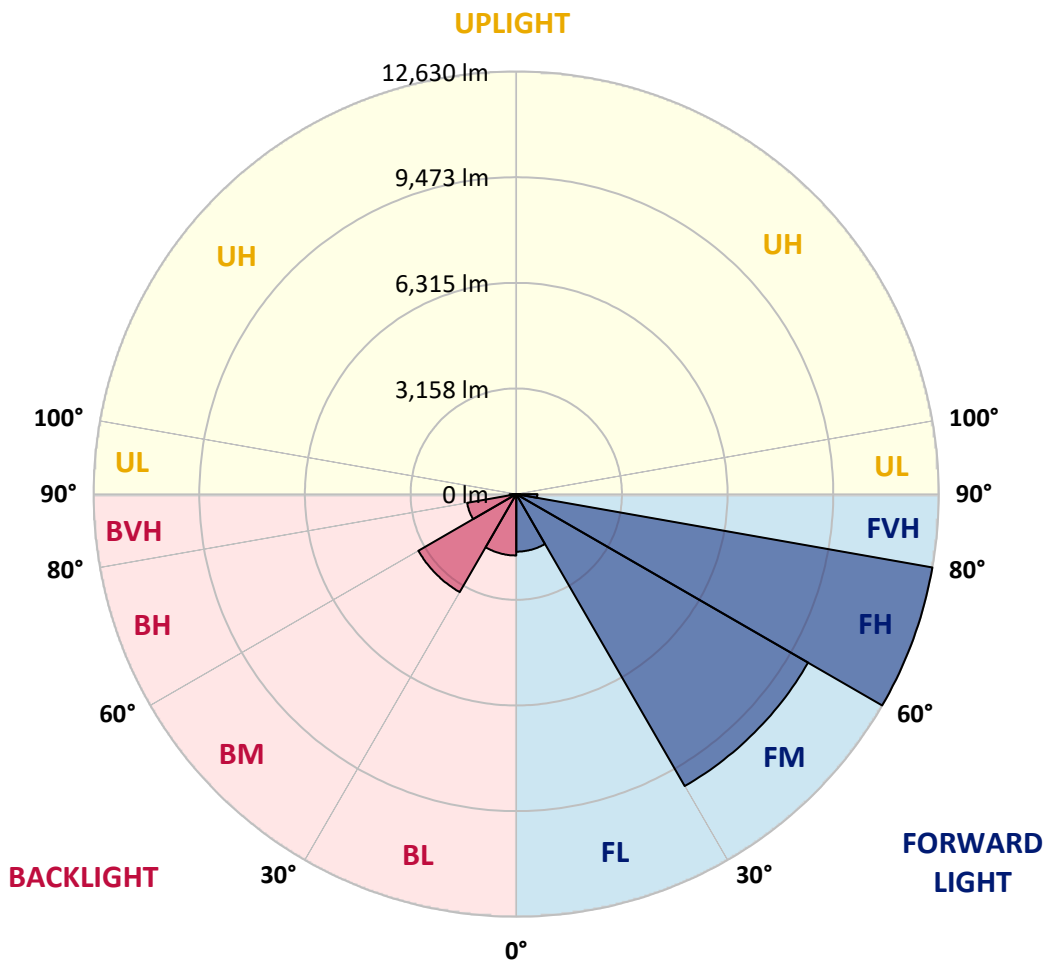


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1719.9	5.4			
FM (30°-60°)	10073.3	31.5			
FH (60°-80°)	12630.3	39.5			G5
FVH (80°-90°)	631.0	2.0			G4/750
BL (0°-30°)	1834.2	5.7	B3/2500		
BM (30°-60°)	3380.6	10.6	B3/5000		
BH (60°-80°)	1490.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	198.0	0.6			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6
2.5°	4105.2	4118.7	4162.7	4172.8	4220.1	4193.1	4250.5	4351.9	4409.3	4493.8	4595.2
5°	3780.9	3723.4	3750.5	3855.2	3909.3	3922.8	3983.6	4155.9	4264.0	4389.0	4578.3
7.5°	3399.1	3388.9	3443.0	3510.6	3618.7	3628.8	3764.0	3916.0	4139.0	4416.1	4639.1
10°	3138.9	3182.8	3213.2	3284.2	3358.5	3358.5	3530.8	3794.4	4047.8	4314.7	4652.6
12.5°	3125.4	3098.4	3105.1	3142.3	3196.3	3263.9	3426.1	3662.6	3983.6	4294.4	4710.0
15°	3169.3	3179.4	3118.6	3165.9	3186.2	3209.9	3388.9	3655.9	3943.0	4365.4	4808.0
17.5°	3402.4	3345.0	3250.4	3206.5	3277.4	3277.4	3399.1	3608.5	3949.8	4402.6	4949.9
20°	3584.9	3584.9	3429.5	3382.2	3432.9	3422.7	3507.2	3662.6	3983.6	4476.9	5108.7
22.5°	3892.4	3936.3	3679.5	3581.5	3578.1	3605.2	3679.5	3811.3	4078.2	4581.6	5260.8
25°	4335.0	4345.1	4047.8	3946.4	3838.3	3882.2	3895.7	4027.5	4162.7	4703.3	5433.1
27.5°	4828.3	4821.5	4547.9	4294.4	4223.5	4233.6	4159.3	4247.1	4287.7	4740.4	5679.7
30°	5375.7	5314.8	5108.7	4750.6	4693.1	4628.9	4466.8	4463.4	4547.9	4949.9	6021.0
32.5°	5733.8	5656.1	5514.2	5257.4	5098.6	5105.4	4848.6	4845.2	4770.9	5179.7	6318.3
35°	6085.2	5966.9	5929.8	5666.2	5507.4	5524.3	5318.2	5291.2	5156.0	5527.7	6808.3
37.5°	6507.5	6402.8	6460.2	6260.9	6064.9	5983.8	5889.2	5855.4	5679.7	6017.6	7477.3
40°	6973.8	6940.0	6902.9	6804.9	6686.6	6693.4	6592.0	6558.2	6298.1	6608.9	8119.2
42.5°	7602.3	7473.9	7281.3	7345.5	7406.3	7470.5	7436.7	7348.9	7078.6	7210.3	8835.5
45°	8186.8	8017.9	7663.1	7683.4	7933.4	7984.1	8392.9	8382.8	7838.8	7973.9	9649.8
47.5°	8582.1	8504.4	8291.6	8267.9	8626.1	8622.7	9359.2	9359.2	8639.6	8734.2	10524.9
50°	9170.0	8967.3	8876.1	8994.3	9176.8	9301.8	10345.9	10410.1	9426.8	9528.2	11670.3
52.5°	9859.3	9605.9	9376.1	9680.2	10004.6	10085.7	11322.3	11295.3	10031.6	10450.6	13011.7
55°	10430.3	10301.9	10143.1	10318.8	10849.3	10950.7	12302.2	12052.1	10636.4	11214.2	13657.1
57.5°	11095.9	11173.7	11207.4	11163.5	11795.4	11954.2	13420.6	12704.3	11156.8	11727.8	14035.5
60°	12099.4	12146.8	12190.7	12295.4	12964.4	13187.4	14305.8	13521.9	11484.5	12025.1	14065.9
62.5°	13626.7	13444.2	13542.2	13903.7	14440.9	14694.4	15610.0	14096.3	11734.5	12204.2	13072.5
65°	15373.5	15126.8	15025.5	15491.8	16883.8	16681.1	17238.6	14525.4	11373.0	11535.2	11085.8
67.5°	17144.0	17171.0	16910.8	17846.8	19553.1	19553.1	18752.3	14731.5	10393.2	9349.1	7774.6
70°	18549.6	18634.0	18775.9	20590.3	23293.4	23702.2	20627.5	13886.8	8396.3	6223.7	4250.5
72.5°	18529.3	18275.9	19002.3	22343.9	26692.4	26351.2	21019.5	10981.1	5240.5	3047.7	1949.6
73°	18113.7	17900.8	18694.8	22327.0	26831.0	26510.0	20732.3	10122.9	4622.2	2642.2	1733.3
75°	14792.3	14407.2	15758.7	20222.1	24824.0	25070.6	17613.6	6602.2	2534.1	1628.6	1219.7
77.5°	6744.1	6913.0	8673.4	13565.8	19130.7	19421.3	11579.1	2855.1	1388.7	1142.0	898.8
80°	2165.8	2273.9	3375.4	6744.1	11991.3	12515.0	5352.0	1297.5	990.0	875.1	672.4
82.5°	827.8	824.4	1415.7	2804.4	5683.1	6017.6	1956.3	790.6	736.6	645.3	476.4
85°	290.6	304.1	533.8	1108.2	2236.8	2341.5	679.1	439.2	510.2	432.5	273.7
87.5°	101.4	104.7	189.2	402.1	770.4	814.3	189.2	175.7	253.4	250.0	138.5
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°	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6	4581.6
2.5°	4628.9	4659.4	4669.5	4791.1	4791.1	4791.1	4838.4	4838.4	4824.9	4791.1	4872.2
5°	4649.2	4703.3	4808.0	4912.8	4939.8	4963.4	5027.6	4973.6	4993.9	4960.1	4990.5
7.5°	4706.7	4781.0	4977.0	5041.2	4997.2	5047.9	4980.3	4943.2	4906.0	4919.5	4872.2
10°	4804.6	4899.2	4990.5	5108.7	5024.3	4973.6	4835.0	4801.3	4683.0	4642.5	4679.6
12.5°	4926.3	5041.2	5196.6	5152.7	4990.5	4845.2	4696.5	4554.6	4483.7	4382.3	4409.3
15°	5047.9	5179.7	5203.3	5129.0	4926.3	4743.8	4473.5	4274.2	4203.2	4112.0	4159.3
17.5°	5179.7	5304.7	5264.2	5071.6	4797.9	4520.8	4213.4	4017.4	3868.7	3811.3	3811.3
20°	5375.7	5436.5	5372.3	4977.0	4642.5	4277.5	3980.2	3757.2	3608.5	3584.9	3547.7
22.5°	5527.7	5625.7	5338.5	4838.4	4416.1	3959.9	3618.7	3534.2	3490.3	3453.1	3405.8
25°	5723.7	5720.3	5277.7	4710.0	4027.5	3581.5	3375.4	3368.7	3348.4	3334.9	3399.1
27.5°	5909.5	5831.8	5206.7	4392.4	3625.4	3294.3	3182.8	3257.2	3287.6	3267.3	3294.3
30°	6203.5	6075.1	5105.4	4054.5	3270.7	3003.7	3024.0	3125.4	3176.1	3206.5	3165.9
32.5°	6514.3	6318.3	4895.9	3703.2	2956.4	2821.3	2868.6	2973.3	3034.2	3067.9	3105.1
35°	6963.7	6507.5	4683.0	3243.6	2730.1	2709.8	2736.8	2794.3	2882.1	2905.8	2915.9
37.5°	7517.8	6794.7	4395.8	2875.4	2554.4	2578.0	2605.0	2625.3	2628.7	2672.6	2655.7
40°	8071.9	7038.0	3976.8	2524.0	2371.9	2500.3	2486.8	2449.6	2419.2	2378.7	2368.5
42.5°	8558.5	7250.9	3510.6	2226.6	2209.7	2419.2	2375.3	2280.7	2209.7	2179.3	2128.6
45°	9105.8	7551.6	3040.9	2040.8	2084.7	2321.2	2307.7	2162.4	2071.2	1963.1	1949.6
47.5°	9815.4	7865.8	2591.5	1848.2	1966.5	2284.1	2290.8	2105.0	1973.2	1827.9	1807.7
50°	10724.3	8318.6	2250.3	1767.1	1895.5	2230.0	2240.1	2027.3	1855.0	1706.3	1692.8
52.5°	11596.0	8781.5	1966.5	1642.1	1848.2	2165.8	2189.5	1956.3	1757.0	1571.1	1581.3
55°	12035.3	8612.5	1723.2	1550.9	1740.1	2061.1	2148.9	1905.6	1608.3	1479.9	1476.5
57.5°	12133.2	8196.9	1530.6	1456.3	1648.8	1949.6	2081.3	1753.6	1540.7	1432.6	1419.1
60°	11812.3	7470.5	1378.5	1354.9	1534.0	1834.7	1925.9	1672.5	1473.2	1385.3	1365.0
62.5°	11021.6	6717.0	1273.8	1307.6	1436.0	1709.7	1827.9	1615.1	1409.0	1348.1	1304.2
65°	9038.3	5524.3	1189.3	1216.4	1334.6	1588.0	1767.1	1550.9	1351.5	1294.1	1290.7
67.5°	6260.9	3807.9	1121.8	1172.4	1253.5	1500.2	1706.3	1479.9	1277.2	1256.9	1229.9
70°	3206.5	2030.7	1033.9	1074.5	1165.7	1388.7	1598.2	1405.6	1199.5	1196.1	1162.3
72.5°	1625.2	1189.3	932.5	993.4	1057.6	1243.4	1463.0	1307.6	1101.5	1064.3	1010.3
73°	1405.6	1101.5	915.7	969.7	1030.5	1202.8	1422.5	1283.9	1088.0	1033.9	983.2
75°	1023.8	868.3	821.0	875.1	922.4	1084.6	1287.3	1175.8	1000.1	942.7	895.4
77.5°	767.0	669.0	682.5	743.3	783.9	935.9	1145.4	1064.3	905.5	827.8	807.5
80°	564.3	510.2	564.3	621.7	652.1	824.4	1044.0	922.4	763.6	675.8	658.9
82.5°	402.1	371.7	435.9	473.0	486.5	682.5	939.3	736.6	577.8	462.9	425.7
85°	229.8	226.4	294.0	290.6	300.7	398.7	618.3	489.9	371.7	283.8	277.1
87.5°	101.4	111.5	148.7	118.3	125.0	189.2	263.5	182.5	152.0	84.5	64.2
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)