

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: P478219

Luminaire Tested: **IFLD-M-SA4E-750-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478219  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-750-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

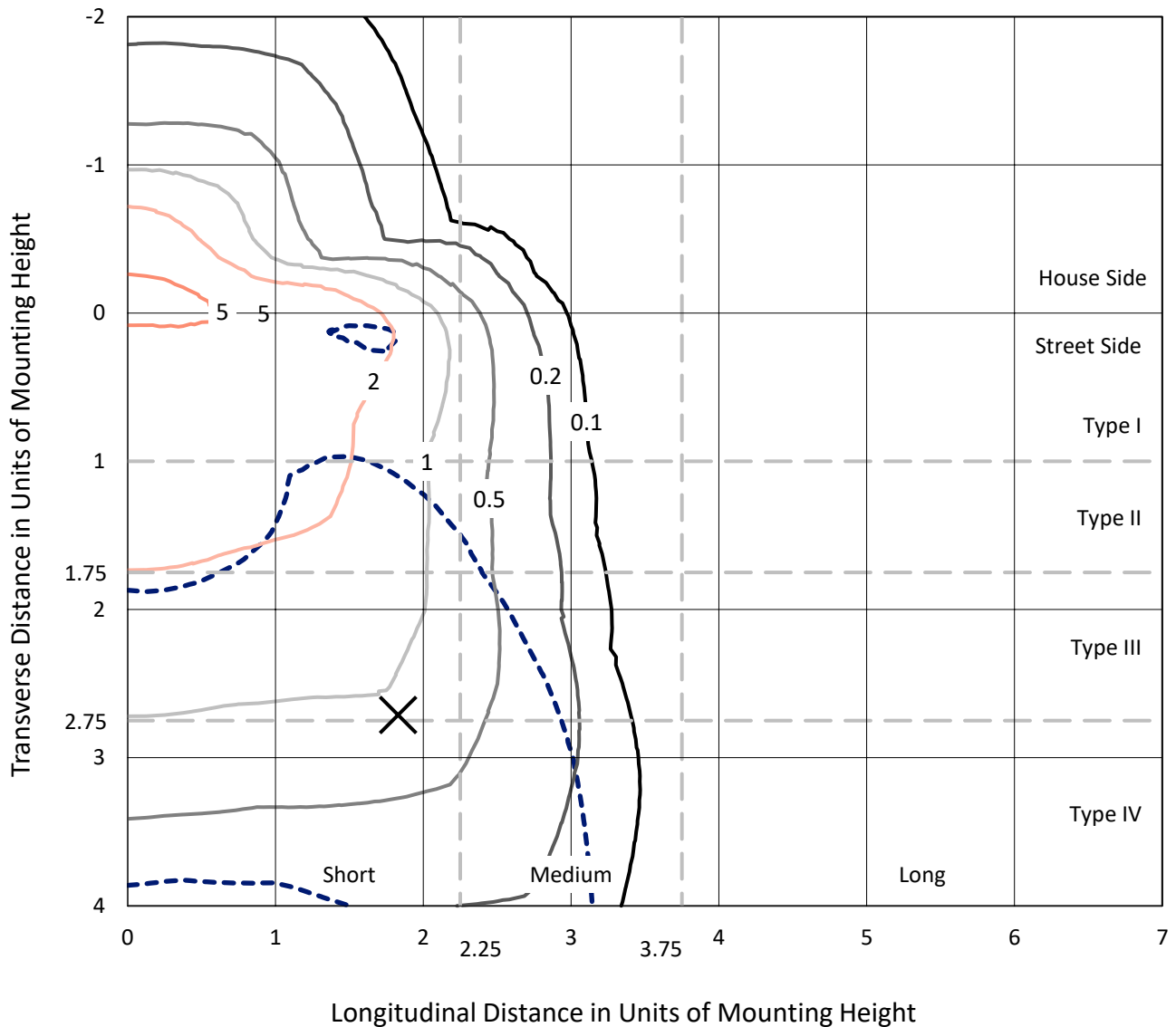
Lumens per Lamp: N/A  
Luminaire Lumens: 37940.7 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8  
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

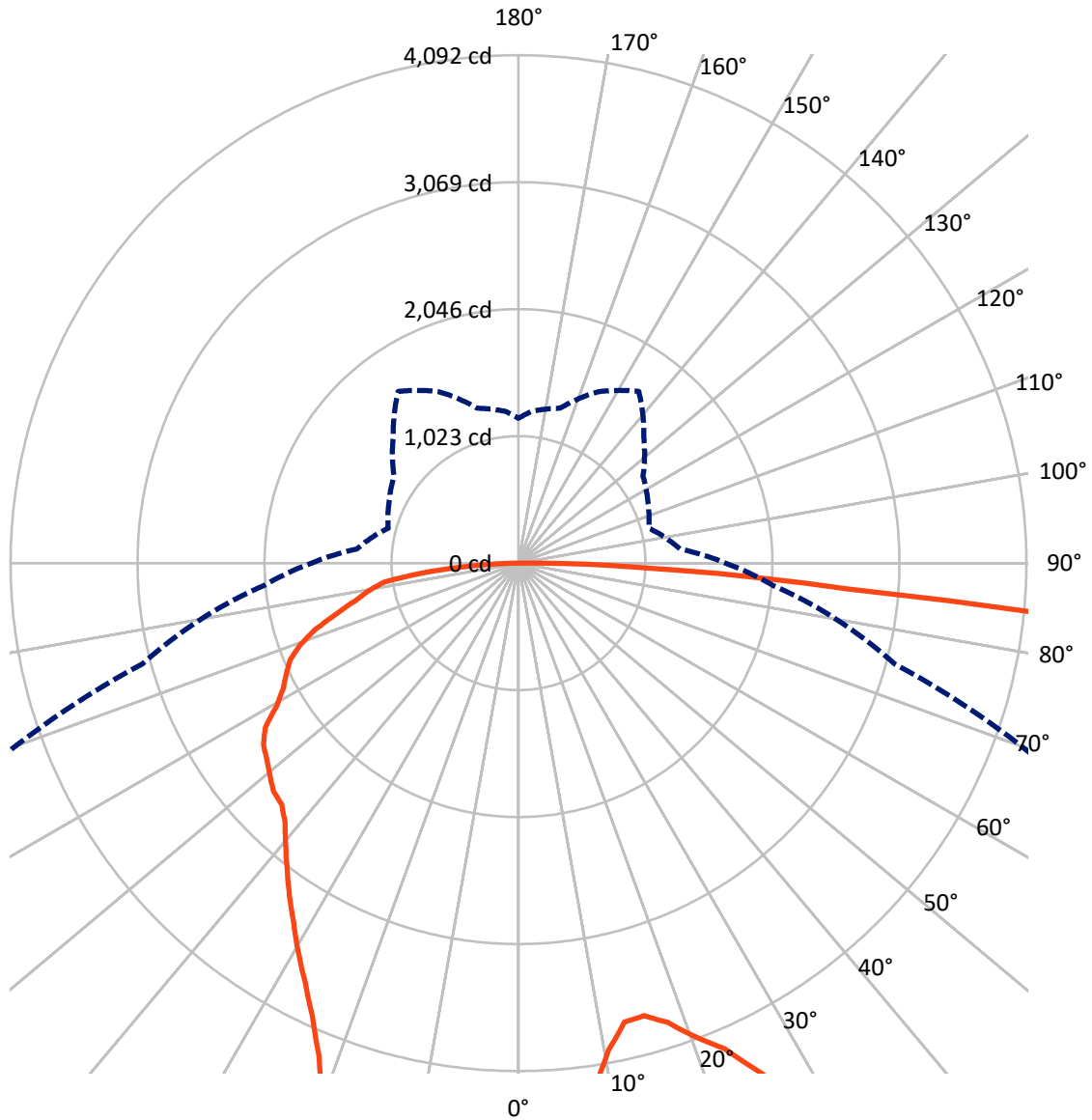
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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
<b>House Side</b>	Lumens	8195.7	0.0	8195.7
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	29745.0	0.0	29745.0
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	37940.7	0.0	37940.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.0	1.3
10°-20°	1405.0	3.7
20°-30°	2312.4	6.1
30°-40°	3458.1	9.1
40°-50°	5126.6	13.5
50°-60°	7387.9	19.5
60°-70°	9427.9	24.8
70°-80°	7336.5	19.3
80°-90°	984.2	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°	37940.7	100.0
0°-180°	37940.7	100.0

**Coefficient of Utilization**



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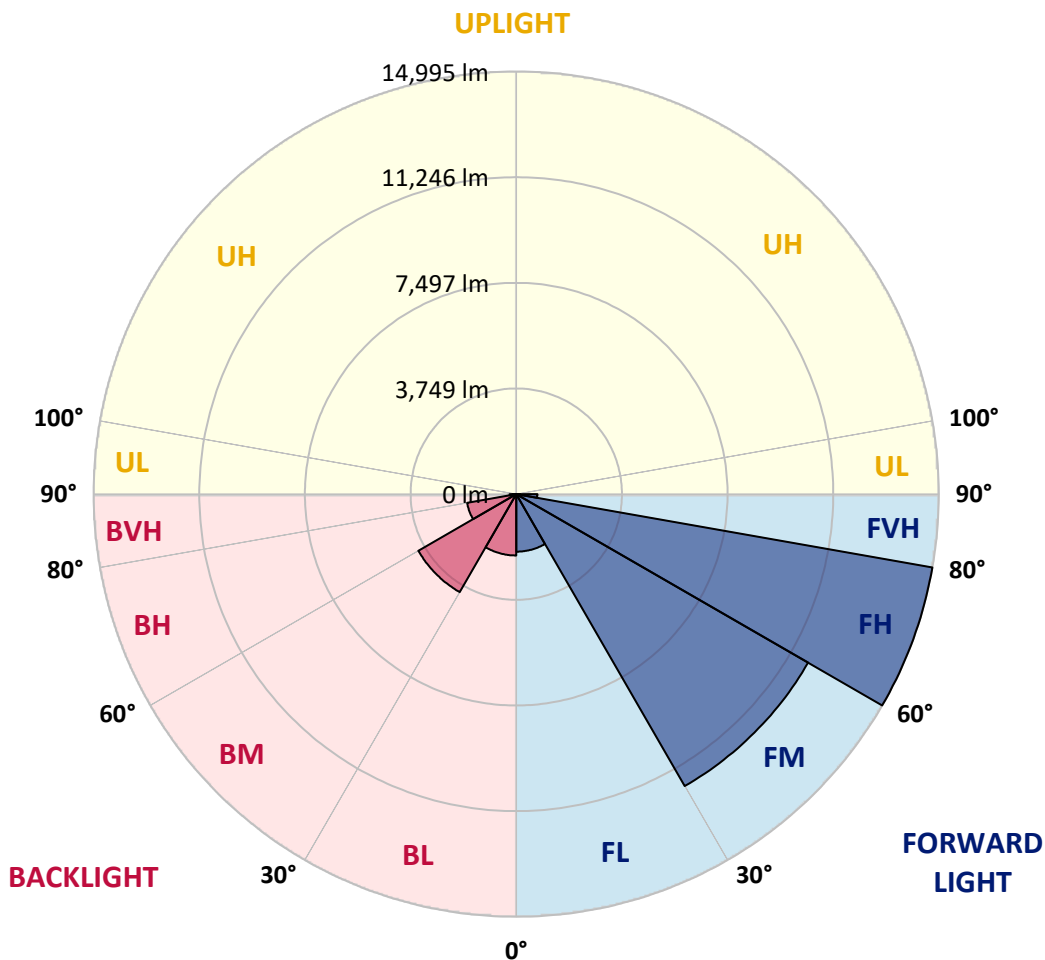
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.9	5.4			
FM (30°-60°)	11959.1	31.5			
FH (60°-80°)	14994.8	39.5			G5
FVH (80°-90°)	749.2	2.0			G4/750
BL (0°-30°)	2177.5	5.7	B3/2500		
BM (30°-60°)	4013.4	10.6	B3/5000		
BH (60°-80°)	1769.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	235.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4
2.5°	4873.8	4889.8	4942.0	4954.0	5010.2	4978.1	5046.3	5166.6	5234.8	5335.1	5455.4
5°	4488.7	4420.5	4452.6	4577.0	4641.1	4657.2	4729.4	4934.0	5062.3	5210.7	5435.4
7.5°	4035.4	4023.4	4087.6	4167.8	4296.2	4308.2	4468.6	4649.2	4913.9	5242.8	5507.6
10°	3726.5	3778.7	3814.8	3899.0	3987.3	3987.3	4191.9	4504.7	4805.6	5122.5	5523.6
12.5°	3710.5	3678.4	3686.4	3730.6	3794.7	3875.0	4067.5	4348.3	4729.4	5098.4	5591.8
15°	3762.6	3774.7	3702.5	3758.6	3782.7	3810.8	4023.4	4340.3	4681.2	5182.7	5708.2
17.5°	4039.4	3971.2	3858.9	3806.8	3891.0	3891.0	4035.4	4284.1	4689.3	5226.8	5876.6
20°	4256.0	4256.0	4071.5	4015.4	4075.5	4063.5	4163.8	4348.3	4729.4	5315.0	6065.2
22.5°	4621.1	4673.2	4368.4	4252.0	4248.0	4280.1	4368.4	4524.8	4841.7	5439.4	6245.7
25°	5146.6	5158.6	4805.6	4685.3	4556.9	4609.0	4625.1	4781.5	4942.0	5583.8	6450.3
27.5°	5732.2	5724.2	5399.3	5098.4	5014.2	5026.2	4938.0	5042.3	5090.4	5627.9	6743.1
30°	6382.1	6309.9	6065.2	5640.0	5571.8	5495.6	5303.0	5299.0	5399.3	5876.6	7148.2
32.5°	6807.3	6715.0	6546.5	6241.7	6053.1	6061.2	5756.3	5752.3	5664.0	6149.4	7501.2
35°	7224.4	7084.0	7039.9	6727.0	6538.5	6558.6	6313.9	6281.8	6121.3	6562.6	8082.9
37.5°	7725.9	7601.5	7669.7	7433.0	7200.4	7104.1	6991.8	6951.7	6743.1	7144.2	8877.1
40°	8279.4	8239.3	8195.2	8078.9	7938.5	7946.5	7826.1	7786.0	7477.2	7846.2	9639.3
42.5°	9025.5	8873.1	8644.5	8720.7	8792.9	8869.1	8829.0	8724.7	8403.8	8560.2	10489.7
45°	9719.5	9518.9	9097.7	9121.8	9418.7	9478.8	9964.2	9952.2	9306.3	9466.8	11456.4
47.5°	10188.8	10096.6	9843.9	9815.8	10241.0	10237.0	11111.4	11111.4	10257.0	10369.3	12495.4
50°	10886.8	10646.1	10537.8	10678.2	10894.8	11043.3	12282.8	12359.0	11191.7	11312.0	13855.2
52.5°	11705.1	11404.3	11131.5	11492.5	11877.6	11973.9	13442.0	13409.9	11909.7	12407.1	15447.7
55°	12383.0	12230.6	12042.1	12250.7	12880.4	13000.8	14605.3	14308.5	12627.7	13313.7	16213.9
57.5°	13173.3	13265.5	13305.7	13253.5	14003.6	14192.2	15933.1	15082.7	13245.5	13923.4	16663.2
60°	14364.6	14420.8	14473.0	14597.3	15391.6	15656.3	16984.1	16053.4	13634.6	14276.4	16699.3
62.5°	16177.8	15961.2	16077.5	16506.7	17144.5	17445.4	18532.4	16735.4	13931.4	14489.0	15519.9
65°	18251.6	17958.8	17838.5	18392.0	20044.7	19804.0	20465.9	17244.8	13502.2	13694.8	13161.2
67.5°	20353.6	20385.7	20076.8	21188.0	23213.7	23213.7	22263.0	17489.5	12338.9	11099.4	9230.1
70°	22022.3	22122.6	22291.1	24445.2	27654.3	28139.6	24489.3	16486.7	9968.2	7388.9	5046.3
72.5°	21998.3	21697.4	22559.8	26527.1	31689.7	31284.5	24954.6	13036.9	6221.6	3618.2	2314.5
73°	21504.9	21252.1	22194.8	26507.0	31854.1	31473.1	24613.7	12018.0	5487.5	3136.9	2057.8
75°	17561.7	17104.4	18708.9	24007.9	29471.4	29764.2	20911.2	7838.2	3008.5	1933.5	1448.1
77.5°	8006.7	8207.2	10297.1	16105.6	22712.3	23057.2	13746.9	3389.6	1648.7	1355.8	1067.0
80°	2571.3	2699.6	4007.3	8006.7	14236.3	14858.0	6354.0	1540.4	1175.3	1038.9	798.3
82.5°	982.8	978.8	1680.8	3329.4	6747.1	7144.2	2322.6	938.7	874.5	766.2	565.6
85°	345.0	361.0	633.8	1315.7	2655.5	2779.9	806.3	521.5	605.7	513.5	324.9
87.5°	120.3	124.4	224.6	477.4	914.6	966.7	224.6	208.6	300.9	296.8	164.5
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°	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4
2.5°	5495.6	5531.7	5543.7	5688.1	5688.1	5688.1	5744.3	5744.3	5728.2	5688.1	5784.4
5°	5519.6	5583.8	5708.2	5832.5	5864.6	5892.7	5968.9	5904.7	5928.8	5888.7	5924.8
7.5°	5587.8	5676.1	5908.7	5984.9	5932.8	5993.0	5912.7	5868.6	5824.5	5840.5	5784.4
10°	5704.1	5816.5	5924.8	6065.2	5964.9	5904.7	5740.2	5700.1	5559.7	5511.6	5555.7
12.5°	5848.6	5984.9	6169.5	6117.3	5924.8	5752.3	5575.8	5407.3	5323.1	5202.7	5234.8
15°	5993.0	6149.4	6177.5	6089.2	5848.6	5631.9	5311.0	5074.4	4990.1	4881.8	4938.0
17.5°	6149.4	6297.8	6249.7	6021.0	5696.1	5367.2	5002.2	4769.5	4593.0	4524.8	4524.8
20°	6382.1	6454.3	6378.0	5908.7	5511.6	5078.4	4725.4	4460.6	4284.1	4256.0	4211.9
22.5°	6562.6	6678.9	6337.9	5744.3	5242.8	4701.3	4296.2	4195.9	4143.7	4099.6	4043.4
25°	6795.2	6791.2	6265.7	5591.8	4781.5	4252.0	4007.3	3999.3	3975.2	3959.2	4035.4
27.5°	7015.9	6923.6	6181.5	5214.8	4304.2	3911.1	3778.7	3866.9	3903.0	3879.0	3911.1
30°	7364.8	7212.4	6061.2	4813.6	3883.0	3566.1	3590.2	3710.5	3770.7	3806.8	3758.6
32.5°	7733.9	7501.2	5812.4	4396.4	3509.9	3349.5	3405.6	3530.0	3602.2	3642.3	3686.4
35°	8267.4	7725.9	5559.7	3850.9	3241.2	3217.1	3249.2	3317.4	3421.7	3449.8	3461.8
37.5°	8925.3	8066.8	5218.8	3413.7	3032.6	3060.7	3092.8	3116.8	3120.8	3173.0	3152.9
40°	9583.1	8355.6	4721.4	2996.5	2816.0	2968.4	2952.4	2908.2	2872.1	2824.0	2812.0
42.5°	10160.8	8608.4	4167.8	2643.5	2623.4	2872.1	2820.0	2707.7	2623.4	2587.3	2527.2
45°	10810.6	8965.4	3610.2	2422.9	2475.0	2755.8	2739.8	2567.3	2459.0	2330.6	2314.5
47.5°	11653.0	9338.4	3076.7	2194.2	2334.6	2711.7	2719.7	2499.1	2342.6	2170.1	2146.1
50°	12732.0	9875.9	2671.6	2097.9	2250.4	2647.5	2659.5	2406.8	2202.2	2025.7	2009.7
52.5°	13767.0	10425.5	2334.6	1949.5	2194.2	2571.3	2599.4	2322.6	2085.9	1865.3	1877.3
55°	14288.4	10224.9	2045.8	1841.2	2065.8	2446.9	2551.2	2262.4	1909.4	1757.0	1753.0
57.5°	14404.8	9731.5	1817.1	1728.9	1957.5	2314.5	2471.0	2081.9	1829.2	1700.8	1684.8
60°	14023.7	8869.1	1636.6	1608.6	1821.2	2178.2	2286.5	1985.6	1748.9	1644.7	1620.6
62.5°	13085.0	7974.6	1512.3	1552.4	1704.8	2029.7	2170.1	1917.4	1672.7	1600.5	1548.4
65°	10730.4	6558.6	1412.0	1444.1	1584.5	1885.3	2097.9	1841.2	1604.5	1536.3	1532.3
67.5°	7433.0	4520.8	1331.8	1391.9	1488.2	1781.0	2025.7	1757.0	1516.3	1492.2	1460.1
70°	3806.8	2410.8	1227.5	1275.6	1383.9	1648.7	1897.4	1668.7	1424.0	1420.0	1379.9
72.5°	1929.5	1412.0	1107.1	1179.3	1255.6	1476.2	1736.9	1552.4	1307.7	1263.6	1199.4
73°	1668.7	1307.7	1087.1	1151.3	1223.5	1428.0	1688.8	1524.3	1291.7	1227.5	1167.3
75°	1215.4	1030.9	974.8	1038.9	1095.1	1287.6	1528.3	1396.0	1187.4	1119.2	1063.0
77.5°	910.6	794.2	810.3	882.5	930.6	1111.1	1359.8	1263.6	1075.0	982.8	958.7
80°	669.9	605.7	669.9	738.1	774.2	978.8	1239.5	1095.1	906.6	802.3	782.2
82.5°	477.4	441.2	517.5	561.6	577.6	810.3	1115.2	874.5	685.9	549.6	505.4
85°	272.8	268.8	349.0	345.0	357.0	473.3	734.1	581.6	441.2	337.0	328.9
87.5°	120.3	132.4	176.5	140.4	148.4	224.6	312.9	216.6	180.5	100.3	76.2
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)