

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: P478063

Luminaire Tested: **IFLD-M-SA4E-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478063
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

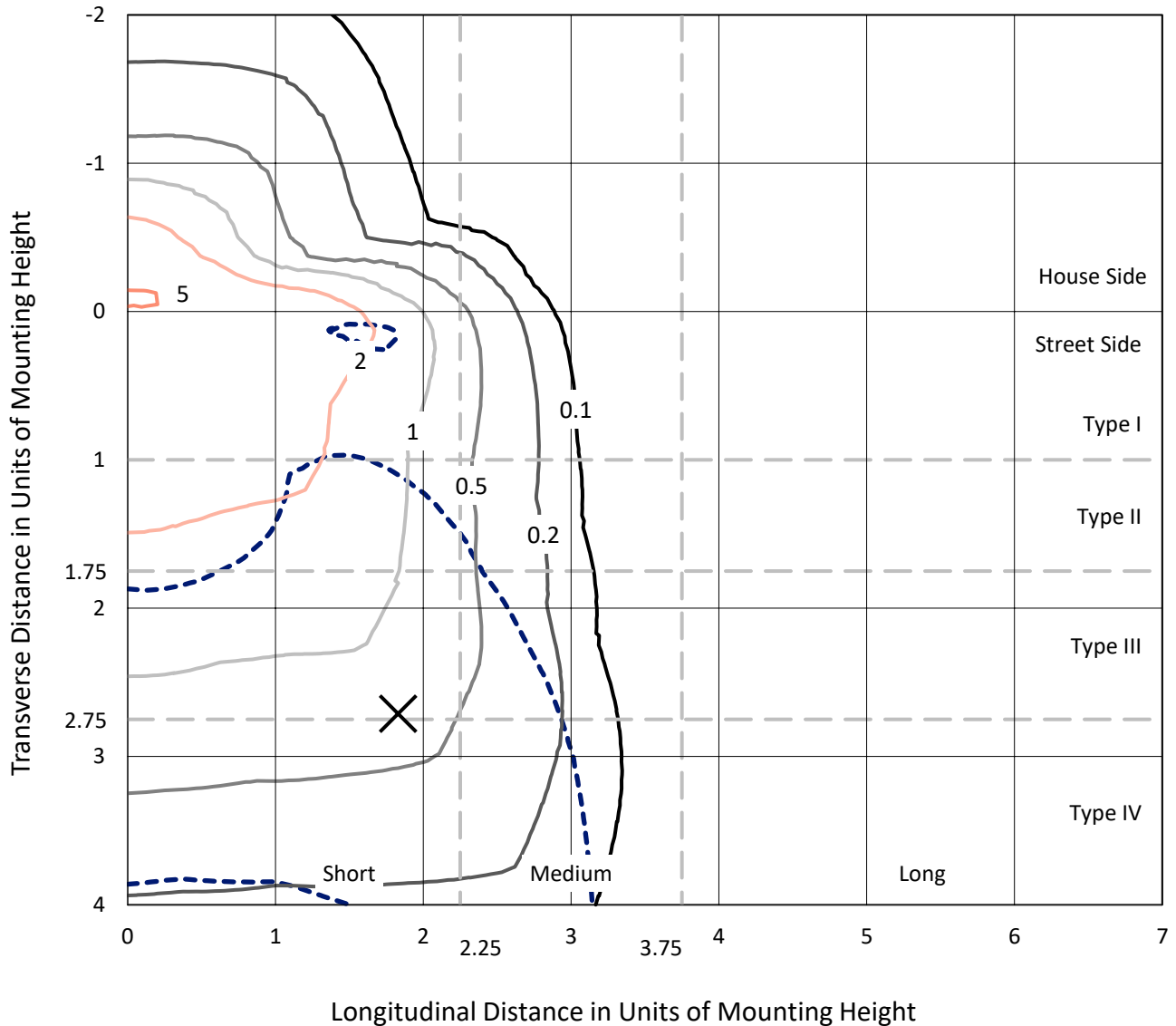
Lumens per Lamp: N/A
Luminaire Lumens: 31019.5 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

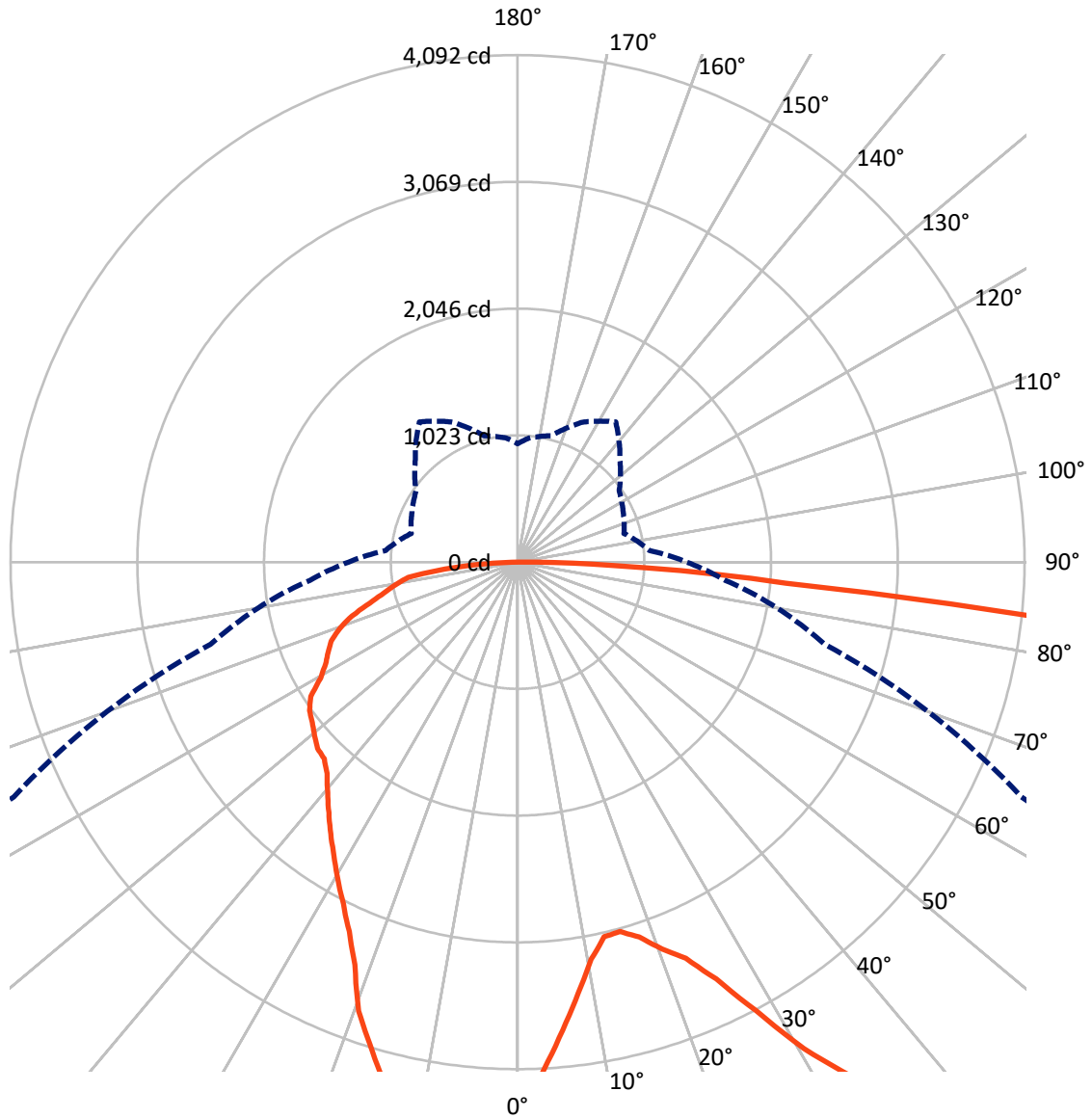
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	6700.6	0.0	6700.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24318.9	0.0	24318.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	31019.5	0.0	31019.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.5	1.3
10°-20°	1148.7	3.7
20°-30°	1890.6	6.1
30°-40°	2827.3	9.1
40°-50°	4191.4	13.5
50°-60°	6040.2	19.5
60°-70°	7708.1	24.8
70°-80°	5998.2	19.3
80°-90°	804.7	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°	31019.5	100.0
0°-180°	31019.5	100.0

Coefficient of Utilization



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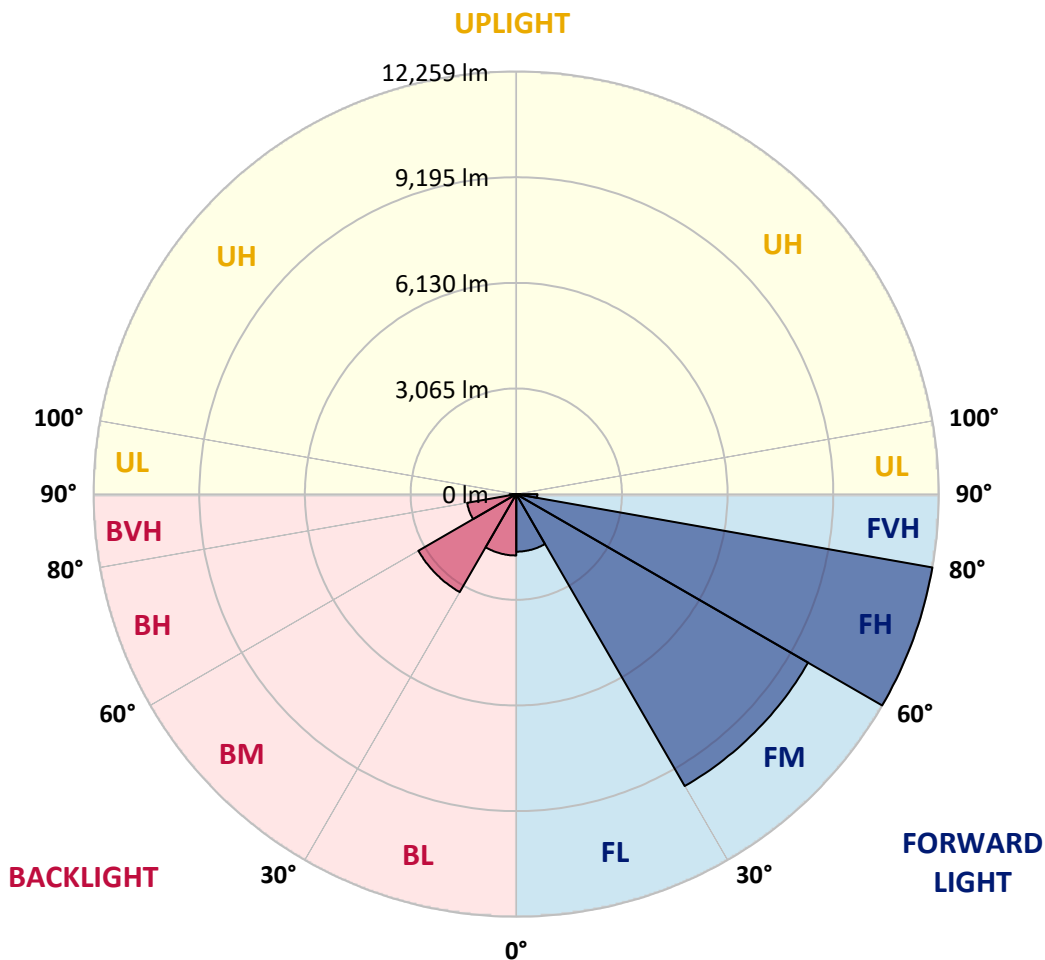
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1669.4	5.4			
FM (30°-60°)	9777.5	31.5			
FH (60°-80°)	12259.4	39.5			G5
FVH (80°-90°)	612.5	2.0			G4/750
BL (0°-30°)	1780.3	5.7	B3/2500		
BM (30°-60°)	3281.3	10.6	B3/5000		
BH (60°-80°)	1446.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	192.2	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°	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1
2.5°	3984.7	3997.8	4040.5	4050.3	4096.2	4070.0	4125.7	4224.1	4279.9	4361.9	4460.2
5°	3669.9	3614.1	3640.3	3742.0	3794.5	3807.6	3866.6	4033.9	4138.8	4260.2	4443.8
7.5°	3299.3	3289.4	3341.9	3407.5	3512.4	3522.3	3653.5	3801.0	4017.5	4286.4	4502.9
10°	3046.7	3089.4	3118.9	3187.8	3259.9	3259.9	3427.2	3683.0	3928.9	4188.0	4516.0
12.5°	3033.6	3007.4	3013.9	3050.0	3102.5	3168.1	3325.5	3555.1	3866.6	4168.4	4571.7
15°	3076.3	3086.1	3027.1	3073.0	3092.7	3115.6	3289.4	3548.5	3827.3	4237.2	4666.9
17.5°	3302.5	3246.8	3155.0	3112.3	3181.2	3181.2	3299.3	3502.6	3833.8	4273.3	4804.6
20°	3479.6	3479.6	3328.8	3282.9	3332.1	3322.2	3404.2	3555.1	3866.6	4345.5	4958.7
22.5°	3778.1	3820.7	3571.5	3476.4	3473.1	3499.3	3571.5	3699.4	3958.5	4447.1	5106.3
25°	4207.7	4217.6	3928.9	3830.6	3725.6	3768.2	3781.4	3909.3	4040.5	4565.2	5273.6
27.5°	4686.5	4680.0	4414.3	4168.4	4099.5	4109.3	4037.2	4122.4	4161.8	4601.3	5513.0
30°	5217.8	5158.8	4958.7	4611.1	4555.4	4493.0	4335.6	4332.3	4414.3	4804.6	5844.2
32.5°	5565.5	5490.0	5352.3	5103.0	4948.9	4955.5	4706.2	4702.9	4630.8	5027.6	6132.8
35°	5906.5	5791.8	5755.7	5499.9	5345.7	5362.1	5162.1	5135.8	5004.7	5365.4	6608.4
37.5°	6316.5	6214.8	6270.6	6077.1	5886.9	5808.2	5716.3	5683.5	5513.0	5841.0	7257.7
40°	6769.1	6736.3	6700.2	6605.1	6490.3	6496.9	6398.5	6365.7	6113.2	6414.9	7880.9
42.5°	7379.1	7254.5	7067.5	7129.8	7188.9	7251.2	7218.4	7133.1	6870.7	6998.6	8576.1
45°	7946.4	7782.5	7438.1	7457.8	7700.5	7749.7	8146.5	8136.7	7608.6	7739.8	9366.5
47.5°	8330.2	8254.7	8048.1	8025.2	8372.8	8369.5	9084.5	9084.5	8385.9	8477.7	10215.9
50°	8900.8	8704.0	8615.5	8730.3	8907.4	9028.7	10042.1	10104.4	9150.1	9248.4	11327.7
52.5°	9569.8	9323.9	9100.9	9396.0	9710.9	9789.6	10989.9	10963.7	9737.1	10143.8	12629.7
55°	10124.1	9999.5	9845.3	10015.9	10530.8	10629.2	11941.0	11698.3	10324.2	10885.0	13256.1
57.5°	10770.2	10845.6	10878.4	10835.8	11449.1	11603.2	13026.5	12331.3	10829.2	11383.5	13623.4
60°	11744.2	11790.1	11832.8	11934.4	12583.8	12800.2	13885.8	13124.9	11147.3	11672.1	13652.9
62.5°	13226.6	13049.5	13144.6	13495.5	14017.0	14262.9	15151.7	13682.5	11390.0	11845.9	12688.7
65°	14922.1	14682.7	14584.3	15036.9	16388.1	16191.3	16732.5	14099.0	11039.1	11196.5	10760.3
67.5°	16640.6	16666.9	16414.4	17322.8	18979.0	18979.0	18201.7	14299.0	10088.0	9074.6	7546.3
70°	18005.0	18086.9	18224.7	19985.8	22609.5	23006.3	20021.9	13479.1	8149.8	6041.0	4125.7
72.5°	17985.3	17739.3	18444.4	21687.9	25908.8	25577.5	20402.3	10658.7	5086.6	2958.2	1892.3
73°	17581.9	17375.3	18146.0	21671.5	26043.2	25731.7	20123.6	9825.7	4486.5	2564.6	1682.4
75°	14358.0	13984.2	15296.0	19628.3	24095.2	24334.6	17096.5	6408.3	2459.7	1580.8	1183.9
77.5°	6546.1	6710.0	8418.7	13167.6	18569.0	18851.1	11239.2	2771.3	1347.9	1108.5	872.4
80°	2102.2	2207.2	3276.3	6546.1	11639.3	12147.6	5194.9	1259.4	960.9	849.4	652.6
82.5°	803.5	800.2	1374.1	2722.1	5516.3	5841.0	1898.9	767.4	715.0	626.4	462.4
85°	282.0	295.2	518.2	1075.7	2171.1	2272.8	659.2	426.3	495.2	419.8	265.6
87.5°	98.4	101.7	183.7	390.3	747.7	790.4	183.7	170.5	246.0	242.7	134.5
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°	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1	4447.1
2.5°	4493.0	4522.6	4532.4	4650.5	4650.5	4650.5	4696.4	4696.4	4683.3	4650.5	4729.2
5°	4512.7	4565.2	4666.9	4768.5	4794.8	4817.7	4880.0	4827.6	4847.2	4814.4	4844.0
7.5°	4568.5	4640.6	4830.8	4893.1	4850.5	4899.7	4834.1	4798.0	4762.0	4775.1	4729.2
10°	4663.6	4755.4	4844.0	4958.7	4876.8	4827.6	4693.1	4660.3	4545.5	4506.2	4542.2
12.5°	4781.6	4893.1	5044.0	5001.4	4844.0	4702.9	4558.6	4420.9	4352.0	4253.6	4279.9
15°	4899.7	5027.6	5050.6	4978.4	4781.6	4604.5	4342.2	4148.7	4079.8	3991.3	4037.2
17.5°	5027.6	5149.0	5109.6	4922.7	4657.0	4388.1	4089.6	3899.4	3755.1	3699.4	3699.4
20°	5217.8	5276.9	5214.5	4830.8	4506.2	4152.0	3863.4	3646.9	3502.6	3479.6	3443.6
22.5°	5365.4	5460.5	5181.8	4696.4	4286.4	3843.7	3512.4	3430.5	3387.8	3351.7	3305.8
25°	5555.6	5552.3	5122.7	4571.7	3909.3	3476.4	3276.3	3269.8	3250.1	3237.0	3299.3
27.5°	5736.0	5660.6	5053.8	4263.5	3519.0	3197.6	3089.4	3161.5	3191.0	3171.4	3197.6
30°	6021.3	5896.7	4955.5	3935.5	3174.6	2915.6	2935.2	3033.6	3082.8	3112.3	3073.0
32.5°	6323.1	6132.8	4752.1	3594.4	2869.6	2738.5	2784.4	2886.0	2945.1	2977.9	3013.9
35°	6759.2	6316.5	4545.5	3148.4	2649.9	2630.2	2656.5	2712.2	2797.5	2820.4	2830.3
37.5°	7297.1	6595.3	4266.7	2790.9	2479.4	2502.3	2528.6	2548.2	2551.5	2594.2	2577.8
40°	7834.9	6831.4	3860.1	2449.9	2302.3	2426.9	2413.8	2377.7	2348.2	2308.8	2299.0
42.5°	8307.2	7038.0	3407.5	2161.3	2144.9	2348.2	2305.6	2213.7	2144.9	2115.3	2066.1
45°	8838.5	7329.9	2951.6	1980.9	2023.5	2253.1	2240.0	2098.9	2010.4	1905.4	1892.3
47.5°	9527.2	7634.9	2515.4	1793.9	1908.7	2217.0	2223.6	2043.2	1915.3	1774.3	1754.6
50°	10409.4	8074.4	2184.2	1715.2	1839.9	2164.5	2174.4	1967.8	1800.5	1656.2	1643.1
52.5°	11255.6	8523.7	1908.7	1593.9	1793.9	2102.2	2125.2	1898.9	1705.4	1525.0	1534.8
55°	11681.9	8359.7	1672.6	1505.3	1689.0	2000.6	2085.8	1849.7	1561.1	1436.5	1433.2
57.5°	11777.0	7956.3	1485.7	1413.5	1600.4	1892.3	2020.2	1702.1	1495.5	1390.5	1377.4
60°	11465.4	7251.2	1338.1	1315.1	1488.9	1780.8	1869.4	1623.4	1429.9	1344.6	1325.0
62.5°	10698.0	6519.8	1236.4	1269.2	1393.8	1659.5	1774.3	1567.6	1367.6	1308.6	1265.9
65°	8772.9	5362.1	1154.4	1180.7	1295.4	1541.4	1715.2	1505.3	1311.8	1256.1	1252.8
67.5°	6077.1	3696.1	1088.8	1138.0	1216.7	1456.1	1656.2	1436.5	1239.7	1220.0	1193.8
70°	3112.3	1971.0	1003.6	1042.9	1131.5	1347.9	1551.2	1364.3	1164.3	1161.0	1128.2
72.5°	1577.5	1154.4	905.2	964.2	1026.5	1206.9	1420.1	1269.2	1069.1	1033.1	980.6
73°	1364.3	1069.1	888.8	941.2	1000.3	1167.5	1380.7	1246.2	1056.0	1003.6	954.4
75°	993.7	842.9	796.9	849.4	895.3	1052.7	1249.5	1141.3	970.8	915.0	869.1
77.5°	744.5	649.4	662.5	721.5	760.9	908.4	1111.8	1033.1	878.9	803.5	783.8
80°	547.7	495.2	547.7	603.4	633.0	800.2	1013.4	895.3	741.2	655.9	639.5
82.5°	390.3	360.8	423.1	459.1	472.3	662.5	911.7	715.0	560.8	449.3	413.2
85°	223.0	219.7	285.3	282.0	291.9	387.0	600.2	475.5	360.8	275.5	268.9
87.5°	98.4	108.2	144.3	114.8	121.3	183.7	255.8	177.1	147.6	82.0	62.3
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)