

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: P478729

Luminaire Tested: **IFLD-L-SA7C-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478729
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

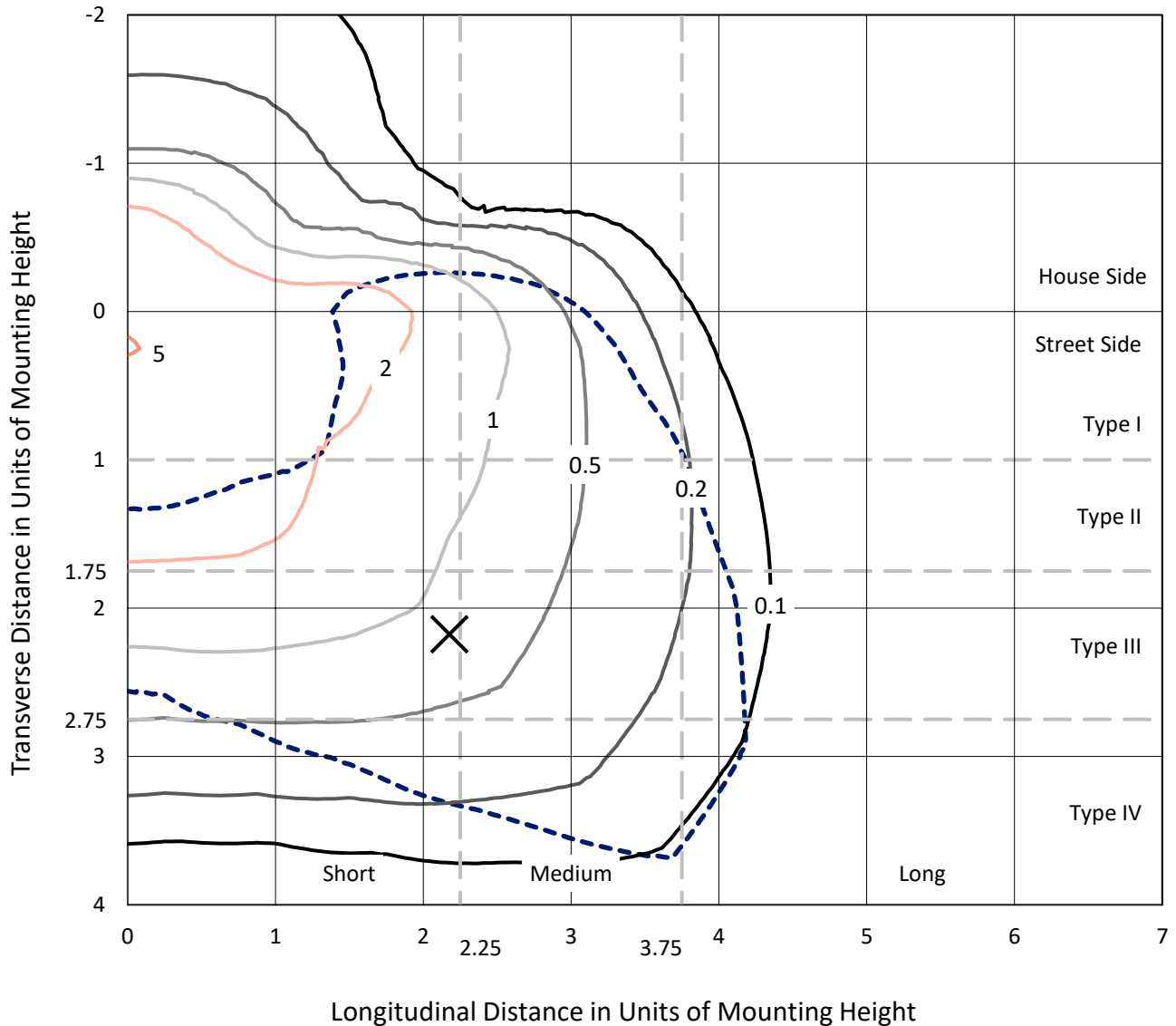
Lumens per Lamp: N/A
Luminaire Lumens: 35605 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

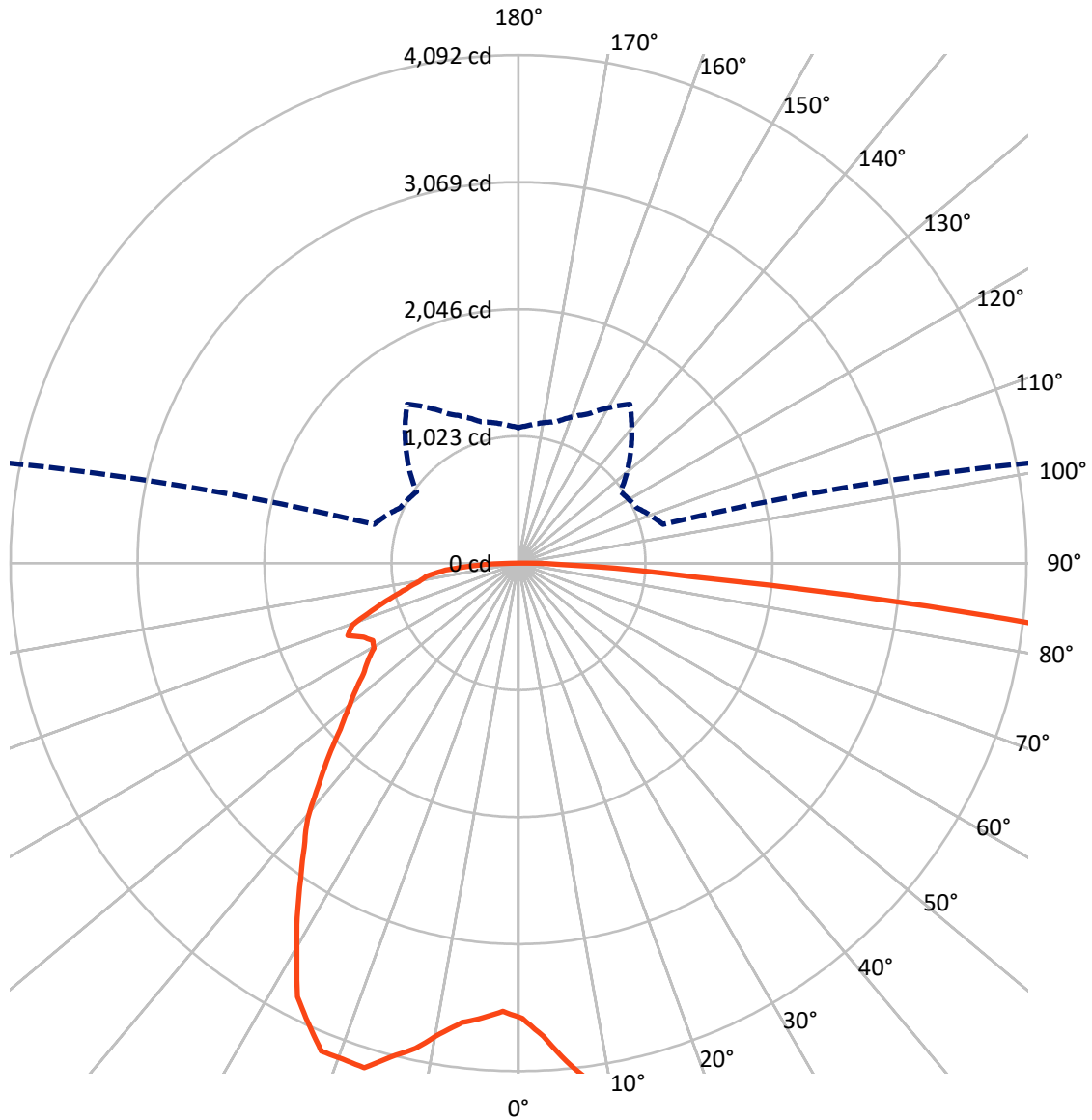
× Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7925.9	0.0	7925.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27679.1	0.0	27679.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	35605.0	0.0	35605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.2	1.1
10°-20°	1248.3	3.5
20°-30°	2108.1	5.9
30°-40°	2917.2	8.2
40°-50°	4172.8	11.7
50°-60°	6730.3	18.9
60°-70°	9926.2	27.9
70°-80°	7208.1	20.2
80°-90°	918.9	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°	35605.0	100.0
0°-180°	35605.0	100.0

Coefficient of Utilization



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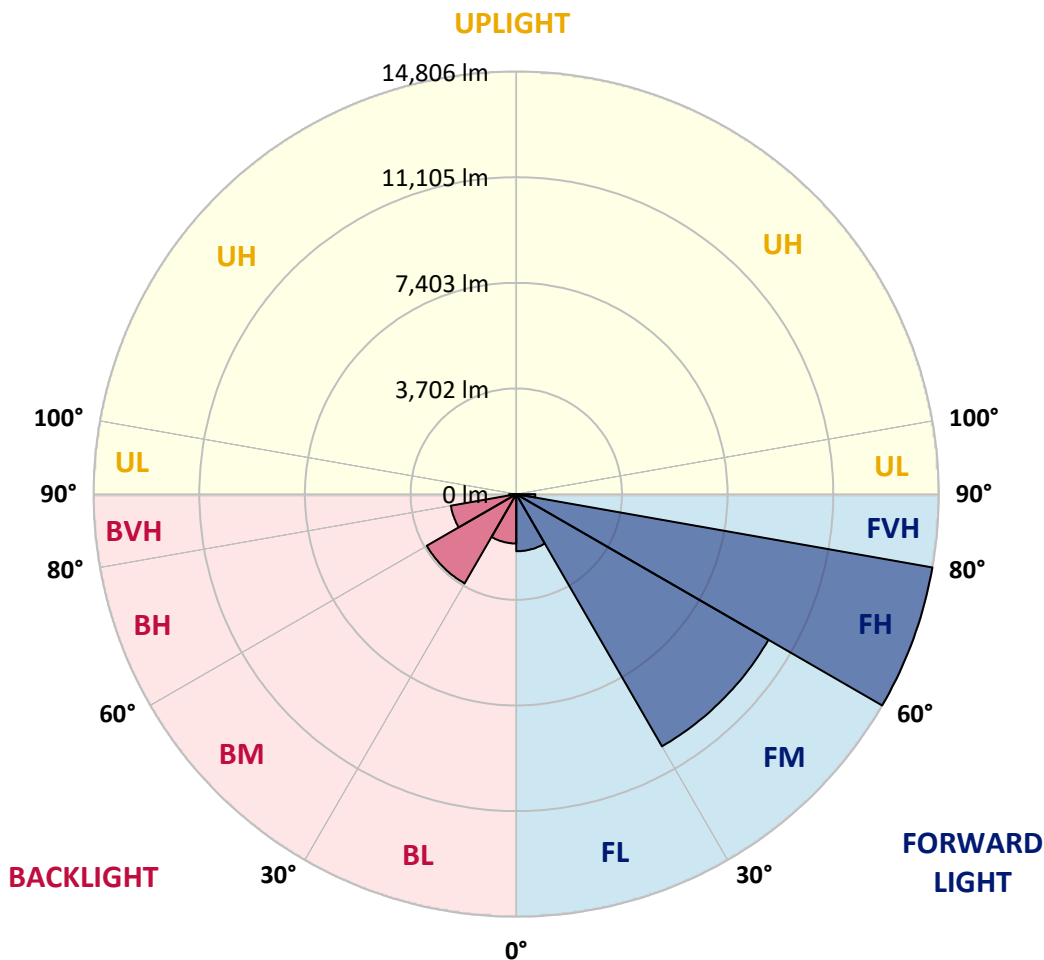
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2001.0	5.6			
FM (30°-60°)	10203.2	28.7			
FH (60°-80°)	14806.2	41.6			G5
FVH (80°-90°)	668.8	1.9			G4/750
BL (0°-30°)	1730.6	4.9	B3/2500		
BM (30°-60°)	3617.1	10.2	B3/5000		
BH (60°-80°)	2328.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	250.1	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7
2.5°	3862.5	3885.5	3862.5	3858.6	3820.3	3793.4	3816.4	3781.9	3743.5	3728.1	3693.5
5°	4215.7	4219.6	4177.3	4181.2	4100.5	4016.1	4031.4	3927.8	3816.4	3774.2	3705.1
7.5°	4576.6	4534.4	4473.0	4453.8	4327.1	4234.9	4223.4	4131.2	3958.5	3862.5	3766.5
10°	4810.8	4826.2	4726.4	4641.9	4534.4	4423.0	4419.2	4246.4	4146.6	4004.5	3881.7
12.5°	5018.2	5022.0	4937.5	4803.1	4668.8	4530.5	4549.7	4473.0	4304.0	4169.6	4046.8
15°	5179.4	5156.4	5064.2	4941.4	4799.3	4691.8	4680.3	4615.0	4473.0	4361.6	4158.1
17.5°	5225.5	5214.0	5121.8	4991.3	4853.1	4772.4	4803.1	4695.6	4638.1	4538.2	4342.4
20°	5137.2	5110.3	5094.9	4949.0	4849.2	4841.5	4814.7	4837.7	4741.7	4649.6	4507.5
22.5°	4975.9	4964.4	4956.7	4841.5	4795.5	4830.0	4876.1	4910.7	4895.3	4807.0	4645.7
25°	4810.8	4864.6	4814.7	4760.9	4826.2	4914.5	4903.0	5014.3	5014.3	4987.4	4853.1
27.5°	4926.0	4891.5	4853.1	4826.2	4849.2	4987.4	4979.8	5114.1	5164.1	5114.1	4960.6
30°	5214.0	5179.4	5068.1	4949.0	4918.3	5068.1	5106.5	5225.5	5248.5	5125.7	4995.1
32.5°	5755.3	5736.1	5559.5	5210.1	5022.0	5106.5	5125.7	5260.0	5240.8	5164.1	5110.3
35°	6557.8	6492.5	6246.8	5655.5	5240.8	5156.4	5106.5	5214.0	5286.9	5248.5	5198.6
37.5°	7437.0	7364.1	7060.7	6312.1	5636.3	5290.8	5252.4	5340.7	5425.1	5405.9	5302.3
40°	8277.8	8277.8	8005.2	7133.7	6223.7	5617.1	5624.8	5525.0	5601.8	5567.2	5586.4
42.5°	9107.2	9076.5	8965.1	8097.4	6853.4	6162.3	6039.5	5789.9	5928.1	5916.6	5943.5
45°	9948.0	9925.0	9894.3	8995.8	7755.7	6899.5	6834.2	6385.0	6511.7	6458.0	6573.1
47.5°	10619.9	10646.8	10646.8	9997.9	8719.4	7882.4	7786.4	7076.1	7318.0	7344.9	7371.7
50°	11192.0	11203.5	11192.0	10953.9	9794.4	9007.3	8811.5	8089.7	8331.6	8542.8	8788.5
52.5°	11982.9	11998.3	11944.5	11852.4	11253.4	10189.9	9971.0	9168.6	9663.9	9886.6	10328.1
55°	12958.1	12843.0	12743.1	12812.2	12654.8	11491.5	11264.9	10282.0	11026.9	11322.5	12205.6
57.5°	13138.6	13238.4	13491.8	14040.9	14267.4	12758.5	12627.9	11648.9	12566.5	12823.8	14298.1
60°	13775.9	13610.8	14232.8	15423.1	15676.5	14409.4	14275.1	13146.3	14098.5	14367.2	16229.3
62.5°	14194.4	14186.8	15108.2	16521.1	17097.1	16121.8	15849.2	15092.9	15753.3	16014.3	18333.4
65°	14071.6	14182.9	15818.5	17166.2	18283.4	18068.4	17911.0	16766.9	17638.4	17615.4	19704.0
67.5°	12950.5	13265.3	15369.3	17630.7	20049.6	20441.2	20391.3	19120.4	19170.4	18682.8	20314.5
70°	11395.5	11288.0	13468.8	17147.0	20932.7	23255.5	23244.0	20871.2	20548.7	18917.0	18563.7
72°	8753.9	8634.9	10427.9	14724.3	20468.1	24380.5	24726.0	22084.5	20533.4	17945.6	15334.8
72.5°	7947.7	7844.0	9629.3	13860.4	19953.6	24672.3	24511.0	22130.6	20372.1	17488.7	14325.0
75°	3659.0	3540.0	4810.8	8485.2	15565.1	21861.8	22410.9	20710.0	17792.0	13921.8	8581.2
77.5°	1090.4	1055.8	1547.3	3424.8	9045.7	16106.5	16317.7	15626.6	12420.6	7625.1	3182.9
80°	606.6	610.5	798.6	1282.4	3977.7	9310.7	10070.9	9652.4	6093.2	2518.7	1059.7
82.5°	337.9	357.1	499.1	760.2	1827.6	4273.3	4599.7	4434.6	2203.8	1182.5	579.8
85°	176.6	184.3	261.1	407.0	1036.7	1351.5	1389.9	1489.7	1144.2	806.3	311.0
87.5°	69.1	69.1	96.0	168.9	383.9	418.5	376.3	456.9	656.5	522.2	153.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7
2.5°	3724.3	3693.5	3689.7	3639.8	3655.2	3612.9	3616.8	3609.1	3612.9	3605.2	3586.0
5°	3705.1	3682.0	3616.8	3659.0	3620.6	3674.4	3716.6	3701.2	3712.7	3708.9	3712.7
7.5°	3731.9	3701.2	3693.5	3670.5	3705.1	3728.1	3762.7	3858.6	3851.0	3862.5	3885.5
10°	3812.6	3778.0	3755.0	3789.5	3770.3	3843.3	3881.7	3931.6	4019.9	4023.7	3977.7
12.5°	3970.0	3947.0	3900.9	3908.6	3973.8	3996.9	4019.9	4050.6	4108.2	4096.7	4138.9
15°	4150.4	4100.5	4073.7	4066.0	4081.3	4108.2	4104.4	4135.1	4165.8	4192.7	4181.2
17.5°	4281.0	4215.7	4223.4	4261.8	4257.9	4250.3	4200.4	4185.0	4200.4	4215.7	4208.0
20°	4415.4	4423.0	4365.5	4330.9	4315.5	4238.8	4200.4	4154.3	4108.2	4131.2	4165.8
22.5°	4584.3	4549.7	4465.3	4361.6	4284.8	4238.8	4119.7	4039.1	4039.1	4062.1	4050.6
25°	4776.3	4703.3	4557.4	4369.3	4273.3	4077.5	3993.0	3981.5	3950.8	3985.3	4000.7
27.5°	4926.0	4860.7	4661.1	4342.4	4077.5	3920.1	3870.2	3854.8	3904.7	3908.6	3970.0
30°	4987.4	4968.2	4676.4	4273.3	3877.8	3624.4	3593.7	3662.8	3716.6	3797.2	3801.1
32.5°	5068.1	5075.7	4699.5	4112.0	3616.8	3363.4	3317.3	3401.8	3555.3	3620.6	3670.5
35°	5202.5	5240.8	4680.3	3912.4	3340.3	3098.4	3090.8	3113.8	3263.5	3378.7	3444.0
37.5°	5436.7	5429.0	4676.4	3674.4	3121.5	2868.1	2806.6	2814.3	2914.1	3010.1	2998.6
40°	5751.5	5720.8	4664.9	3363.4	2837.4	2672.3	2568.6	2530.2	2522.5	2495.6	2503.3
42.5°	6181.5	6120.1	4661.1	3048.5	2580.1	2403.5	2330.5	2230.7	2157.8	2019.5	2027.2
45°	6780.5	6673.0	4561.3	2752.9	2326.7	2180.8	2069.5	1996.5	1839.1	1666.3	1666.3
47.5°	7705.8	7356.4	4565.1	2426.5	2081.0	1962.0	1885.2	1758.5	1589.5	1451.3	1436.0
50°	9068.8	8270.2	4434.6	2169.3	1881.3	1800.7	1720.1	1574.2	1412.9	1316.9	1328.4
52.5°	10827.2	9633.2	4430.7	1938.9	1723.9	1666.3	1578.0	1447.5	1328.4	1267.0	1244.0
55°	12923.6	11437.7	4568.9	1750.8	1562.7	1531.9	1493.5	1386.0	1270.9	1217.1	1213.3
57.5°	15069.8	13200.0	4791.6	1616.4	1424.4	1447.5	1420.6	1336.1	1244.0	1182.5	1174.9
60°	16978.0	14597.6	4342.4	1455.2	1301.6	1351.5	1389.9	1316.9	1267.0	1263.2	1236.3
62.5°	18417.8	15196.5	3301.9	1332.3	1236.3	1328.4	1432.1	1478.2	1455.2	1485.9	1489.7
65°	18943.8	14835.6	2273.0	1267.0	1186.4	1382.2	1612.6	1597.2	1462.8	1405.2	1436.0
67.5°	18206.7	13372.8	1685.5	1190.2	1151.8	1493.5	1716.2	1524.3	1320.8	1313.1	1290.1
70°	15657.3	11334.0	1374.5	1109.6	1094.2	1432.1	1670.2	1412.9	1244.0	1194.1	1171.0
72°	12474.4	8826.9	1205.6	1052.0	1002.1	1278.5	1562.7	1324.6	1178.7	1117.3	1090.4
72.5°	11387.8	8181.9	1182.5	1025.1	982.9	1244.0	1508.9	1297.7	1163.4	1109.6	1067.4
75°	6246.8	4188.8	1040.5	940.7	829.3	1075.0	1397.6	1217.1	1098.1	1021.3	1013.6
77.5°	2322.9	1624.1	898.4	833.2	718.0	929.1	1270.9	1155.7	998.3	902.3	883.1
80°	890.8	856.2	733.3	702.6	602.8	814.0	1171.0	1036.7	848.5	752.5	721.8
82.5°	541.4	499.1	556.7	549.0	460.7	741.0	1101.9	971.4	752.5	610.5	591.3
85°	295.6	295.6	387.8	372.4	322.5	591.3	833.2	645.0	476.1	391.6	399.3
87.5°	130.5	153.6	207.3	195.8	176.6	334.0	407.0	341.7	238.0	161.3	172.8
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)