

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: P478458

Luminaire Tested: **IFLD-L-SA7E-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478458
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

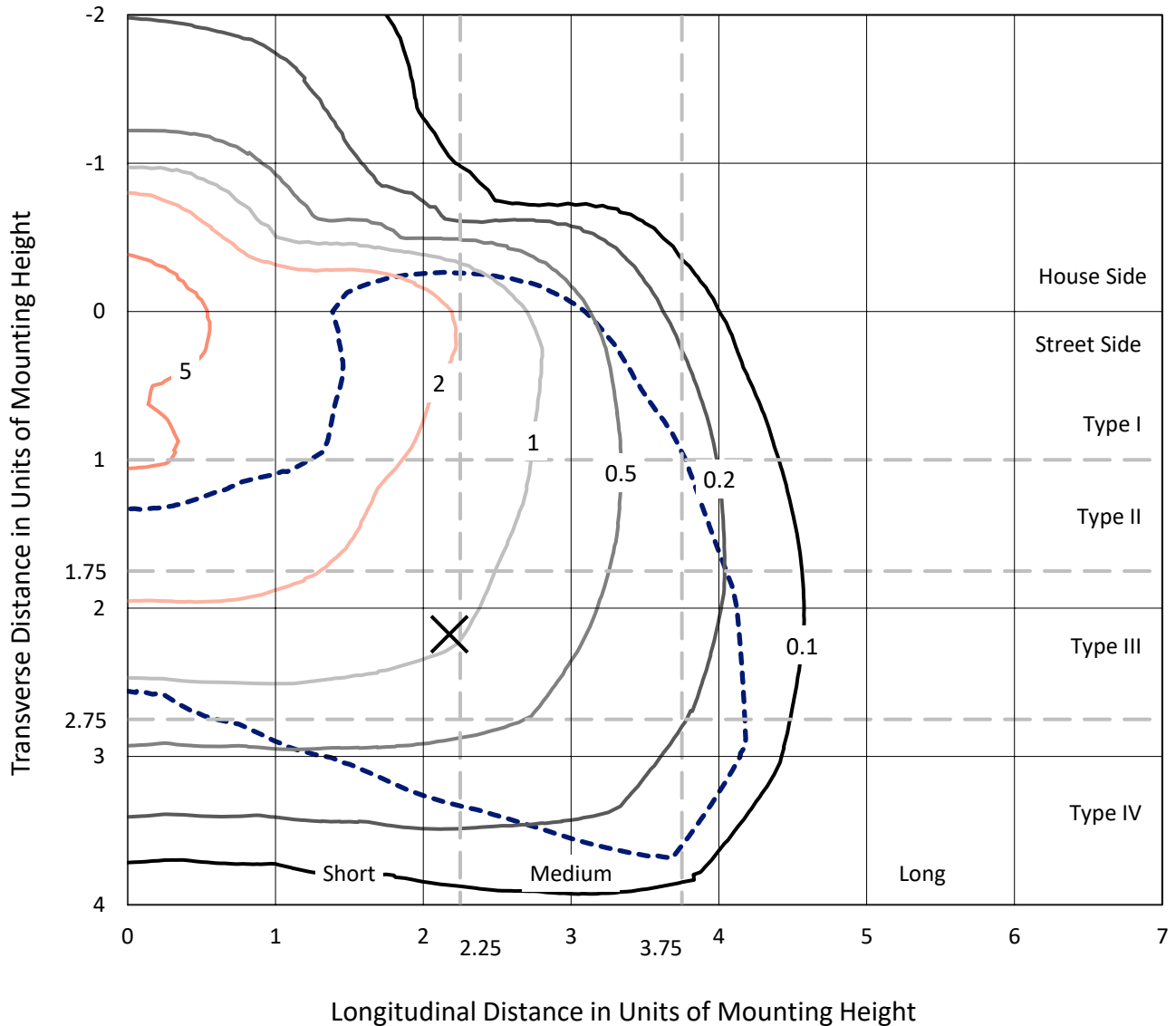
Lumens per Lamp: N/A
Luminaire Lumens: 47719.3 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

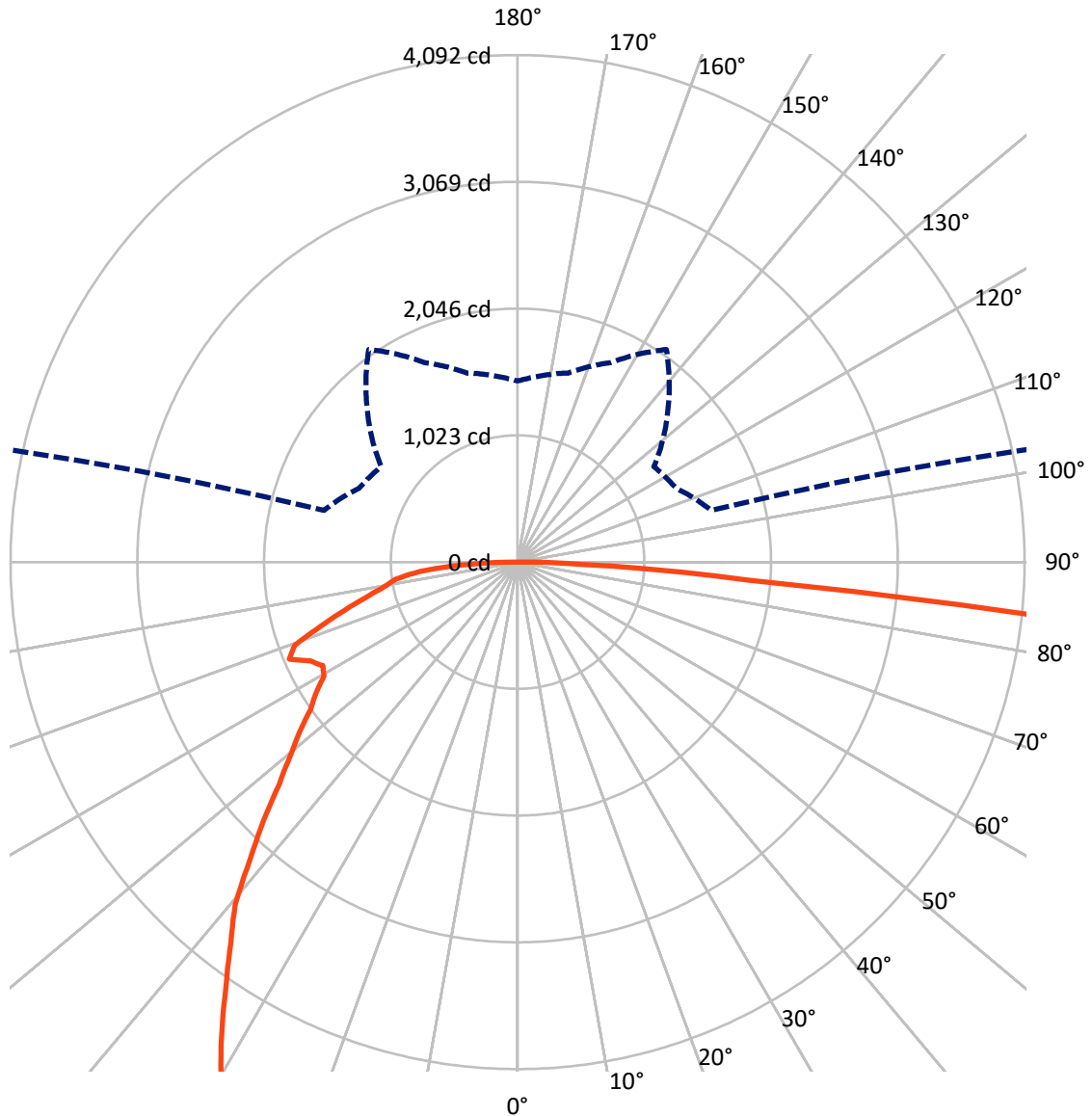
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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	10622.6	0.0	10622.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	37096.7	0.0	37096.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	47719.3	0.0	47719.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.9	1.1
10°-20°	1673.1	3.5
20°-30°	2825.3	5.9
30°-40°	3909.8	8.2
40°-50°	5592.6	11.7
50°-60°	9020.2	18.9
60°-70°	13303.4	27.9
70°-80°	9660.6	20.2
80°-90°	1231.5	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°	47719.3	100.0
0°-180°	47719.3	100.0

Coefficient of Utilization



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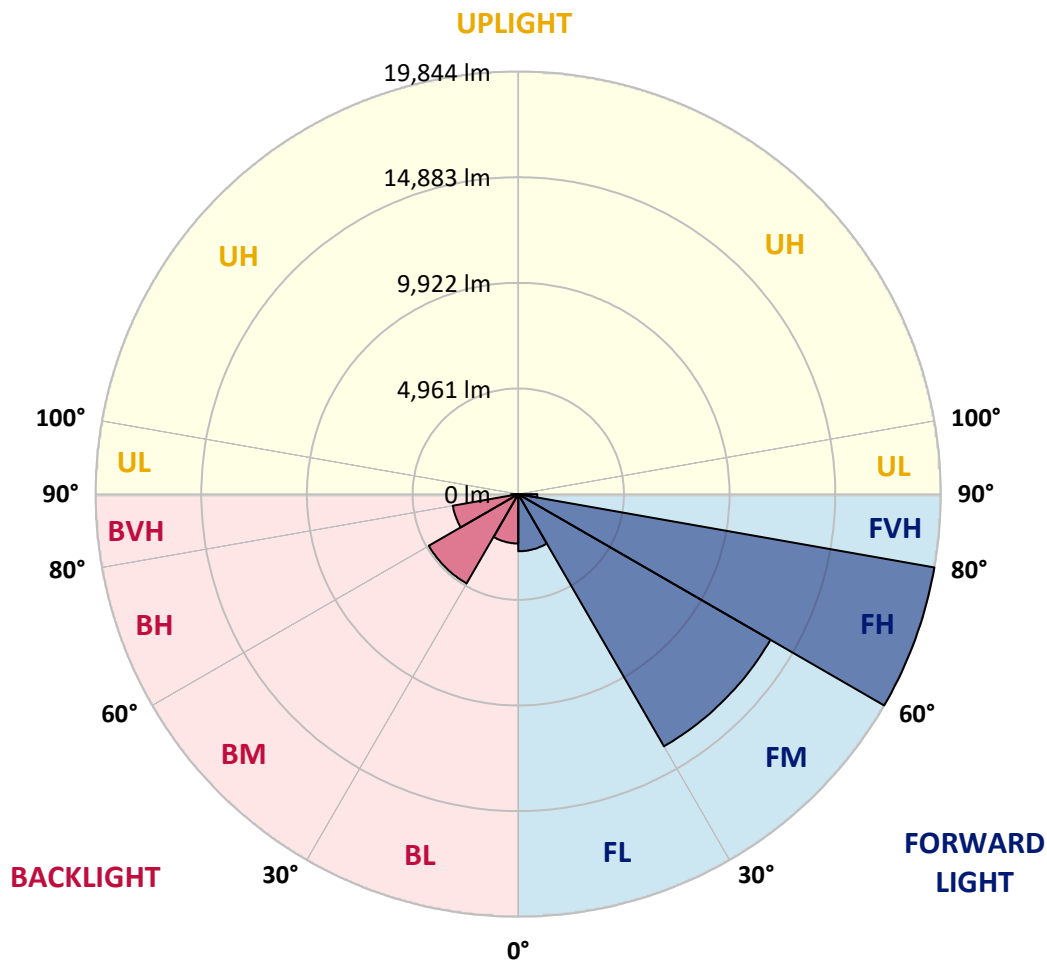
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2681.9	5.6			
FM (30°-60°)	13674.7	28.7			
FH (60°-80°)	19843.8	41.6			G5
FVH (80°-90°)	896.3	1.9			G5
BL (0°-30°)	2319.4	4.9	B3/2500		
BM (30°-60°)	4847.8	10.2	B3/5000		
BH (60°-80°)	3120.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	335.1	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2
2.5°	5176.7	5207.5	5176.7	5171.5	5120.1	5084.0	5114.9	5068.6	5017.1	4996.6	4950.2
5°	5650.1	5655.2	5598.6	5603.8	5495.7	5382.5	5403.1	5264.1	5114.9	5058.3	4965.7
7.5°	6133.8	6077.2	5994.8	5969.1	5799.3	5675.8	5660.4	5536.9	5305.3	5176.7	5048.0
10°	6447.7	6468.2	6334.5	6221.2	6077.2	5927.9	5922.8	5691.2	5557.4	5367.0	5202.4
12.5°	6725.5	6730.7	6617.5	6437.4	6257.3	6072.0	6097.7	5994.8	5768.4	5588.3	5423.7
15°	6941.7	6910.8	6787.3	6622.6	6432.2	6288.1	6272.7	6185.2	5994.8	5845.6	5572.9
17.5°	7003.4	6988.0	6864.5	6689.5	6504.3	6396.2	6437.4	6293.3	6216.1	6082.3	5819.9
20°	6885.1	6849.0	6828.4	6632.9	6499.1	6488.8	6452.8	6483.7	6355.0	6231.5	6041.1
22.5°	6668.9	6653.5	6643.2	6488.8	6427.1	6473.4	6535.1	6581.5	6560.9	6442.5	6226.4
25°	6447.7	6519.7	6452.8	6380.8	6468.2	6586.6	6571.2	6720.4	6720.4	6684.4	6504.3
27.5°	6602.0	6555.7	6504.3	6468.2	6499.1	6684.4	6674.1	6854.2	6921.1	6854.2	6648.3
30°	6988.0	6941.7	6792.4	6632.9	6591.7	6792.4	6843.9	7003.4	7034.3	6869.6	6694.7
32.5°	7713.5	7687.8	7451.1	6982.8	6730.7	6843.9	6869.6	7049.7	7024.0	6921.1	6849.0
35°	8789.0	8701.5	8372.2	7579.7	7024.0	6910.8	6843.9	6988.0	7085.7	7034.3	6967.4
37.5°	9967.4	9869.6	9463.1	8459.7	7554.0	7090.9	7039.4	7157.8	7271.0	7245.3	7106.3
40°	11094.3	11094.3	10728.9	9560.9	8341.3	7528.3	7538.6	7404.8	7507.7	7461.4	7487.1
42.5°	12205.8	12164.6	12015.4	10852.4	9185.2	8259.0	8094.3	7759.8	7945.1	7929.6	7965.7
45°	13332.7	13301.8	13260.7	12056.6	10394.5	9247.0	9159.5	8557.4	8727.2	8655.2	8809.6
47.5°	14233.2	14269.2	14269.2	13399.6	11686.1	10564.3	10435.6	9483.7	9807.9	9843.9	9879.9
50°	14999.9	15015.4	14999.9	14680.9	13126.9	12072.0	11809.6	10842.2	11166.3	11449.4	11778.7
52.5°	16060.0	16080.6	16008.5	15885.0	15082.3	13656.9	13363.6	12288.1	12951.9	13250.4	13842.1
55°	17367.0	17212.6	17078.8	17171.5	16960.5	15401.3	15097.7	13780.4	14778.7	15174.9	16358.4
57.5°	17608.9	17742.6	18082.3	18818.1	19121.7	17099.4	16924.5	15612.3	16842.1	17186.9	19162.9
60°	18463.1	18241.8	19075.4	20670.6	21010.2	19312.1	19132.0	17619.1	18895.3	19255.5	21751.2
62.5°	19023.9	19013.7	20248.6	22142.3	22914.2	21607.1	21241.8	20228.1	21113.1	21463.0	24571.1
65°	18859.3	19008.5	21200.6	23006.8	24504.2	24216.0	24005.1	22471.6	23639.7	23608.8	26408.1
67.5°	17356.7	17778.7	20598.6	23629.4	26871.3	27396.1	27329.2	25626.0	25692.9	25039.4	27226.3
70°	15272.7	15128.6	18051.4	22981.1	28054.8	31168.0	31152.5	27972.5	27540.2	25353.3	24879.8
72°	11732.4	11572.9	13975.9	19734.1	27432.1	32675.7	33138.8	29598.5	27519.6	24051.4	20552.2
72.5°	10651.8	10512.8	12905.6	18576.3	26742.6	33066.8	32850.7	29660.3	27303.5	23439.0	19198.9
75°	4903.9	4744.4	6447.7	11372.2	20861.0	29300.1	30035.9	27756.3	23845.5	18658.6	11500.8
77.5°	1461.4	1415.1	2073.7	4590.0	12123.5	21586.5	21869.6	20943.3	16646.6	10219.5	4265.9
80°	813.0	818.2	1070.3	1718.7	5331.0	12478.5	13497.4	12936.5	8166.4	3375.6	1420.2
82.5°	452.8	478.6	669.0	1018.9	2449.4	5727.3	6164.6	5943.4	2953.7	1584.9	777.0
85°	236.7	247.0	349.9	545.5	1389.4	1811.3	1862.8	1996.6	1533.4	1080.6	416.8
87.5°	92.6	92.6	128.6	226.4	514.6	560.9	504.3	612.3	879.9	699.8	205.8
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°	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2	4914.2
2.5°	4991.4	4950.2	4945.1	4878.2	4898.8	4842.2	4847.3	4837.0	4842.2	4831.9	4806.2
5°	4965.7	4934.8	4847.3	4903.9	4852.5	4924.5	4981.1	4960.5	4976.0	4970.8	4976.0
7.5°	5001.7	4960.5	4950.2	4919.4	4965.7	4996.6	5042.9	5171.5	5161.2	5176.7	5207.5
10°	5109.8	5063.4	5032.6	5078.9	5053.2	5150.9	5202.4	5269.3	5387.6	5392.8	5331.0
12.5°	5320.7	5289.9	5228.1	5238.4	5325.9	5356.8	5387.6	5428.8	5506.0	5490.5	5547.2
15°	5562.6	5495.7	5459.7	5449.4	5470.0	5506.0	5500.8	5542.0	5583.2	5619.2	5603.8
17.5°	5737.5	5650.1	5660.4	5711.8	5706.7	5696.4	5629.5	5608.9	5629.5	5650.1	5639.8
20°	5917.6	5927.9	5850.8	5804.4	5783.9	5680.9	5629.5	5567.7	5506.0	5536.9	5583.2
22.5°	6144.1	6097.7	5984.5	5845.6	5742.7	5680.9	5521.4	5413.4	5413.4	5444.2	5428.8
25°	6401.3	6303.6	6108.0	5855.9	5727.3	5464.8	5351.6	5336.2	5295.0	5341.3	5361.9
27.5°	6602.0	6514.6	6247.0	5819.9	5464.8	5253.8	5186.9	5166.4	5233.3	5238.4	5320.7
30°	6684.4	6658.6	6267.6	5727.3	5197.2	4857.6	4816.4	4909.1	4981.1	5089.2	5094.3
32.5°	6792.4	6802.7	6298.4	5511.1	4847.3	4507.7	4446.0	4559.2	4765.0	4852.5	4919.4
35°	6972.5	7024.0	6272.7	5243.5	4476.8	4152.6	4142.4	4173.2	4373.9	4528.3	4615.8
37.5°	7286.4	7276.1	6267.6	4924.5	4183.5	3843.9	3761.6	3771.9	3905.6	4034.3	4018.9
40°	7708.4	7667.2	6252.1	4507.7	3802.7	3581.5	3442.5	3391.1	3380.8	3344.8	3355.0
42.5°	8284.7	8202.4	6247.0	4085.7	3458.0	3221.3	3123.5	2989.7	2891.9	2706.7	2717.0
45°	9087.4	8943.4	6113.2	3689.5	3118.3	2922.8	2773.6	2675.8	2464.8	2233.3	2233.3
47.5°	10327.6	9859.3	6118.3	3252.1	2789.0	2629.5	2526.6	2356.8	2130.4	1945.1	1924.5
50°	12154.3	11084.0	5943.4	2907.4	2521.4	2413.4	2305.3	2109.8	1893.6	1765.0	1780.4
52.5°	14511.1	12910.8	5938.2	2598.6	2310.5	2233.3	2114.9	1940.0	1780.4	1698.1	1667.2
55°	17320.7	15329.3	6123.5	2346.5	2094.3	2053.2	2001.7	1857.6	1703.3	1631.2	1626.1
57.5°	20197.2	17691.2	6421.9	2166.4	1909.1	1940.0	1903.9	1790.7	1667.2	1584.9	1574.6
60°	22754.6	19564.3	5819.9	1950.3	1744.4	1811.3	1862.8	1765.0	1698.1	1693.0	1656.9
62.5°	24684.3	20367.0	4425.4	1785.6	1656.9	1780.4	1919.4	1981.1	1950.3	1991.4	1996.6
65°	25389.3	19883.3	3046.3	1698.1	1590.0	1852.5	2161.2	2140.6	1960.5	1883.4	1924.5
67.5°	24401.3	17922.7	2259.0	1595.2	1543.7	2001.7	2300.2	2042.9	1770.1	1759.9	1729.0
70°	20984.5	15190.3	1842.2	1487.1	1466.5	1919.4	2238.4	1893.6	1667.2	1600.3	1569.5
72°	16718.6	11830.1	1615.8	1409.9	1343.0	1713.5	2094.3	1775.3	1579.8	1497.4	1461.4
72.5°	15262.4	10965.7	1584.9	1373.9	1317.3	1667.2	2022.3	1739.3	1559.2	1487.1	1430.5
75°	8372.2	5614.0	1394.5	1260.7	1111.5	1440.8	1873.1	1631.2	1471.7	1368.8	1358.5
77.5°	3113.2	2176.7	1204.1	1116.6	962.3	1245.3	1703.3	1548.9	1337.9	1209.3	1183.5
80°	1193.8	1147.5	982.8	941.7	807.9	1090.9	1569.5	1389.4	1137.2	1008.6	967.4
82.5°	725.6	669.0	746.1	735.8	617.5	993.1	1476.8	1301.9	1008.6	818.2	792.5
85°	396.2	396.2	519.7	499.1	432.2	792.5	1116.6	864.5	638.1	524.9	535.2
87.5°	175.0	205.8	277.9	262.4	236.7	447.7	545.5	458.0	319.0	216.1	231.6
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)