

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: P478419

Luminaire Tested: **IFLD-L-SA7E-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478419
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

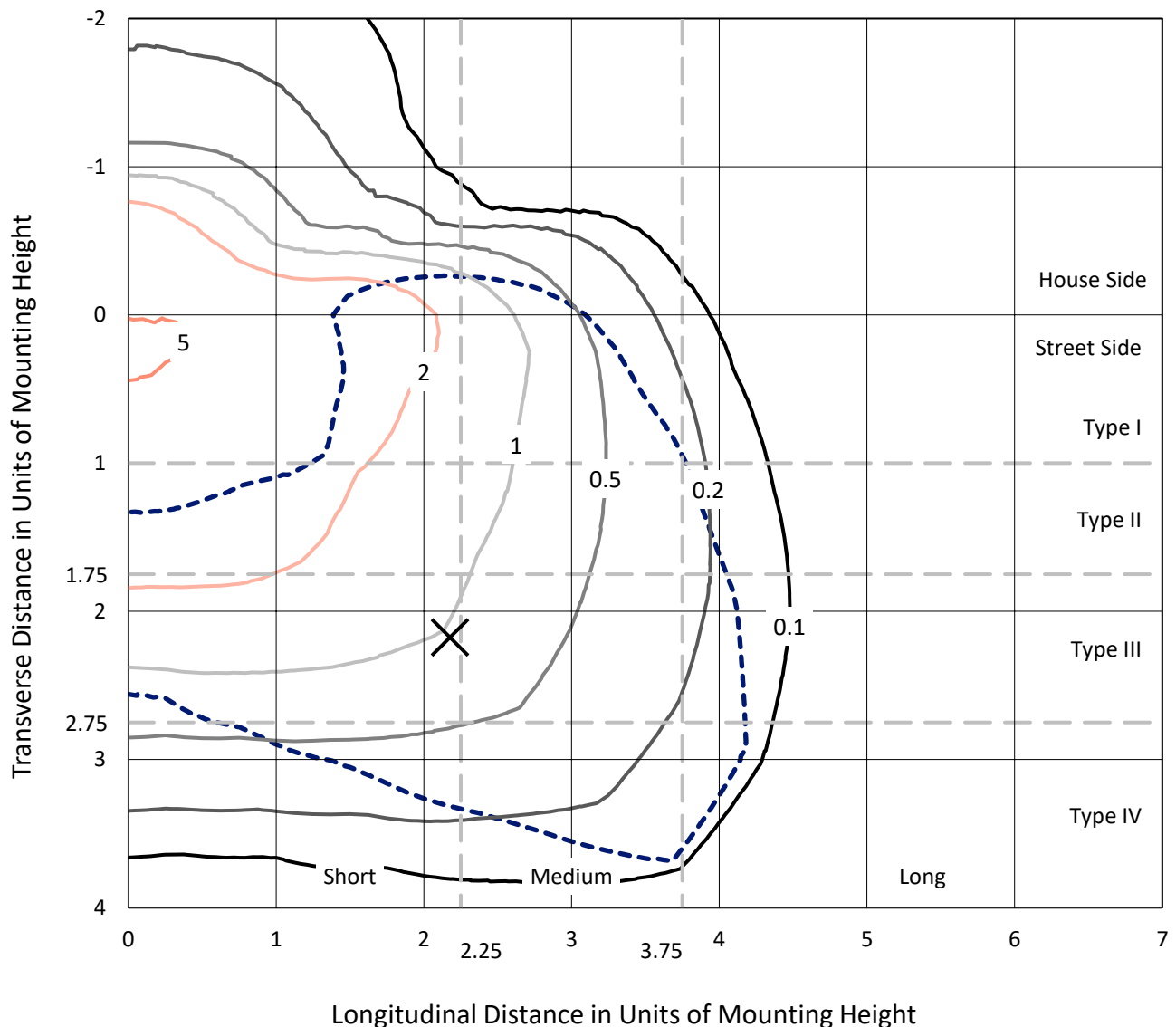
Lumens per Lamp: N/A
Luminaire Lumens: 42030.4 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

REPORT NUMBER: P478419
 CATALOG NUMBER: IFLD-L-SA7E-722-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

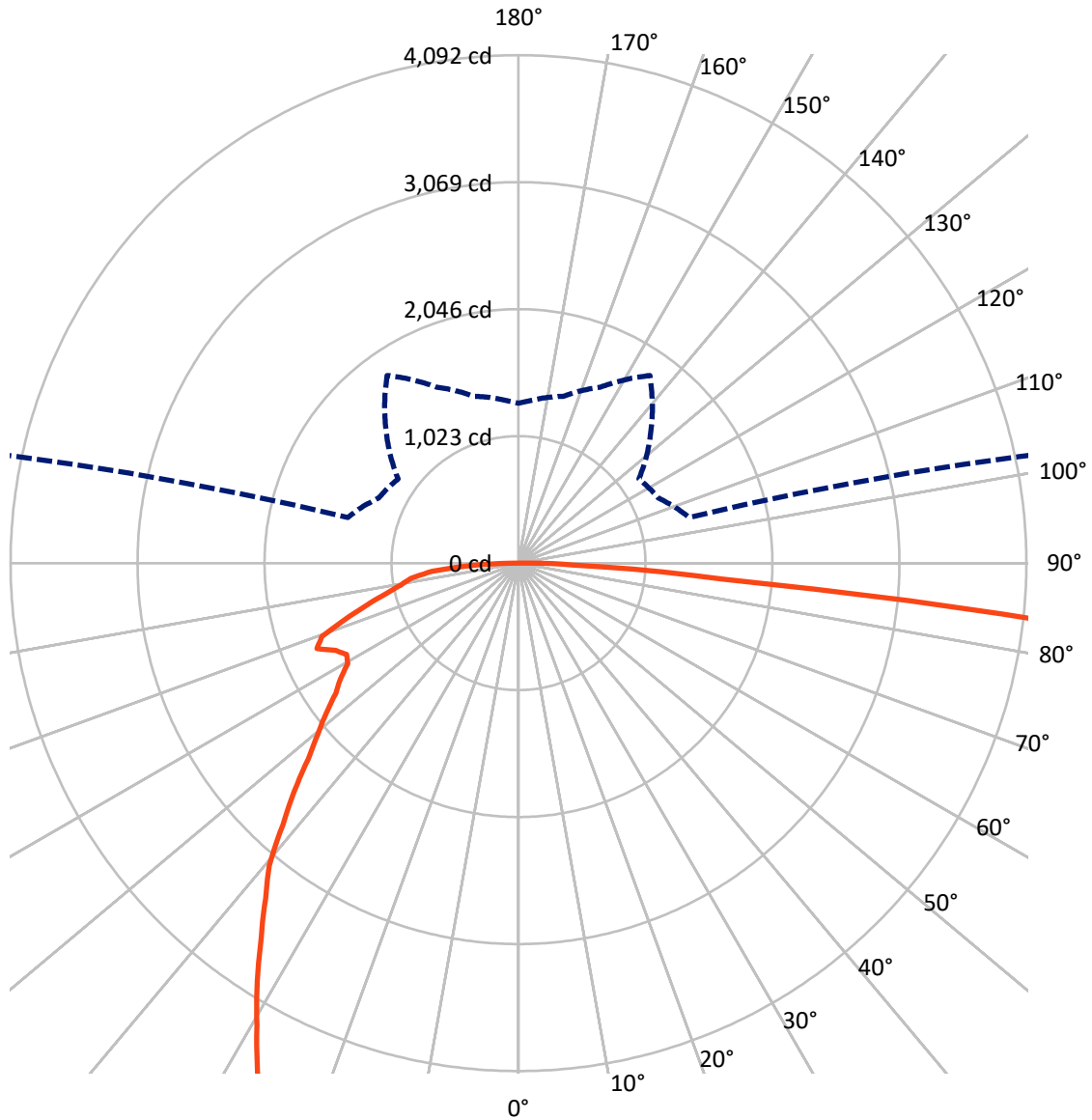
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P478419
CATALOG NUMBER: IFLD-L-SA7E-722-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478419
 CATALOG NUMBER: IFLD-L-SA7E-722-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9356.2	0.0	9356.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	32674.2	0.0	32674.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	42030.4	0.0	42030.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.9	1.1
10°-20°	1473.6	3.5
20°-30°	2488.5	5.9
30°-40°	3443.7	8.2
40°-50°	4925.8	11.7
50°-60°	7944.8	18.9
60°-70°	11717.5	27.9
70°-80°	8508.9	20.2
80°-90°	1084.7	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°	42030.4	100.0
0°-180°	42030.4	100.0



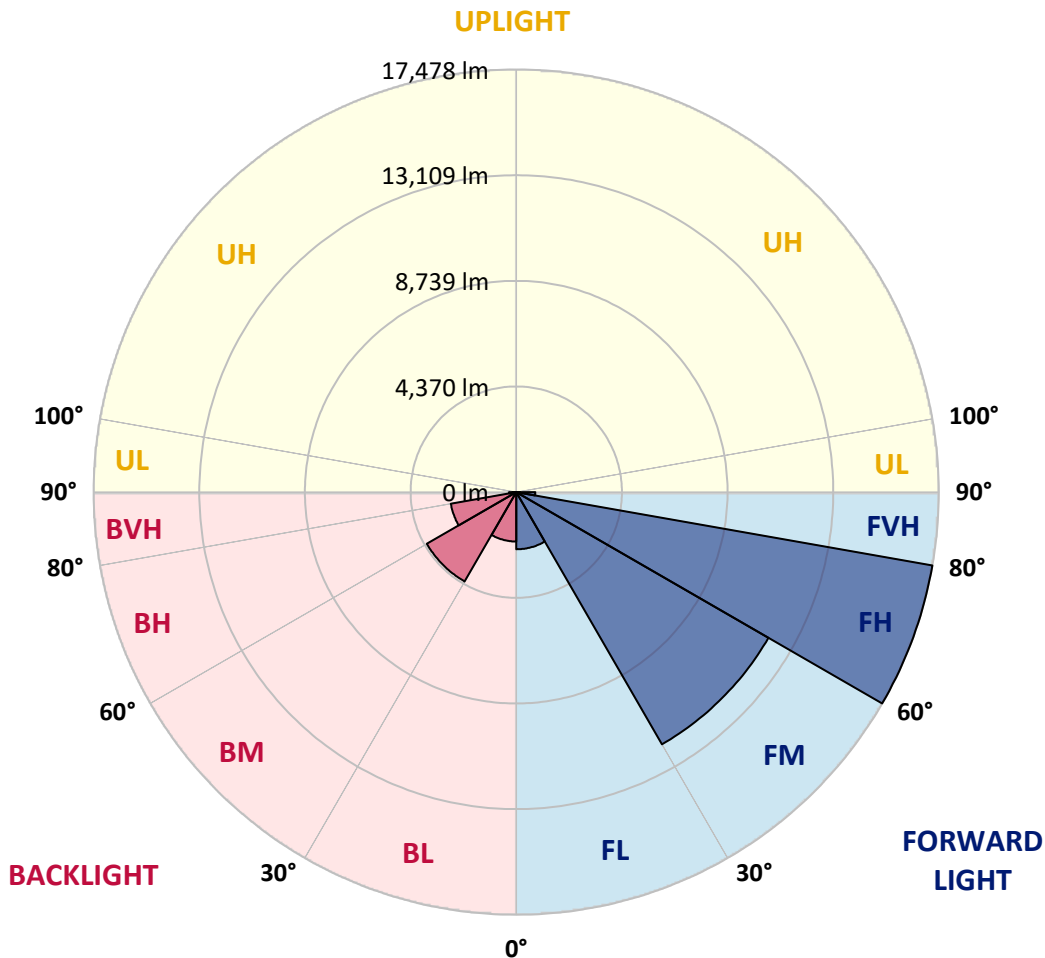
REPORT NUMBER: P478419
 CATALOG NUMBER: IFLD-L-SA7E-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2362.1	5.6			
FM (30°-60°)	12044.4	28.7			
FH (60°-80°)	17478.1	41.6			G5
FVH (80°-90°)	789.5	1.9			G5
BL (0°-30°)	2042.9	4.9	B3/2500		
BM (30°-60°)	4269.9	10.2	B3/5000		
BH (60°-80°)	2748.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	295.2	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





REPORT NUMBER: P478419

CATALOG NUMBER: IFLD-L-SA7E-722-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4
2.5°	4559.5	4586.7	4559.5	4555.0	4509.7	4477.9	4505.1	4464.3	4419.0	4400.9	4360.1
5°	4976.5	4981.0	4931.2	4935.7	4840.5	4740.8	4758.9	4636.6	4505.1	4455.3	4373.7
7.5°	5402.5	5352.7	5280.2	5257.5	5107.9	4999.2	4985.6	4876.8	4672.8	4559.5	4446.2
10°	5679.0	5697.1	5579.3	5479.6	5352.7	5221.2	5216.7	5012.7	4894.9	4727.2	4582.2
12.5°	5923.7	5928.3	5828.6	5669.9	5511.3	5348.1	5370.8	5280.2	5080.7	4922.1	4777.1
15°	6114.1	6086.9	5978.1	5833.1	5665.4	5538.5	5524.9	5447.9	5280.2	5148.7	4908.5
17.5°	6168.5	6154.9	6046.1	5892.0	5728.9	5633.7	5669.9	5543.0	5475.0	5357.2	5126.1
20°	6064.2	6032.5	6014.4	5842.2	5724.3	5715.3	5683.5	5710.7	5597.4	5488.6	5320.9
22.5°	5873.9	5860.3	5851.2	5715.3	5660.9	5701.7	5756.0	5796.8	5778.7	5674.5	5484.1
25°	5679.0	5742.5	5683.5	5620.1	5697.1	5801.4	5787.8	5919.2	5919.2	5887.5	5728.9
27.5°	5815.0	5774.2	5728.9	5697.1	5724.3	5887.5	5878.4	6037.1	6096.0	6037.1	5855.8
30°	6154.9	6114.1	5982.7	5842.2	5805.9	5982.7	6028.0	6168.5	6195.7	6050.7	5896.6
32.5°	6794.0	6771.3	6562.8	6150.4	5928.3	6028.0	6050.7	6209.3	6186.6	6096.0	6032.5
35°	7741.2	7664.2	7374.1	6676.1	6186.6	6086.9	6028.0	6154.9	6241.0	6195.7	6136.8
37.5°	8779.1	8693.0	8334.9	7451.1	6653.4	6245.5	6200.2	6304.5	6404.2	6381.5	6259.1
40°	9771.7	9771.7	9449.9	8421.1	7346.9	6630.8	6639.9	6522.0	6612.7	6571.9	6594.5
42.5°	10750.7	10714.4	10583.0	9558.7	8090.2	7274.4	7129.3	6834.7	6997.9	6984.3	7016.0
45°	11743.2	11716.1	11679.8	10619.2	9155.3	8144.6	8067.5	7537.3	7686.8	7623.4	7759.3
47.5°	12536.4	12568.1	12568.1	11802.2	10292.9	9304.9	9191.5	8353.1	8638.6	8670.3	8702.1
50°	13211.7	13225.3	13211.7	12930.7	11562.0	10632.8	10401.7	9549.6	9835.1	10084.4	10374.5
52.5°	14145.4	14163.5	14100.1	13991.3	13284.2	12028.8	11770.4	10823.2	11407.9	11670.7	12191.9
55°	15296.6	15160.6	15042.8	15124.4	14938.5	13565.2	13297.8	12137.6	13016.8	13365.8	14408.3
57.5°	15509.6	15627.4	15926.6	16574.7	16842.1	15060.9	14906.8	13751.1	14834.3	15138.0	16878.4
60°	16262.0	16067.1	16801.3	18206.3	18505.5	17009.8	16851.2	15518.7	16642.7	16959.9	19158.1
62.5°	16756.0	16746.9	17834.7	19502.6	20182.4	19031.2	18709.4	17816.6	18596.1	18904.3	21641.8
65°	16611.0	16742.4	18673.2	20264.0	21582.9	21329.1	21143.3	19792.7	20821.5	20794.3	23259.9
67.5°	15287.5	15659.2	18142.9	20812.4	23667.8	24130.1	24071.2	22571.0	22629.9	22054.3	23980.5
70°	13451.9	13325.0	15899.4	20241.4	24710.2	27452.3	27438.7	24637.7	24257.0	22330.8	21913.8
72°	10333.7	10193.2	12309.8	17381.5	24161.8	28780.2	29188.2	26069.9	24238.9	21184.1	18102.1
72.5°	9381.9	9259.5	11367.1	16361.7	23554.5	29124.7	28934.3	26124.3	24048.5	20644.7	16910.1
75°	4319.3	4178.8	5679.0	10016.4	18374.0	25807.0	26455.2	24447.3	21002.8	16434.2	10129.7
77.5°	1287.2	1246.4	1826.5	4042.8	10678.2	19013.1	19262.4	18446.6	14662.1	9001.2	3757.3
80°	716.1	720.6	942.7	1513.8	4695.5	10990.9	11888.3	11394.3	7192.8	2973.2	1250.9
82.5°	398.8	421.5	589.2	897.4	2157.4	5044.5	5429.7	5234.8	2601.6	1396.0	684.4
85°	208.5	217.6	308.2	480.4	1223.7	1595.4	1640.7	1758.5	1350.6	951.8	367.1
87.5°	81.6	81.6	113.3	199.4	453.2	494.0	444.2	539.3	775.0	616.4	181.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478419
 CATALOG NUMBER: IFLD-L-SA7E-722-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4	4328.4
2.5°	4396.4	4360.1	4355.6	4296.6	4314.8	4264.9	4269.4	4260.4	4264.9	4255.9	4233.2
5°	4373.7	4346.5	4269.4	4319.3	4274.0	4337.4	4387.3	4369.2	4382.8	4378.2	4382.8
7.5°	4405.4	4369.2	4360.1	4332.9	4373.7	4400.9	4441.7	4555.0	4545.9	4559.5	4586.7
10°	4500.6	4459.8	4432.6	4473.4	4450.7	4536.9	4582.2	4641.1	4745.3	4749.9	4695.5
12.5°	4686.4	4659.2	4604.8	4613.9	4691.0	4718.1	4745.3	4781.6	4849.6	4836.0	4885.8
15°	4899.4	4840.5	4808.8	4799.7	4817.9	4849.6	4845.1	4881.3	4917.6	4949.3	4935.7
17.5°	5053.5	4976.5	4985.6	5030.9	5026.3	5017.3	4958.4	4940.2	4958.4	4976.5	4967.4
20°	5212.2	5221.2	5153.3	5112.5	5094.3	5003.7	4958.4	4904.0	4849.6	4876.8	4917.6
22.5°	5411.6	5370.8	5271.1	5148.7	5058.1	5003.7	4863.2	4768.0	4768.0	4795.2	4781.6
25°	5638.2	5552.1	5379.9	5157.8	5044.5	4813.3	4713.6	4700.0	4663.8	4704.6	4722.7
27.5°	5815.0	5737.9	5502.2	5126.1	4813.3	4627.5	4568.6	4550.5	4609.4	4613.9	4686.4
30°	5887.5	5864.8	5520.4	5044.5	4577.6	4278.5	4242.3	4323.8	4387.3	4482.5	4487.0
32.5°	5982.7	5991.7	5547.6	4854.1	4269.4	3970.3	3915.9	4015.6	4196.9	4274.0	4332.9
35°	6141.3	6186.6	5524.9	4618.4	3943.1	3657.6	3648.5	3675.7	3852.5	3988.4	4065.5
37.5°	6417.8	6408.7	5520.4	4337.4	3684.8	3385.6	3313.1	3322.2	3440.0	3553.3	3539.7
40°	6789.4	6753.2	5506.8	3970.3	3349.4	3154.5	3032.1	2986.8	2977.7	2946.0	2955.1
42.5°	7297.0	7224.5	5502.2	3598.7	3045.7	2837.2	2751.1	2633.3	2547.2	2384.0	2393.1
45°	8004.1	7877.2	5384.4	3249.7	2746.6	2574.4	2442.9	2356.8	2171.0	1967.0	1967.0
47.5°	9096.4	8683.9	5388.9	2864.4	2456.5	2316.0	2225.4	2075.8	1876.4	1713.2	1695.1
50°	10705.3	9762.6	5234.8	2560.8	2220.8	2125.7	2030.5	1858.3	1667.9	1554.6	1568.2
52.5°	12781.1	11371.6	5230.3	2288.8	2035.0	1967.0	1862.8	1708.7	1568.2	1495.7	1468.5
55°	15255.8	13501.8	5393.5	2066.7	1844.7	1808.4	1763.1	1636.2	1500.2	1436.7	1432.2
57.5°	17789.4	15582.1	5656.3	1908.1	1681.5	1708.7	1677.0	1577.2	1468.5	1396.0	1386.9
60°	20041.9	17231.9	5126.1	1717.8	1536.5	1595.4	1640.7	1554.6	1495.7	1491.1	1459.4
62.5°	21741.5	17938.9	3897.8	1572.7	1459.4	1568.2	1690.6	1744.9	1717.8	1754.0	1758.5
65°	22362.5	17512.9	2683.1	1495.7	1400.5	1631.6	1903.6	1885.4	1726.8	1658.8	1695.1
67.5°	21492.3	15786.1	1989.7	1405.0	1359.7	1763.1	2025.9	1799.3	1559.1	1550.1	1522.9
70°	18482.8	13379.4	1622.6	1309.8	1291.7	1690.6	1971.6	1667.9	1468.5	1409.6	1382.4
72°	14725.5	10419.8	1423.1	1241.9	1182.9	1509.3	1844.7	1563.7	1391.4	1318.9	1287.2
72.5°	13442.9	9658.4	1396.0	1210.1	1160.3	1468.5	1781.2	1531.9	1373.3	1309.8	1260.0
75°	7374.1	4944.8	1228.3	1110.4	979.0	1269.1	1649.8	1436.7	1296.2	1205.6	1196.5
77.5°	2742.1	1917.2	1060.6	983.5	847.5	1096.8	1500.2	1364.2	1178.4	1065.1	1042.4
80°	1051.5	1010.7	865.7	829.4	711.6	960.9	1382.4	1223.7	1001.6	888.3	852.1
82.5°	639.1	589.2	657.2	648.1	543.9	874.7	1300.8	1146.7	888.3	720.6	698.0
85°	349.0	349.0	457.8	439.6	380.7	698.0	983.5	761.4	562.0	462.3	471.4
87.5°	154.1	181.3	244.7	231.1	208.5	394.3	480.4	403.4	281.0	190.4	204.0
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)