

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: P476742

Luminaire Tested: **IFLD-L-SA7E-827-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476742
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

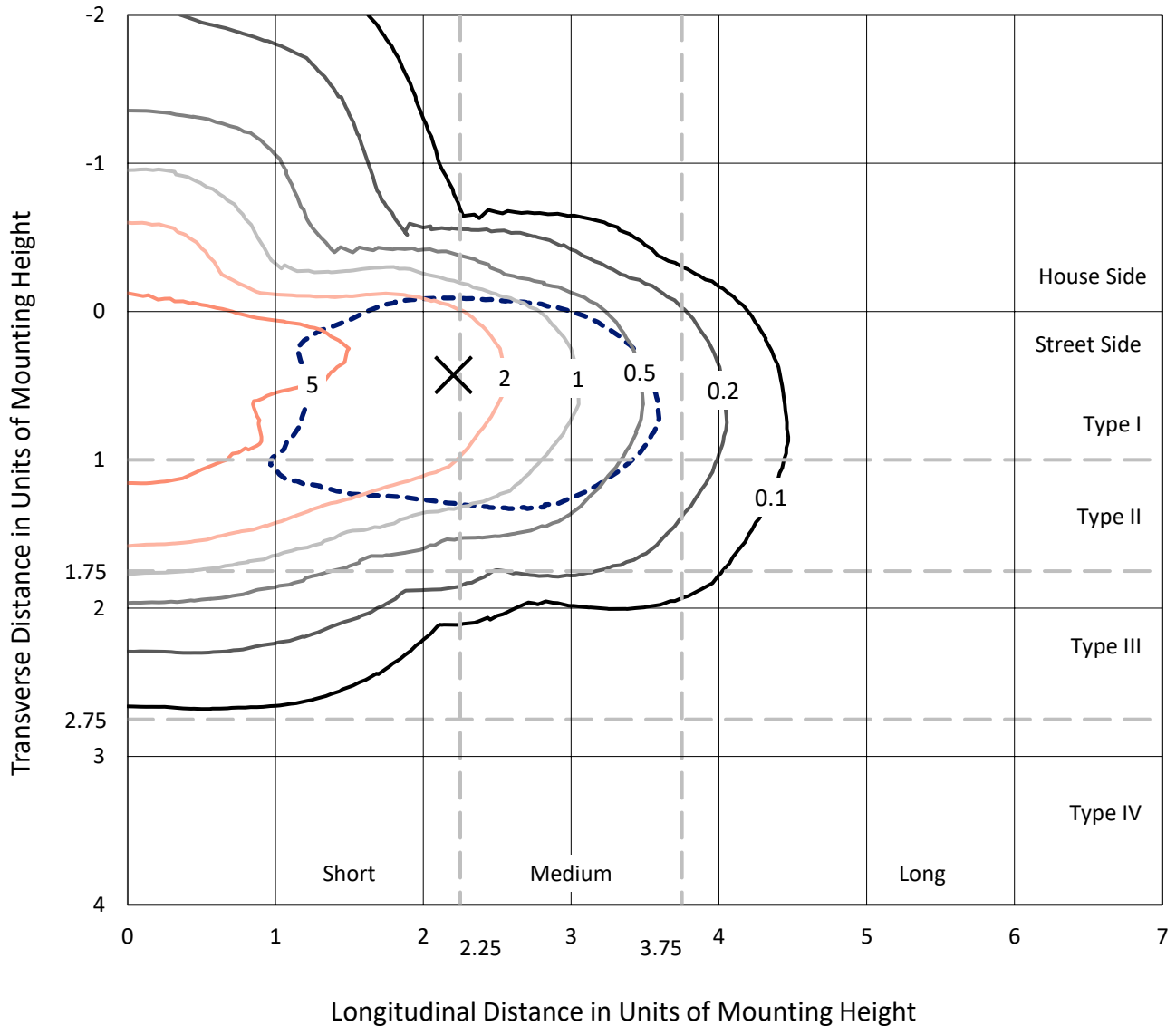
Lumens per Lamp: N/A
Luminaire Lumens: 41447.4 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

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

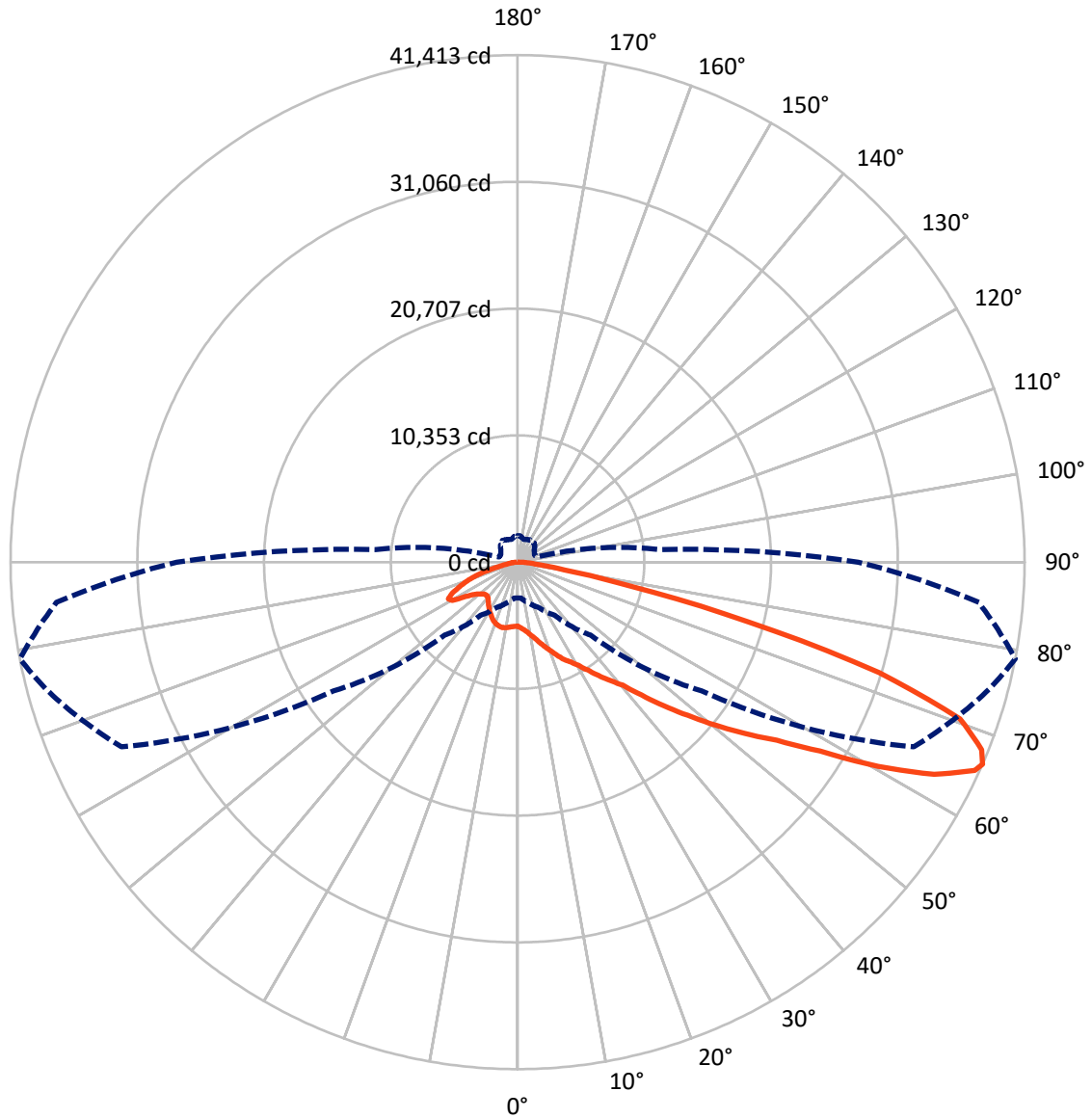
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8369.7	0.0	8369.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	33077.7	0.0	33077.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	41447.4	0.0	41447.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.6	1.2
10°-20°	1589.1	3.8
20°-30°	2727.8	6.6
30°-40°	4213.9	10.2
40°-50°	6749.6	16.3
50°-60°	10077.6	24.3
60°-70°	10354.8	25.0
70°-80°	4590.1	11.1
80°-90°	629.8	1.5
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°	41447.4	100.0
0°-180°	41447.4	100.0

Coefficient of Utilization



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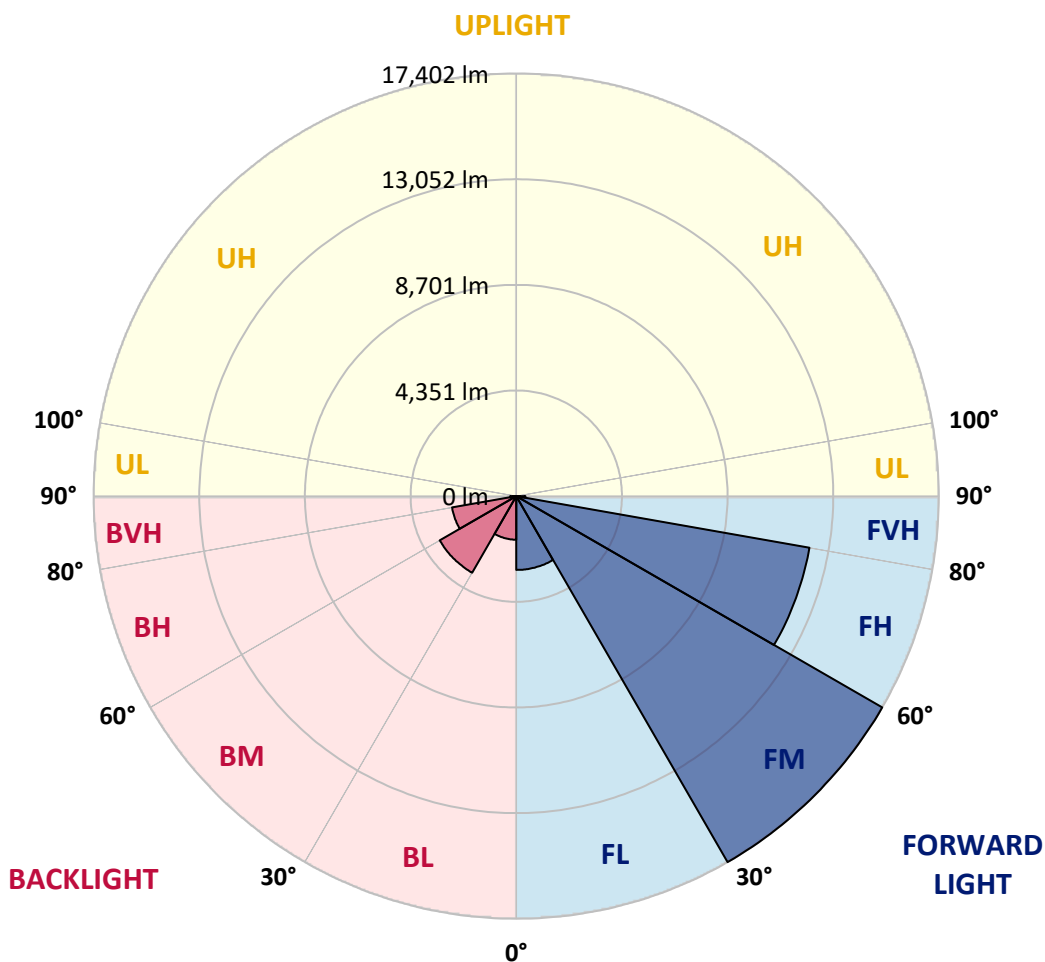
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3038.4	7.3			
FM (30°-60°)	17402.4	42.0			
FH (60°-80°)	12259.2	29.6			G5
FVH (80°-90°)	377.7	0.9			G3/500
BL (0°-30°)	1793.2	4.3	B3/2500		
BM (30°-60°)	3638.8	8.8	B3/5000		
BH (60°-80°)	2685.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	252.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7
2.5°	5566.5	5571.0	5571.0	5552.8	5557.3	5571.0	5520.9	5411.5	5411.5	5393.2	5361.3
5°	5908.4	5885.6	5853.7	5858.2	5840.0	5840.0	5785.3	5680.4	5589.2	5552.8	5457.0
7.5°	5954.0	5976.8	5972.2	6026.9	6054.3	6054.3	6081.6	5995.0	5858.2	5771.6	5675.9
10°	6045.1	5985.9	5981.3	6109.0	6150.0	6245.7	6355.2	6309.6	6195.6	6072.5	5944.8
12.5°	6099.9	6136.3	6136.3	6200.1	6295.9	6437.2	6628.7	6715.3	6537.5	6409.9	6213.8
15°	6181.9	6131.8	6277.6	6332.4	6514.7	6615.0	6888.5	7111.9	6993.4	6838.4	6528.4
17.5°	6218.4	6186.5	6268.5	6368.8	6678.8	6829.3	7162.1	7472.1	7371.8	7271.5	6952.4
20°	6405.3	6400.7	6437.2	6519.3	6742.7	7039.0	7453.9	7882.4	7918.9	7736.5	7303.4
22.5°	6861.2	6801.9	6801.9	6770.0	6865.8	7171.2	7731.9	8324.6	8488.7	8274.5	7700.0
25°	7280.6	7362.7	7312.5	7166.6	7130.2	7289.7	7932.5	8794.2	9013.0	8812.4	8238.0
27.5°	7818.6	7845.9	7932.5	7736.5	7485.8	7535.9	8151.4	9058.6	9509.9	9241.0	8543.4
30°	8593.6	8543.4	8525.2	8306.4	7978.1	7909.7	8402.1	9446.1	10161.9	9783.5	8903.6
32.5°	9117.9	9241.0	9236.4	8935.5	8538.9	8388.4	8712.1	9810.8	10859.4	10508.3	9569.2
35°	10157.3	10284.9	10184.7	9742.4	9277.4	8976.5	9158.9	10284.9	11657.2	11383.7	10134.5
37.5°	11483.9	11784.8	11570.6	10754.5	10098.0	9769.8	9778.9	10800.1	12473.2	12249.8	10740.8
40°	12400.3	12806.0	12509.7	11743.8	11046.3	10736.3	10613.2	11411.0	13448.8	13211.8	11689.1
42.5°	13535.5	13872.8	13717.8	12961.0	12145.0	11880.6	11634.4	12432.2	14939.6	14830.2	12906.3
45°	14775.5	14935.1	14884.9	14406.2	13499.0	13407.8	12865.3	13777.1	16694.8	16740.4	14429.0
47.5°	15928.9	16015.5	16111.3	15764.8	15199.5	15277.0	14283.1	15217.7	18399.8	18700.7	16124.9
50°	16225.2	16521.6	16745.0	16977.5	17100.6	17624.8	15846.8	16986.6	20360.2	20943.7	18012.3
52.5°	15924.3	15901.6	16580.8	17310.3	18541.2	19639.9	17975.9	19184.0	22092.6	23246.0	19740.2
55°	14556.7	14511.1	15605.2	16571.7	18974.3	20761.4	21016.7	22110.8	24185.1	25685.0	22078.9
57.5°	12163.2	11880.6	13075.0	14661.5	18035.1	20884.5	24071.2	26455.5	27403.7	29113.3	25648.5
60°	8174.2	8055.6	9199.9	11091.9	14643.3	19138.4	25899.3	31894.3	31939.9	33863.7	31187.6
62.5°	5033.1	5055.9	5789.8	7207.7	10253.0	15172.1	25110.6	36238.9	36248.1	38176.5	35746.6
65°	3291.5	3305.2	3897.9	4682.0	6405.3	10289.5	20765.9	36580.9	39243.3	41034.9	37834.6
66°	2931.4	2936.0	3446.6	4084.8	5306.6	8420.3	18340.6	35691.9	39918.0	41413.3	37807.2
67.5°	2470.9	2530.2	2940.5	3432.9	4139.5	6049.7	14552.1	33120.6	39571.5	40884.5	36950.1
70°	1933.0	1964.9	2288.6	2790.1	3104.6	3501.3	8648.3	26998.0	36220.7	38349.7	33831.8
72.5°	1550.0	1577.4	1823.6	2265.8	2521.1	2306.8	4709.4	19589.7	28611.9	30882.2	26610.5
75°	1308.4	1313.0	1431.5	1782.5	2074.3	1732.4	2507.4	12573.5	18358.8	19416.5	16302.7
77.5°	1057.7	1075.9	1158.0	1358.6	1668.6	1363.1	1495.3	7043.5	9218.2	9295.7	7535.9
80°	861.6	870.8	920.9	989.3	1271.9	1007.5	1012.1	3437.4	3952.6	3861.4	3063.6
82.5°	679.3	688.4	747.7	734.0	934.6	720.3	629.1	1654.9	1819.0	1782.5	1408.7
85°	383.0	383.0	588.1	588.1	592.7	455.9	383.0	779.6	961.9	898.1	661.0
87.5°	123.1	127.7	177.8	186.9	296.3	205.2	186.9	291.8	455.9	401.2	237.1
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°	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7
2.5°	5343.1	5270.1	5238.2	5133.4	5106.0	5037.6	5005.7	4964.7	4951.0	4891.7	4946.4
5°	5384.1	5361.3	5233.7	5101.4	5001.1	4955.6	4887.2	4796.0	4786.9	4704.8	4695.7
7.5°	5557.3	5479.8	5256.4	5115.1	4914.5	4800.6	4650.1	4604.5	4545.3	4517.9	4577.2
10°	5826.3	5630.3	5297.5	4941.9	4695.7	4558.9	4449.5	4417.6	4422.2	4403.9	4376.6
12.5°	6017.8	5830.9	5229.1	4796.0	4476.9	4344.7	4335.5	4367.5	4417.6	4394.8	4426.7
15°	6291.3	5940.3	5178.9	4554.4	4299.1	4262.6	4258.0	4353.8	4349.2	4349.2	4344.7
17.5°	6546.6	6049.7	4996.6	4344.7	4112.2	4139.5	4171.4	4166.9	4212.5	4230.7	4262.6
20°	6870.3	6177.4	4741.3	4135.0	3970.8	3961.7	3957.2	3961.7	4007.3	4034.7	4011.9
22.5°	7153.0	6204.7	4527.0	3934.4	3802.1	3765.7	3706.4	3765.7	3742.9	3752.0	3779.4
25°	7399.1	6209.3	4221.6	3783.9	3633.5	3551.4	3505.8	3501.3	3460.2	3455.7	3455.7
27.5°	7604.3	6054.3	3952.6	3574.2	3432.9	3355.4	3350.8	3300.7	3195.8	3127.4	3136.5
30°	7763.9	5935.7	3765.7	3391.8	3255.1	3241.4	3200.4	3086.4	2949.6	2863.0	2863.0
32.5°	8046.5	5698.7	3510.4	3204.9	3136.5	3118.3	3022.6	2922.3	2794.6	2712.6	2698.9
35°	8256.2	5479.8	3341.7	3045.4	3013.5	2977.0	2894.9	2785.5	2749.0	2730.8	2744.5
37.5°	8493.3	5233.7	3136.5	2908.6	2940.5	2872.1	2776.4	2726.2	2853.9	2822.0	2835.7
40°	8871.7	5060.4	2936.0	2826.5	2858.4	2780.9	2657.9	2639.6	2799.2	2685.2	2657.9
42.5°	9564.6	5055.9	2812.9	2703.4	2726.2	2667.0	2557.6	2548.4	2612.3	2475.5	2434.5
45°	10426.3	5215.4	2721.7	2612.3	2594.0	2584.9	2548.4	2507.4	2452.7	2274.9	2229.3
47.5°	11456.6	5475.3	2703.4	2475.5	2498.3	2575.8	2530.2	2425.4	2284.0	2170.1	2147.3
50°	12705.7	6013.2	2657.9	2375.2	2416.2	2539.3	2502.9	2357.0	2229.3	2156.4	2142.7
52.5°	14087.1	6692.5	2598.6	2220.2	2311.4	2507.4	2525.6	2388.9	2202.0	2138.1	2129.0
55°	15714.6	7695.5	2530.2	2051.5	2188.3	2475.5	2525.6	2297.7	2165.5	2165.5	2156.4
57.5°	18928.7	9500.8	2388.9	1896.5	2078.9	2416.2	2452.7	2302.3	2170.1	2170.1	2151.8
60°	23642.6	12318.2	2119.9	1778.0	1974.0	2334.2	2398.0	2233.9	2119.9	2147.3	2142.7
62.5°	27330.8	13175.3	1892.0	1664.0	1869.2	2183.7	2325.1	2160.9	2060.6	2160.9	2170.1
65°	28119.5	12309.1	1659.5	1540.9	1723.3	2037.8	2220.2	2056.1	1974.0	2170.1	2179.2
66°	27836.8	11634.4	1577.4	1504.4	1659.5	1964.9	2156.4	2019.6	1928.4	2160.9	2165.5
67.5°	26578.6	10622.3	1486.2	1426.9	1572.8	1860.0	2083.4	1969.5	1855.5	2133.6	2092.5
70°	23843.2	9008.4	1331.2	1290.2	1449.7	1686.8	1914.8	1841.8	1741.5	1964.9	1892.0
72.5°	18363.4	7198.6	1167.1	1171.6	1308.4	1509.0	1746.1	1695.9	1609.3	1723.3	1677.7
75°	11183.1	4600.0	1016.6	1025.8	1139.7	1340.3	1586.5	1550.0	1445.2	1509.0	1486.2
77.5°	4955.6	2279.5	857.1	875.3	966.5	1180.8	1381.4	1322.1	1212.7	1226.4	1217.2
80°	1923.9	1080.5	697.5	720.3	779.6	943.7	1144.3	1089.6	993.8	975.6	966.5
82.5°	925.5	601.8	538.0	547.1	569.9	752.2	984.7	916.3	788.7	706.6	706.6
85°	465.0	373.8	378.4	346.5	378.4	510.6	665.6	556.2	460.5	410.3	419.4
87.5°	186.9	186.9	186.9	159.6	168.7	241.6	310.0	209.7	191.5	114.0	114.0
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)