

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: P478055

Luminaire Tested: **IFLD-S-SA6B-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478055
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

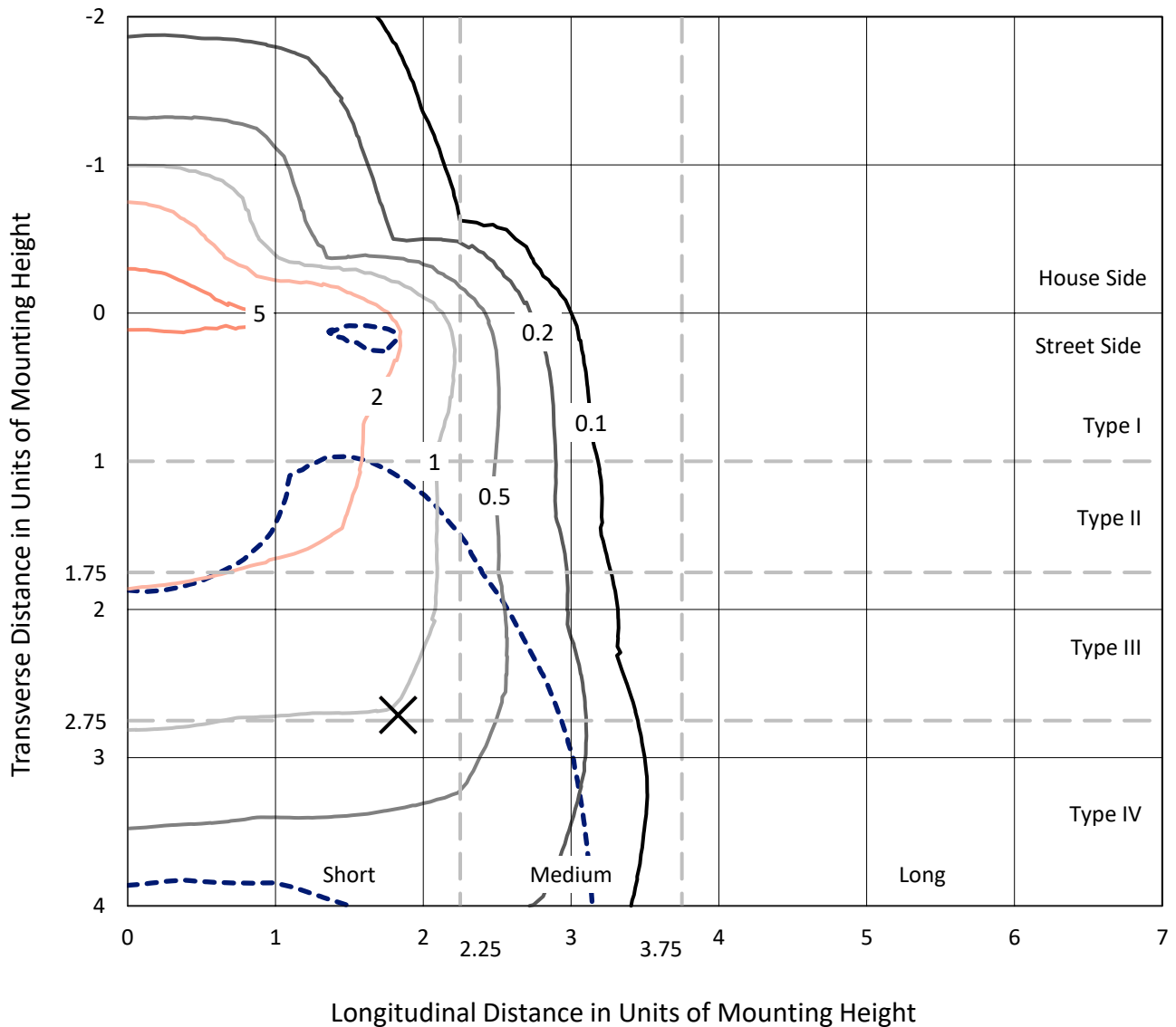
Lumens per Lamp: N/A
Luminaire Lumens: 28599.1 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

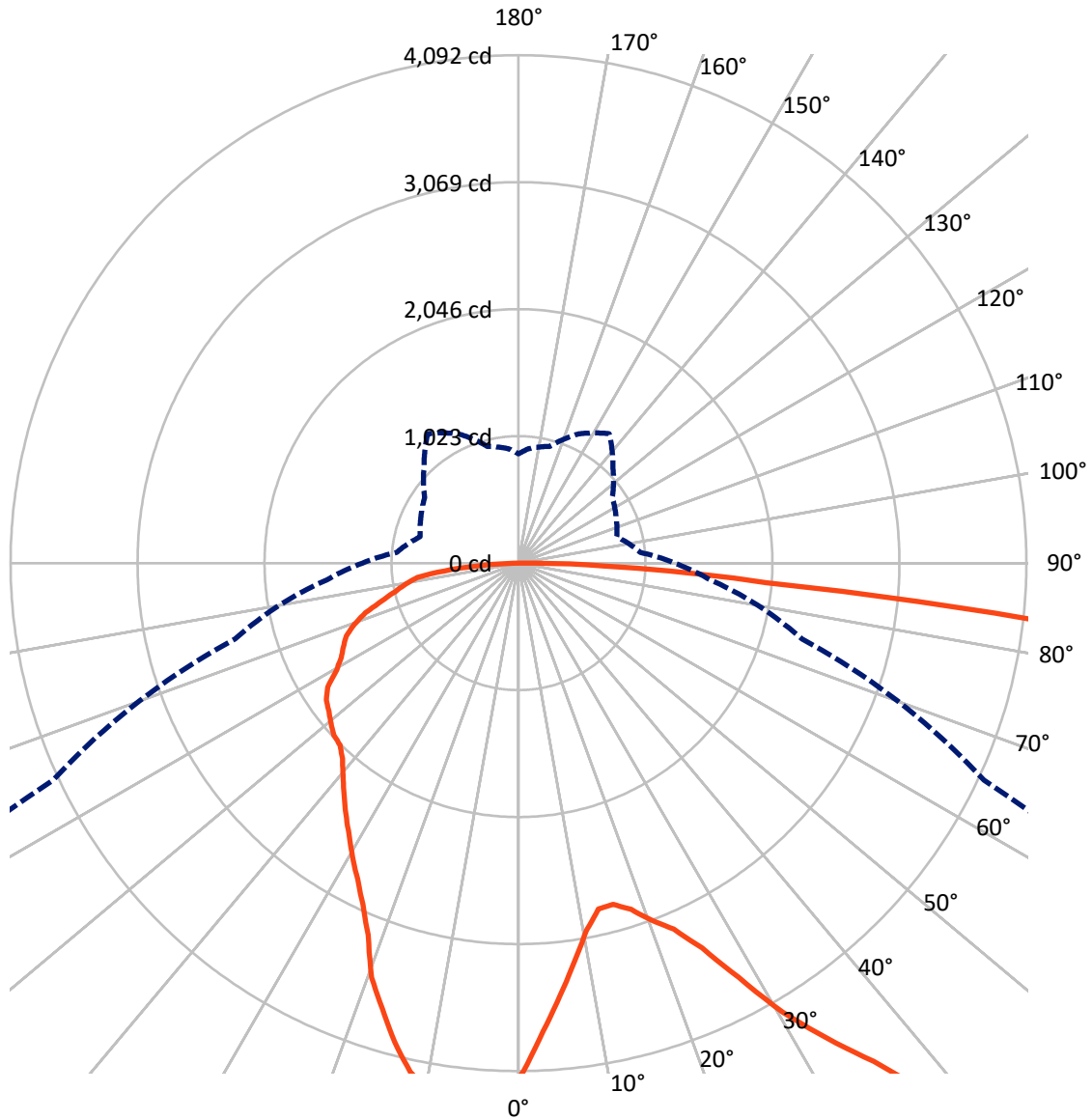
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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CATALOG NUMBER: IFLD-S-SA6B-727-U-T4FT

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	6177.8	0.0	6177.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22421.3	0.0	22421.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	28599.1	0.0	28599.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	1.3
10°-20°	1059.0	3.7
20°-30°	1743.0	6.1
30°-40°	2606.7	9.1
40°-50°	3864.3	13.5
50°-60°	5568.9	19.5
60°-70°	7106.7	24.8
70°-80°	5530.2	19.3
80°-90°	741.9	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°	28599.1	100.0
0°-180°	28599.1	100.0

Coefficient of Utilization



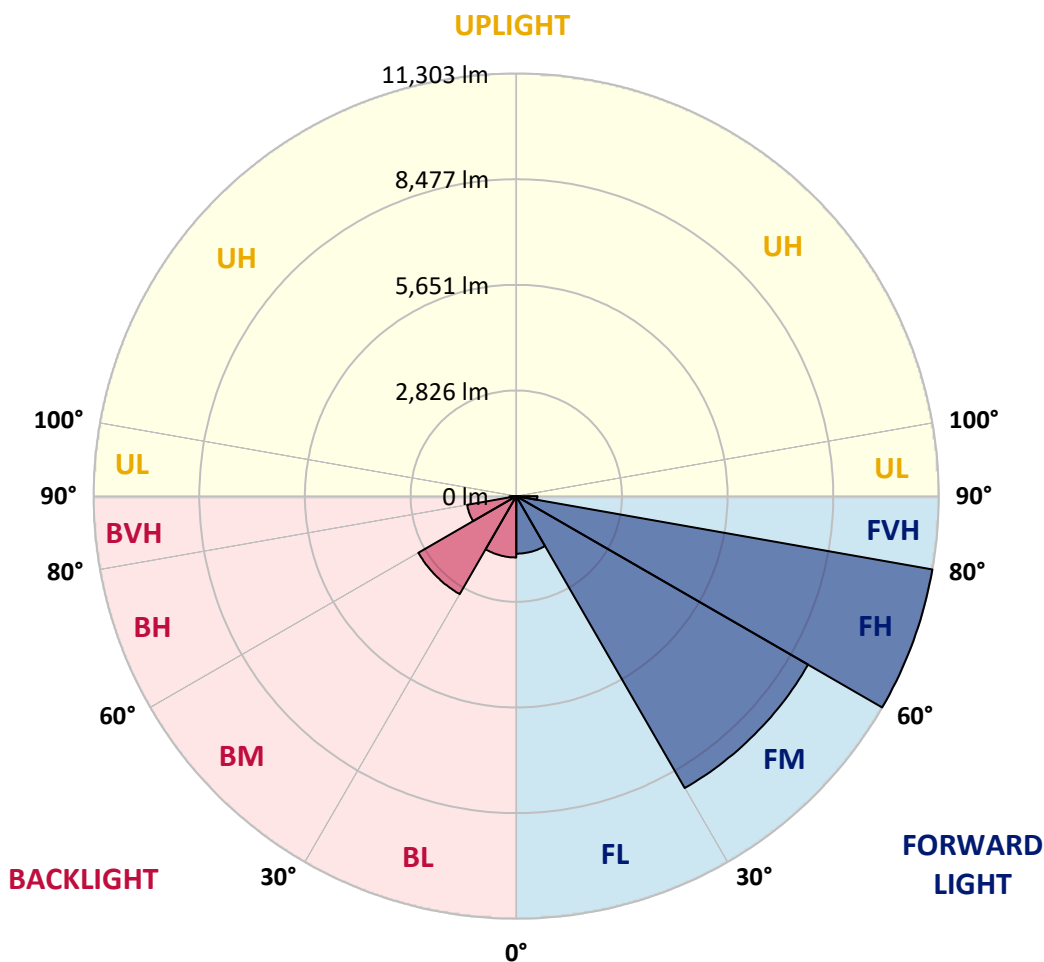
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1539.1	5.4			
FM (30°-60°)	9014.6	31.5			
FH (60°-80°)	11302.9	39.5			G4/12000
FVH (80°-90°)	564.7	2.0			G4/750
BL (0°-30°)	1641.4	5.7	B3/2500		
BM (30°-60°)	3025.3	10.6	B3/5000		
BH (60°-80°)	1333.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	177.2	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-G4

Type IV Short





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CATALOG NUMBER: IFLD-S-SA6B-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1
2.5°	3673.8	3685.9	3725.2	3734.3	3776.6	3752.4	3803.8	3894.5	3945.9	4021.5	4112.2
5°	3383.5	3332.1	3356.3	3450.0	3498.4	3510.5	3564.9	3719.1	3815.9	3927.8	4097.1
7.5°	3041.8	3032.8	3081.1	3141.6	3238.4	3247.4	3368.4	3504.5	3704.0	3952.0	4151.5
10°	2809.0	2848.3	2875.5	2939.0	3005.6	3005.6	3159.8	3395.6	3622.4	3861.3	4163.6
12.5°	2796.9	2772.7	2778.8	2812.0	2860.4	2920.9	3066.0	3277.7	3564.9	3843.1	4215.0
15°	2836.2	2845.3	2790.9	2833.2	2851.3	2872.5	3032.8	3271.6	3528.7	3906.6	4302.7
17.5°	3044.9	2993.5	2908.8	2869.5	2933.0	2933.0	3041.8	3229.3	3534.7	3939.9	4429.7
20°	3208.1	3208.1	3069.1	3026.7	3072.1	3063.0	3138.6	3277.7	3564.9	4006.4	4571.8
22.5°	3483.3	3522.6	3292.8	3205.1	3202.1	3226.3	3292.8	3410.7	3649.6	4100.1	4707.9
25°	3879.4	3888.5	3622.4	3531.7	3434.9	3474.2	3486.3	3604.2	3725.2	4209.0	4862.1
27.5°	4320.9	4314.8	4069.9	3843.1	3779.6	3788.7	3722.2	3800.8	3837.1	4242.2	5082.8
30°	4810.7	4756.3	4571.8	4251.3	4199.9	4142.5	3997.3	3994.3	4069.9	4429.7	5388.2
32.5°	5131.2	5061.7	4934.7	4704.9	4562.8	4568.8	4339.0	4336.0	4269.5	4635.3	5654.3
35°	5445.7	5339.8	5306.6	5070.7	4928.6	4943.7	4759.3	4735.1	4614.2	4946.8	6092.7
37.5°	5823.6	5729.9	5781.3	5602.9	5427.5	5355.0	5270.3	5240.1	5082.8	5385.2	6691.4
40°	6240.9	6210.7	6177.4	6089.7	5983.9	5989.9	5899.2	5869.0	5636.2	5914.3	7265.9
42.5°	6803.3	6688.4	6516.1	6573.5	6627.9	6685.4	6655.2	6576.5	6334.6	6452.6	7907.0
45°	7326.4	7175.2	6857.7	6875.9	7099.6	7145.0	7510.9	7501.8	7015.0	7135.9	8635.7
47.5°	7680.2	7610.6	7420.1	7399.0	7719.5	7716.5	8375.6	8375.6	7731.6	7816.3	9418.8
50°	8206.3	8024.9	7943.2	8049.1	8212.4	8324.2	9258.6	9316.0	8436.1	8526.8	10443.8
52.5°	8823.1	8596.4	8390.8	8662.9	8953.2	9025.7	10132.4	10108.2	8977.4	9352.3	11644.3
55°	9334.1	9219.2	9077.1	9234.4	9709.1	9799.8	11009.3	10785.5	9518.6	10035.6	12221.8
57.5°	9929.8	9999.4	10029.6	9990.3	10555.7	10697.8	12010.1	11369.1	9984.2	10495.2	12560.4
60°	10827.9	10870.2	10909.5	11003.2	11601.9	11801.5	12802.3	12100.8	10277.5	10761.3	12587.6
62.5°	12194.6	12031.3	12119.0	12442.5	12923.3	13150.1	13969.5	12614.9	10501.3	10921.6	11698.7
65°	13757.8	13537.1	13446.4	13863.6	15109.4	14928.0	15426.9	12998.9	10177.8	10322.9	9920.7
67.5°	15342.2	15366.4	15133.6	15971.2	17498.1	17498.1	16781.5	13183.3	9300.9	8366.6	6957.5
70°	16600.1	16675.7	16802.7	18426.4	20845.4	21211.2	18459.7	12427.4	7513.9	5569.6	3803.8
72.5°	16581.9	16355.2	17005.3	19995.7	23887.2	23581.8	18810.4	9827.0	4689.8	2727.4	1744.7
73°	16210.0	16019.5	16730.1	19980.6	24011.2	23723.9	18553.4	9059.0	4136.4	2364.5	1551.2
75°	13237.7	12893.0	14102.5	18096.8	22215.1	22435.8	15762.5	5908.3	2267.8	1457.4	1091.6
77.5°	6035.3	6186.5	7761.8	12140.1	17120.2	17380.2	10362.2	2555.0	1242.7	1022.0	804.3
80°	1938.2	2034.9	3020.7	6035.3	10731.1	11199.8	4789.5	1161.1	885.9	783.1	601.7
82.5°	740.8	737.8	1266.9	2509.7	5085.9	5385.2	1750.7	707.5	659.2	577.5	426.3
85°	260.0	272.1	477.7	991.8	2001.7	2095.4	607.8	393.1	456.6	387.0	244.9
87.5°	90.7	93.7	169.3	359.8	689.4	728.7	169.3	157.2	226.8	223.8	124.0
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°	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1	4100.1
2.5°	4142.5	4169.7	4178.7	4287.6	4287.6	4287.6	4329.9	4329.9	4317.8	4287.6	4360.2
5°	4160.6	4209.0	4302.7	4396.5	4420.6	4441.8	4499.3	4450.9	4469.0	4438.8	4466.0
7.5°	4212.0	4278.5	4453.9	4511.4	4472.0	4517.4	4456.9	4423.7	4390.4	4402.5	4360.2
10°	4299.7	4384.4	4466.0	4571.8	4496.2	4450.9	4326.9	4296.7	4190.8	4154.6	4187.8
12.5°	4408.5	4511.4	4650.4	4611.1	4466.0	4336.0	4202.9	4075.9	4012.4	3921.7	3945.9
15°	4517.4	4635.3	4656.5	4590.0	4408.5	4245.3	4003.4	3825.0	3761.5	3679.8	3722.2
17.5°	4635.3	4747.2	4710.9	4538.6	4293.6	4045.7	3770.5	3595.2	3462.1	3410.7	3410.7
20°	4810.7	4865.1	4807.7	4453.9	4154.6	3828.0	3561.9	3362.3	3229.3	3208.1	3174.9
22.5°	4946.8	5034.5	4777.4	4329.9	3952.0	3543.8	3238.4	3162.8	3123.5	3090.2	3047.9
25°	5122.1	5119.1	4723.0	4215.0	3604.2	3205.1	3020.7	3014.6	2996.5	2984.4	3041.8
27.5°	5288.4	5218.9	4659.5	3930.8	3244.4	2948.1	2848.3	2914.8	2942.1	2923.9	2948.1
30°	5551.5	5436.6	4568.8	3628.4	2926.9	2688.1	2706.2	2796.9	2842.3	2869.5	2833.2
32.5°	5829.7	5654.3	4381.3	3314.0	2645.7	2524.8	2567.1	2660.9	2715.3	2745.5	2778.8
35°	6231.8	5823.6	4190.8	2902.7	2443.1	2425.0	2449.2	2500.6	2579.2	2600.4	2609.4
37.5°	6727.7	6080.7	3933.8	2573.2	2285.9	2307.1	2331.3	2349.4	2352.4	2391.7	2376.6
40°	7223.6	6298.4	3558.9	2258.7	2122.6	2237.5	2225.4	2192.2	2165.0	2128.7	2119.6
42.5°	7659.0	6488.9	3141.6	1992.6	1977.5	2165.0	2125.7	2041.0	1977.5	1950.3	1904.9
45°	8148.9	6758.0	2721.3	1826.3	1865.6	2077.3	2065.2	1935.2	1853.5	1756.8	1744.7
47.5°	8783.8	7039.2	2319.2	1654.0	1759.8	2044.0	2050.1	1883.8	1765.8	1635.8	1617.7
50°	9597.2	7444.3	2013.8	1581.4	1696.3	1995.6	2004.7	1814.2	1660.0	1527.0	1514.9
52.5°	10377.3	7858.6	1759.8	1469.5	1654.0	1938.2	1959.4	1750.7	1572.3	1406.0	1415.1
55°	10770.4	7707.4	1542.1	1387.9	1557.2	1844.5	1923.1	1705.4	1439.3	1324.4	1321.4
57.5°	10858.1	7335.5	1369.7	1303.2	1475.6	1744.7	1862.6	1569.3	1378.8	1282.0	1270.0
60°	10570.8	6685.4	1233.7	1212.5	1372.8	1641.9	1723.5	1496.7	1318.3	1239.7	1221.6
62.5°	9863.3	6011.1	1139.9	1170.2	1285.1	1530.0	1635.8	1445.3	1260.9	1206.5	1167.1
65°	8088.4	4943.7	1064.3	1088.5	1194.4	1421.1	1581.4	1387.9	1209.5	1158.1	1155.1
67.5°	5602.9	3407.7	1003.9	1049.2	1121.8	1342.5	1527.0	1324.4	1143.0	1124.8	1100.6
70°	2869.5	1817.2	925.3	961.5	1043.2	1242.7	1430.2	1257.9	1073.4	1070.4	1040.2
72.5°	1454.4	1064.3	834.5	889.0	946.4	1112.7	1309.3	1170.2	985.7	952.5	904.1
73°	1257.9	985.7	819.4	867.8	922.2	1076.4	1273.0	1149.0	973.6	925.3	879.9
75°	916.2	777.1	734.8	783.1	825.5	970.6	1152.0	1052.2	895.0	843.6	801.3
77.5°	686.4	598.7	610.8	665.2	701.5	837.6	1025.0	952.5	810.4	740.8	722.7
80°	505.0	456.6	505.0	556.4	583.6	737.8	934.3	825.5	683.4	604.7	589.6
82.5°	359.8	332.6	390.1	423.3	435.4	610.8	840.6	659.2	517.1	414.2	381.0
85°	205.6	202.6	263.1	260.0	269.1	356.8	553.3	438.4	332.6	254.0	247.9
87.5°	90.7	99.8	133.0	105.8	111.9	169.3	235.8	163.3	136.1	75.6	57.5
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)