

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: P476705

Luminaire Tested: **IFLD-L-SA8B-760-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476705
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-760-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

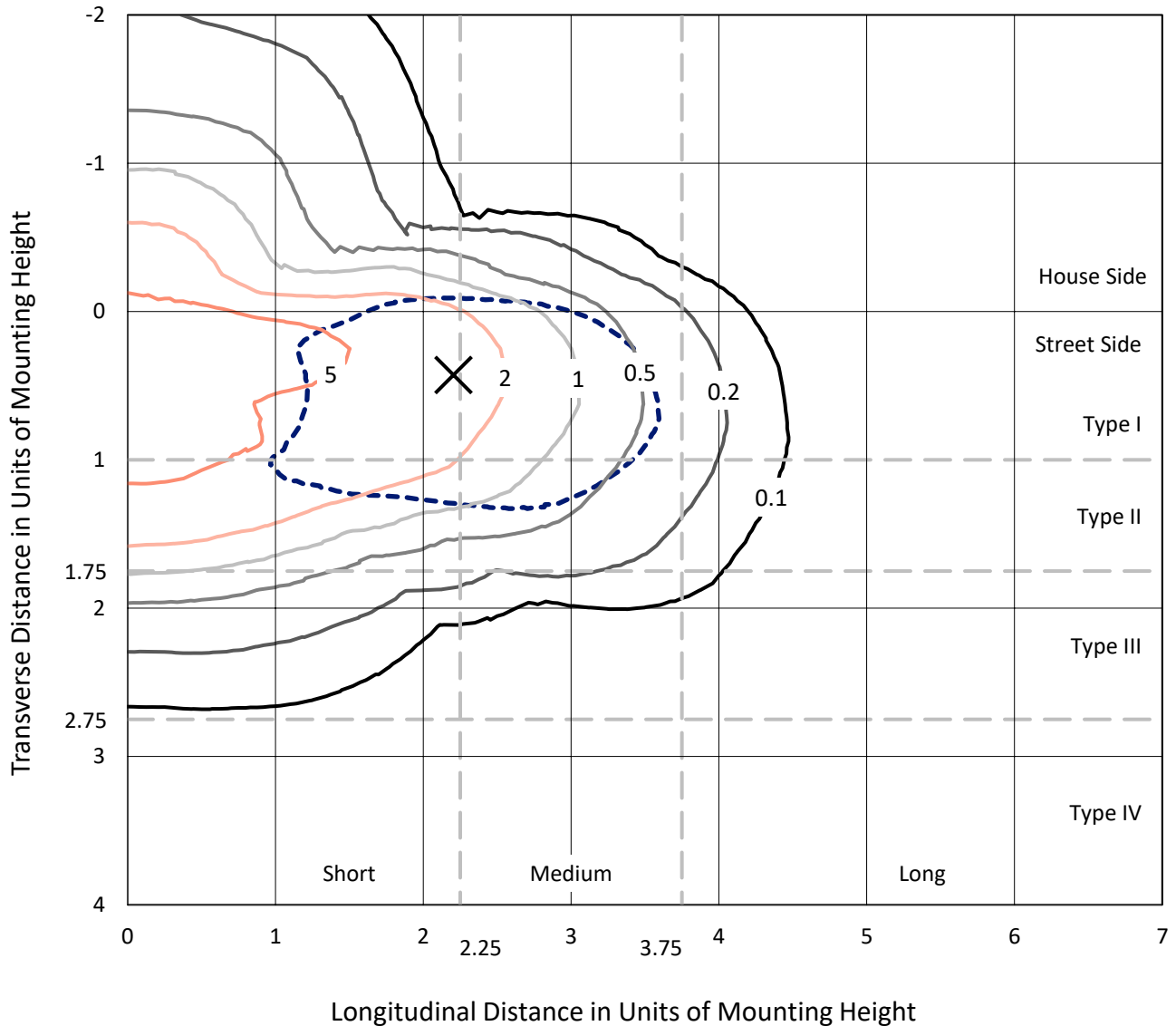
Lumens per Lamp: N/A
Luminaire Lumens: 41580.5 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 320
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

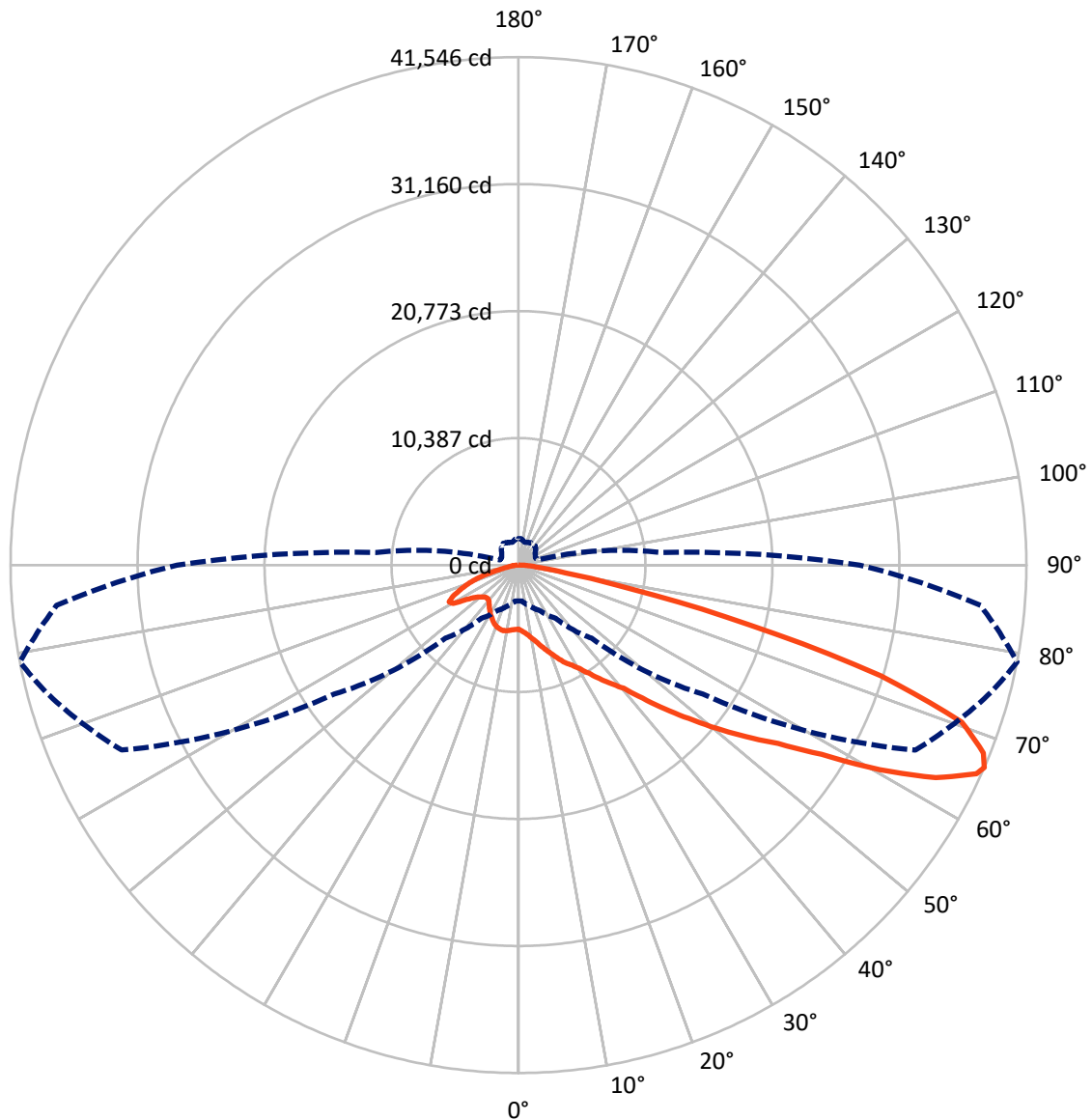
× Max cd
 - - - 1/2 Max cd



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	8396.6	0.0	8396.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	33183.9	0.0	33183.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	41580.5	0.0	41580.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.3	1.2
10°-20°	1594.2	3.8
20°-30°	2736.6	6.6
30°-40°	4227.4	10.2
40°-50°	6771.3	16.3
50°-60°	10110.0	24.3
60°-70°	10388.0	25.0
70°-80°	4604.9	11.1
80°-90°	631.8	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°	41580.5	100.0
0°-180°	41580.5	100.0

Coefficient of Utilization



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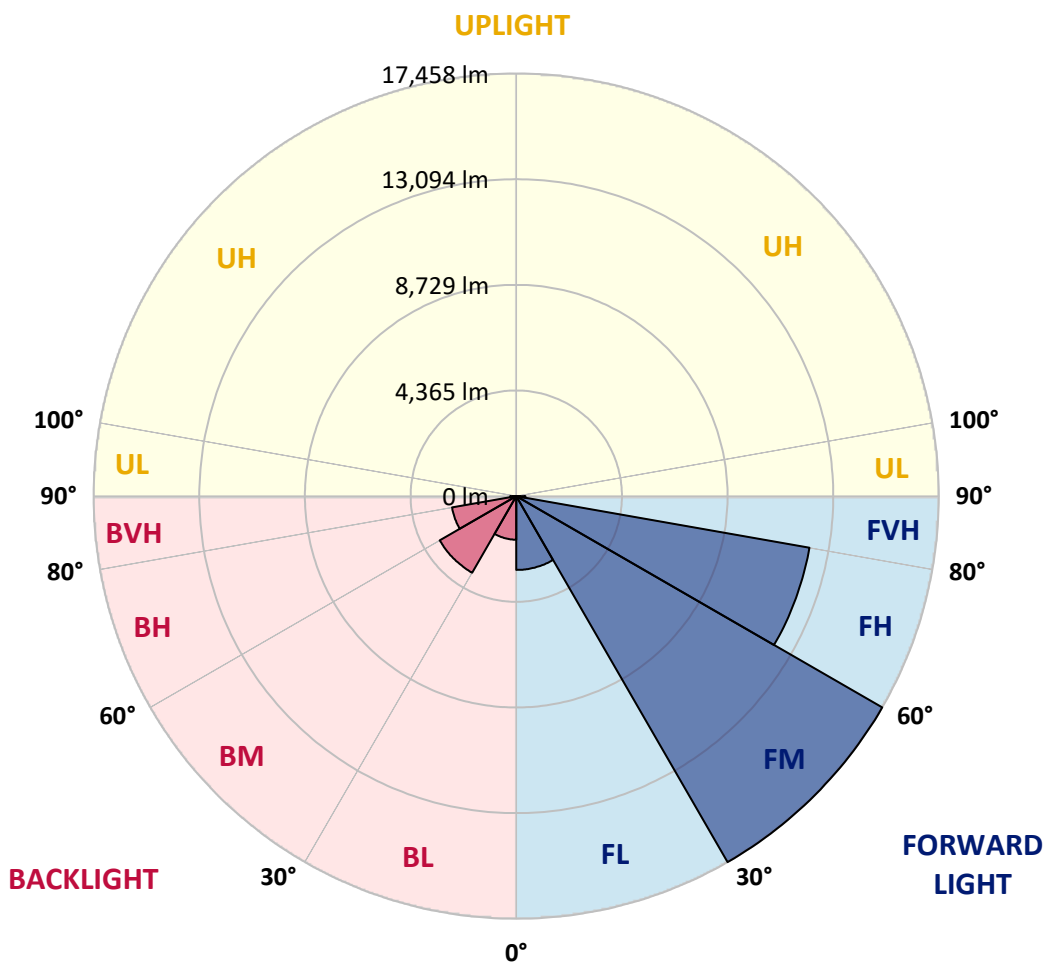
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3048.1	7.3			
FM (30°-60°)	17458.2	42.0			
FH (60°-80°)	12298.6	29.6			G5
FVH (80°-90°)	379.0	0.9			G3/500
BL (0°-30°)	1799.0	4.3	B3/2500		
BM (30°-60°)	3650.5	8.8	B3/5000		
BH (60°-80°)	2694.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	252.9	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°	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5
2.5°	5584.3	5588.9	5588.9	5570.6	5575.2	5588.9	5538.6	5428.8	5428.8	5410.5	5378.5
5°	5927.3	5904.5	5872.5	5877.0	5858.7	5858.7	5803.9	5698.7	5607.2	5570.6	5474.6
7.5°	5973.1	5995.9	5991.4	6046.3	6073.7	6073.7	6101.1	6014.2	5877.0	5790.1	5694.1
10°	6064.6	6005.1	6000.5	6128.6	6169.7	6265.8	6375.6	6329.8	6215.5	6092.0	5963.9
12.5°	6119.4	6156.0	6156.0	6220.1	6316.1	6457.9	6650.0	6736.9	6558.5	6430.4	6233.8
15°	6201.8	6151.4	6297.8	6352.7	6535.6	6636.2	6910.7	7134.8	7015.9	6860.4	6549.3
17.5°	6238.3	6206.3	6288.7	6389.3	6700.3	6851.2	7185.1	7496.1	7395.5	7294.8	6974.7
20°	6425.9	6421.3	6457.9	6540.2	6764.3	7061.6	7477.8	7907.7	7944.3	7761.3	7326.9
22.5°	6883.2	6823.8	6823.8	6791.7	6887.8	7194.2	7756.8	8351.3	8516.0	8301.0	7724.8
25°	7304.0	7386.3	7336.0	7189.6	7153.1	7313.1	7958.0	8822.4	9041.9	8840.7	8264.4
27.5°	7843.7	7871.1	7958.0	7761.3	7509.8	7560.1	8177.5	9087.7	9540.5	9270.6	8570.9
30°	8621.2	8570.9	8552.6	8333.0	8003.7	7935.1	8429.1	9476.4	10194.5	9814.9	8932.2
32.5°	9147.1	9270.6	9266.0	8964.2	8566.3	8415.4	8740.1	9842.3	10894.2	10542.1	9599.9
35°	10189.9	10318.0	10217.4	9773.7	9307.2	9005.4	9188.3	10318.0	11694.6	11420.2	10167.0
37.5°	11520.8	11822.7	11607.7	10789.0	10130.5	9801.2	9810.3	10834.8	12513.3	12289.2	10775.3
40°	12440.1	12847.2	12549.9	11781.5	11081.8	10770.8	10647.3	11447.6	13492.0	13254.2	11726.6
42.5°	13578.9	13917.4	13761.9	13002.7	12184.0	11918.7	11671.7	12472.1	14987.6	14877.8	12947.8
45°	14822.9	14983.0	14932.7	14452.5	13542.3	13450.9	12906.6	13821.3	16748.4	16794.1	14475.3
47.5°	15980.0	16066.9	16163.0	15815.4	15248.3	15326.0	14329.0	15266.6	18458.9	18760.8	16176.7
50°	16277.3	16574.6	16798.7	17032.0	17155.5	17681.4	15897.7	17041.1	20425.6	21011.0	18070.2
52.5°	15975.5	15952.6	16634.1	17365.8	18600.7	19702.9	18033.6	19245.6	22163.5	23320.6	19803.6
55°	14603.4	14557.7	15655.3	16624.9	19035.2	20828.0	21084.1	22181.8	24262.8	25767.5	22149.8
57.5°	12202.3	11918.7	13117.0	14708.6	18093.0	20951.5	24148.4	26540.4	27491.7	29206.8	25730.9
60°	8200.4	8081.5	9229.5	11127.5	14690.3	19199.8	25982.4	31996.7	32042.4	33972.5	31287.8
62.5°	5049.2	5072.1	5808.4	7230.8	10286.0	15220.8	25191.2	36355.3	36364.4	38299.1	35861.3
65°	3302.1	3315.8	3910.4	4697.1	6425.9	10322.5	20832.6	36698.3	39369.3	41166.7	37956.0
66°	2940.8	2945.4	3457.6	4097.9	5323.6	8447.4	18399.5	35806.5	40046.2	41546.3	37928.6
67.5°	2478.9	2538.3	2950.0	3443.9	4152.8	6069.1	14598.8	33227.0	39698.6	41015.8	37068.8
70°	1939.2	1971.2	2295.9	2799.0	3114.6	3512.5	8676.1	27084.7	36337.0	38472.9	33940.4
72.5°	1555.0	1582.5	1829.4	2273.1	2529.2	2314.2	4724.5	19652.6	28703.7	30981.4	26695.9
75°	1312.6	1317.2	1436.1	1788.3	2081.0	1738.0	2515.5	12613.9	18417.8	19478.8	16355.1
77.5°	1061.1	1079.4	1161.7	1362.9	1673.9	1367.5	1500.1	7066.2	9247.8	9325.5	7560.1
80°	864.4	873.6	923.9	992.5	1276.0	1010.8	1015.3	3448.5	3965.3	3873.8	3073.4
82.5°	681.5	690.6	750.1	736.3	937.6	722.6	631.2	1660.2	1824.9	1788.3	1413.2
85°	384.2	384.2	590.0	590.0	594.6	457.4	384.2	782.1	965.0	901.0	663.2
87.5°	123.5	128.1	178.4	187.5	297.3	205.8	187.5	292.7	457.4	402.5	237.8
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°	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5	5250.5
2.5°	5360.2	5287.0	5255.0	5149.8	5122.4	5053.8	5021.8	4980.6	4966.9	4907.4	4962.3
5°	5401.4	5378.5	5250.5	5117.8	5017.2	4971.5	4902.9	4811.4	4802.2	4719.9	4710.8
7.5°	5575.2	5497.4	5273.3	5131.5	4930.3	4816.0	4665.0	4619.3	4559.8	4532.4	4591.9
10°	5845.0	5648.4	5314.5	4957.7	4710.8	4573.6	4463.8	4431.8	4436.4	4418.1	4390.6
12.5°	6037.1	5849.6	5245.9	4811.4	4491.2	4358.6	4349.5	4381.5	4431.8	4408.9	4440.9
15°	6311.5	5959.4	5195.6	4569.0	4312.9	4276.3	4271.7	4367.8	4363.2	4363.2	4358.6
17.5°	6567.6	6069.1	5012.6	4358.6	4125.4	4152.8	4184.8	4180.2	4226.0	4244.3	4276.3
20°	6892.4	6197.2	4756.5	4148.2	3983.6	3974.4	3969.9	3974.4	4020.2	4047.6	4024.7
22.5°	7175.9	6224.6	4541.6	3947.0	3814.4	3777.8	3718.3	3777.8	3754.9	3764.0	3791.5
25°	7422.9	6229.2	4235.1	3796.1	3645.1	3562.8	3517.1	3512.5	3471.3	3466.8	3466.8
27.5°	7628.7	6073.7	3965.3	3585.7	3443.9	3366.1	3361.6	3311.3	3206.1	3137.5	3146.6
30°	7788.8	5954.8	3777.8	3402.7	3265.5	3251.8	3210.6	3096.3	2959.1	2872.2	2872.2
32.5°	8072.3	5717.0	3521.6	3215.2	3146.6	3128.3	3032.3	2931.7	2803.6	2721.3	2707.6
35°	8282.7	5497.4	3352.4	3055.1	3023.1	2986.5	2904.2	2794.5	2757.9	2739.6	2753.3
37.5°	8520.6	5250.5	3146.6	2917.9	2950.0	2881.3	2785.3	2735.0	2863.1	2831.0	2844.8
40°	8900.2	5076.7	2945.4	2835.6	2867.6	2789.9	2666.4	2648.1	2808.2	2693.8	2666.4
42.5°	9595.3	5072.1	2821.9	2712.1	2735.0	2675.5	2565.8	2556.6	2620.7	2483.4	2442.3
45°	10459.8	5232.2	2730.4	2620.7	2602.4	2593.2	2556.6	2515.5	2460.6	2282.2	2236.5
47.5°	11493.4	5492.9	2712.1	2483.4	2506.3	2584.1	2538.3	2433.1	2291.4	2177.0	2154.2
50°	12746.5	6032.5	2666.4	2382.8	2424.0	2547.5	2510.9	2364.5	2236.5	2163.3	2149.6
52.5°	14132.3	6714.0	2606.9	2227.3	2318.8	2515.5	2533.8	2396.5	2209.0	2145.0	2135.9
55°	15765.1	7720.2	2538.3	2058.1	2195.3	2483.4	2533.8	2305.1	2172.4	2172.4	2163.3
57.5°	18989.5	9531.3	2396.5	1902.6	2085.5	2424.0	2460.6	2309.7	2177.0	2177.0	2158.7
60°	23718.5	12357.8	2126.7	1783.7	1980.4	2341.7	2405.7	2241.0	2126.7	2154.2	2149.6
62.5°	27418.5	13217.6	1898.0	1669.4	1875.2	2190.7	2332.5	2167.9	2067.3	2167.9	2177.0
65°	28209.8	12348.6	1664.8	1545.9	1728.8	2044.4	2227.3	2062.7	1980.4	2177.0	2186.2
66°	27926.2	11671.7	1582.5	1509.3	1664.8	1971.2	2163.3	2026.1	1934.6	2167.9	2172.4
67.5°	26663.9	10656.4	1491.0	1431.5	1577.9	1866.0	2090.1	1975.8	1861.4	2140.4	2099.3
70°	23919.8	9037.4	1335.5	1294.3	1454.4	1692.2	1920.9	1847.7	1747.1	1971.2	1898.0
72.5°	18422.3	7221.7	1170.8	1175.4	1312.6	1513.9	1751.7	1701.4	1614.5	1728.8	1683.1
75°	11219.0	4614.7	1019.9	1029.1	1143.4	1344.6	1591.6	1555.0	1449.8	1513.9	1491.0
77.5°	4971.5	2286.8	859.8	878.1	969.6	1184.6	1385.8	1326.3	1216.6	1230.3	1221.1
80°	1930.0	1083.9	699.8	722.6	782.1	946.7	1148.0	1093.1	997.0	978.7	969.6
82.5°	928.4	603.7	539.7	548.8	571.7	754.6	987.9	919.3	791.2	708.9	708.9
85°	466.5	375.0	379.6	347.6	379.6	512.2	667.7	558.0	461.9	411.6	420.8
87.5°	187.5	187.5	187.5	160.1	169.2	242.4	311.0	210.4	192.1	114.3	114.3
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)