

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: P476625

Luminaire Tested: **IFLD-L-SA7E-740-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476625
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-740-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

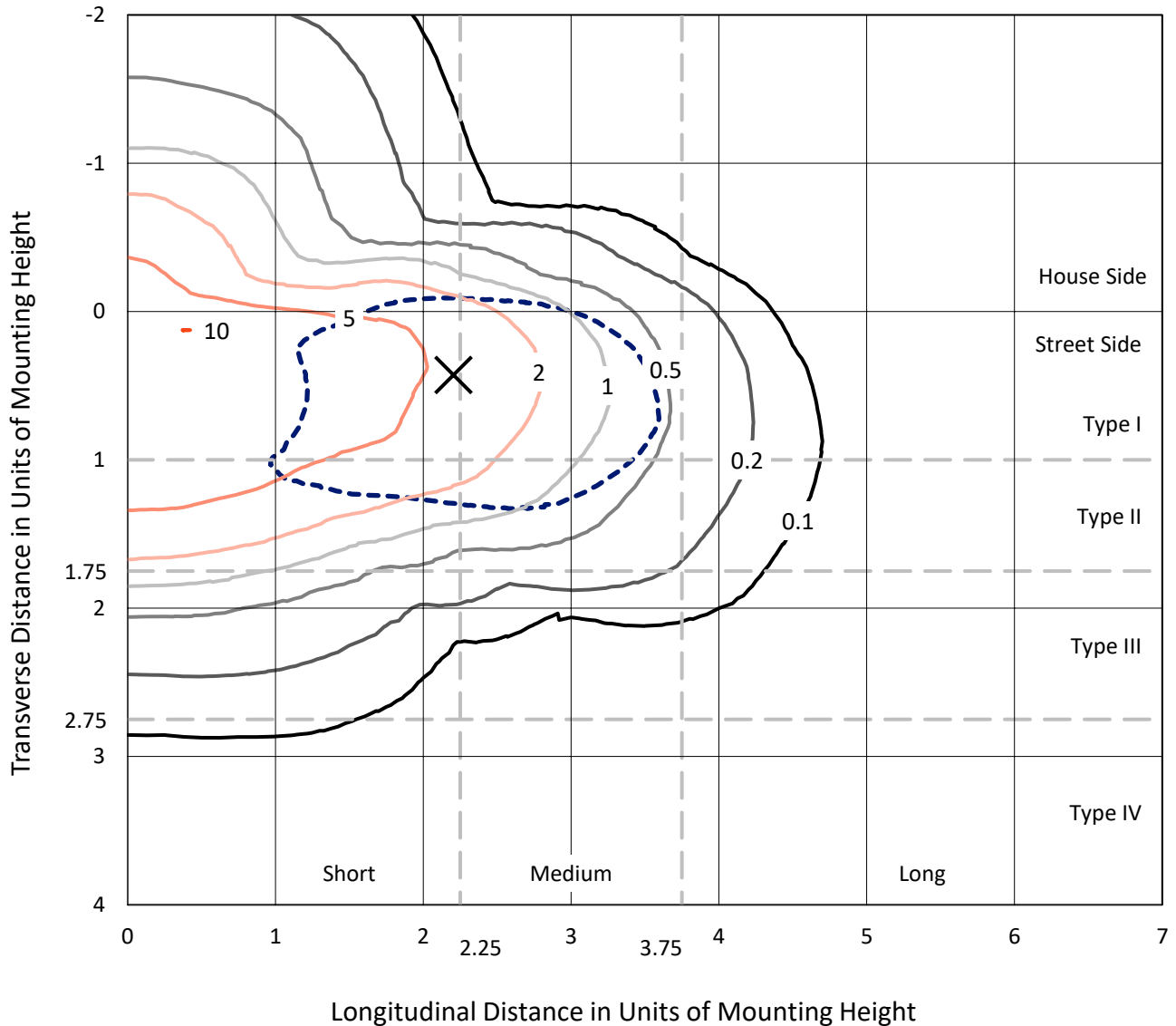
Lumens per Lamp: N/A
Luminaire Lumens: 56383.3 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

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

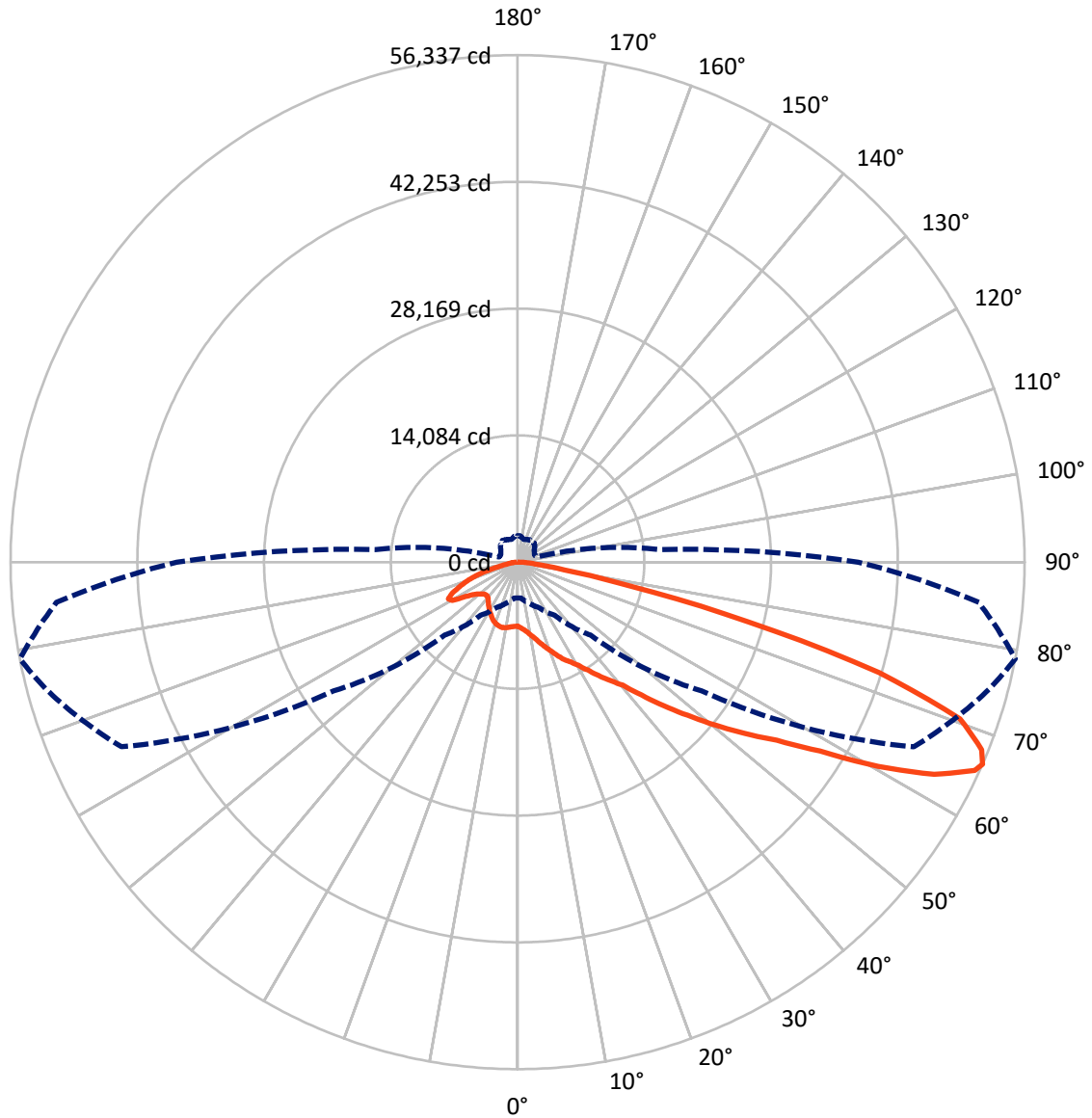
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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	11385.8	0.0	11385.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	44997.5	0.0	44997.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	56383.3	0.0	56383.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.1	1.2
10°-20°	2161.8	3.8
20°-30°	3710.8	6.6
30°-40°	5732.4	10.2
40°-50°	9181.9	16.3
50°-60°	13709.2	24.3
60°-70°	14086.2	25.0
70°-80°	6244.2	11.1
80°-90°	856.8	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°	56383.3	100.0
0°-180°	56383.3	100.0

Coefficient of Utilization



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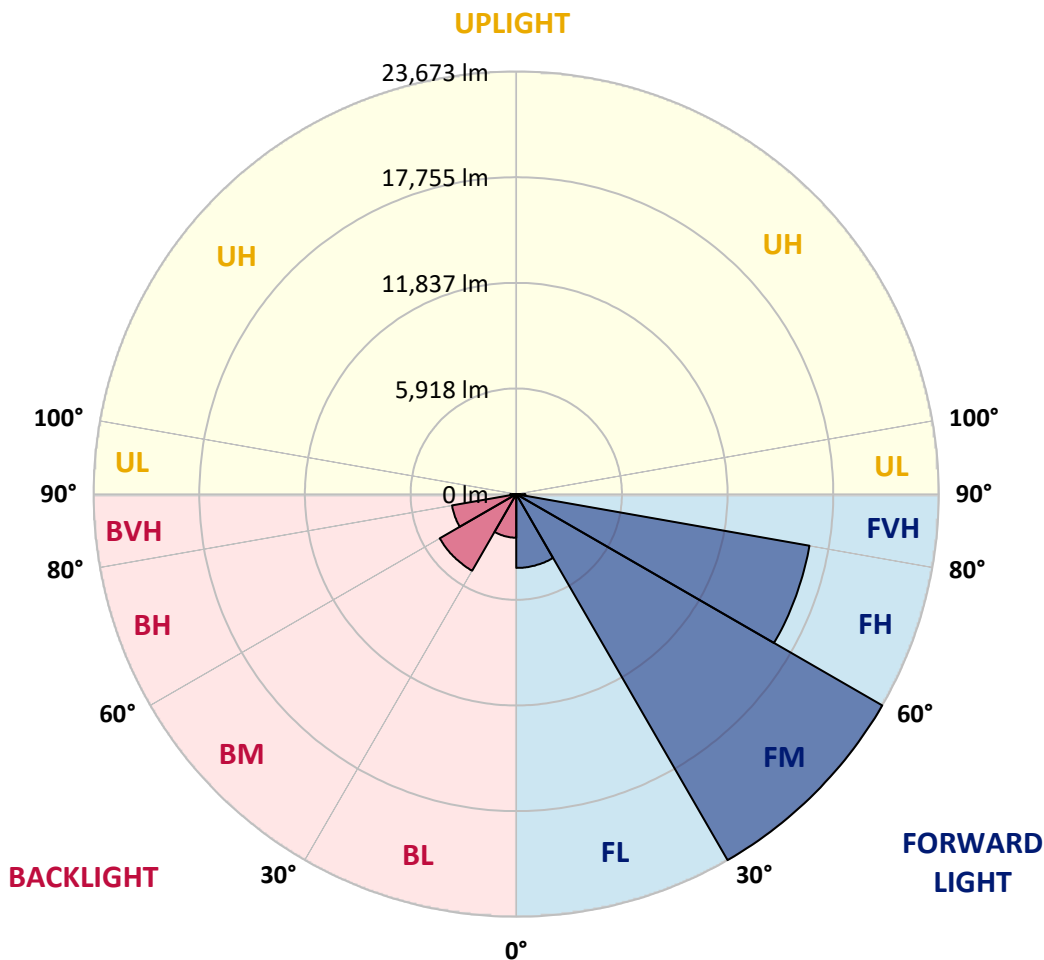
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4133.3	7.3			
FM (30°-60°)	23673.5	42.0			
FH (60°-80°)	16676.9	29.6			G5
FVH (80°-90°)	513.9	0.9			G4/750
BL (0°-30°)	2439.4	4.3	B3/2500		
BM (30°-60°)	4950.0	8.8	B3/5000		
BH (60°-80°)	3653.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	342.9	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°	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6
2.5°	7572.4	7578.6	7578.6	7553.8	7560.0	7578.6	7510.4	7361.5	7361.5	7336.7	7293.3
5°	8037.5	8006.5	7963.1	7969.3	7944.5	7944.5	7870.1	7727.4	7603.4	7553.8	7423.5
7.5°	8099.5	8130.5	8124.3	8198.8	8236.0	8236.0	8273.2	8155.3	7969.3	7851.5	7721.2
10°	8223.6	8142.9	8136.7	8310.4	8366.2	8496.4	8645.3	8583.3	8428.2	8260.8	8087.1
12.5°	8298.0	8347.6	8347.6	8434.4	8564.7	8756.9	9017.4	9135.2	8893.4	8719.7	8453.0
15°	8409.6	8341.4	8539.9	8614.3	8862.3	8998.8	9370.9	9674.8	9513.5	9302.7	8881.0
17.5°	8459.2	8415.8	8527.5	8663.9	9085.6	9290.3	9743.0	10164.7	10028.3	9891.8	9457.7
20°	8713.5	8707.3	8756.9	8868.6	9172.4	9575.6	10139.9	10722.9	10772.5	10524.4	9935.3
22.5°	9333.7	9253.1	9253.1	9209.6	9339.9	9755.4	10518.2	11324.5	11547.7	11256.2	10474.8
25°	9904.2	10015.9	9947.7	9749.2	9699.6	9916.7	10791.1	11963.2	12260.9	11988.0	11206.6
27.5°	10636.1	10673.3	10791.1	10524.4	10183.3	10251.5	11088.8	12322.9	12936.9	12571.0	11622.1
30°	11690.4	11622.1	11597.3	11299.7	10853.1	10760.1	11429.9	12850.1	13823.8	13309.0	12112.1
32.5°	12403.6	12571.0	12564.8	12155.5	11615.9	11411.3	11851.6	13346.2	14772.6	14295.1	13017.5
35°	13817.6	13991.2	13854.8	13253.2	12620.6	12211.3	12459.4	13991.2	15858.0	15485.9	13786.6
37.5°	15622.3	16031.6	15740.1	14630.0	13737.0	13290.4	13302.8	14692.0	16968.1	16664.2	14611.4
40°	16868.9	17420.8	17017.7	15975.8	15026.9	14605.2	14437.8	15523.1	18295.3	17972.8	15901.4
42.5°	18413.1	18872.0	18661.2	17631.7	16521.6	16161.8	15827.0	16912.3	20323.2	20174.4	17557.3
45°	20100.0	20317.0	20248.8	19597.6	18363.5	18239.4	17501.4	18741.8	22710.9	22773.0	19628.6
47.5°	21669.0	21786.9	21917.1	21445.8	20676.7	20782.2	19430.2	20701.6	25030.4	25439.7	21935.7
50°	22072.1	22475.3	22779.2	23095.4	23262.9	23976.1	21557.4	23107.8	27697.2	28491.0	24503.2
52.5°	21662.8	21631.8	22555.9	23548.2	25222.7	26717.3	24453.6	26097.1	30053.8	31622.9	26853.7
55°	19802.3	19740.3	21228.7	22543.5	25811.8	28242.9	28590.2	30078.7	32900.5	34940.9	30035.2
57.5°	16546.4	16161.8	17786.7	19944.9	24534.3	28410.4	32745.4	35989.0	37278.9	39604.6	34891.2
60°	11119.8	10958.6	12515.2	15088.9	19920.1	26035.1	35232.3	43387.7	43449.7	46066.9	42426.4
62.5°	6846.8	6877.8	7876.3	9805.0	13947.8	20639.5	34159.4	49298.0	49310.4	51933.7	48628.2
65°	4477.7	4496.3	5302.5	6369.2	8713.5	13997.4	28249.1	49763.1	53385.0	55822.3	51468.6
66°	3987.7	3993.9	4688.5	5556.8	7218.9	11454.7	24949.8	48553.8	54302.8	56337.0	51431.4
67.5°	3361.4	3442.0	4000.2	4669.9	5631.2	8229.8	19796.1	45056.0	53831.5	55617.6	50265.5
70°	2629.6	2673.0	3113.3	3795.5	4223.4	4763.0	11764.8	36727.0	49273.2	52169.4	46023.4
72.5°	2108.6	2145.8	2480.7	3082.3	3429.6	3138.1	6406.4	26649.1	38922.4	42010.9	36199.8
75°	1779.9	1786.1	1947.4	2424.9	2821.8	2356.7	3411.0	17104.5	24974.6	26413.4	22177.6
77.5°	1438.8	1463.6	1575.3	1848.1	2269.9	1854.3	2034.2	9581.8	12540.0	12645.4	10251.5
80°	1172.1	1184.5	1252.8	1345.8	1730.3	1370.6	1376.8	4676.1	5376.9	5252.9	4167.6
82.5°	924.1	936.5	1017.1	998.5	1271.4	979.9	855.8	2251.2	2474.5	2424.9	1916.4
85°	520.9	520.9	800.0	800.0	806.2	620.2	520.9	1060.5	1308.6	1221.8	899.3
87.5°	167.4	173.6	241.9	254.3	403.1	279.1	254.3	396.9	620.2	545.8	322.5
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°	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6	7119.6
2.5°	7268.5	7169.3	7125.8	6983.2	6946.0	6853.0	6809.6	6753.7	6735.1	6654.5	6728.9
5°	7324.3	7293.3	7119.6	6939.8	6803.4	6741.3	6648.3	6524.3	6511.9	6400.2	6387.8
7.5°	7560.0	7454.5	7150.7	6958.4	6685.5	6530.5	6325.8	6263.8	6183.2	6146.0	6226.6
10°	7925.9	7659.2	7206.5	6722.7	6387.8	6201.8	6052.9	6009.5	6015.7	5990.9	5953.7
12.5°	8186.4	7932.1	7113.4	6524.3	6090.2	5910.3	5897.9	5941.3	6009.5	5978.5	6021.9
15°	8558.5	8080.9	7045.2	6195.6	5848.3	5798.7	5792.5	5922.7	5916.5	5916.5	5910.3
17.5°	8905.8	8229.8	6797.2	5910.3	5594.0	5631.2	5674.6	5668.4	5730.4	5755.3	5798.7
20°	9346.1	8403.4	6449.9	5625.0	5401.8	5389.4	5383.1	5389.4	5451.4	5488.6	5457.6
22.5°	9730.6	8440.6	6158.4	5352.1	5172.3	5122.7	5042.1	5122.7	5091.7	5104.1	5141.3
25°	10065.5	8446.8	5742.9	5147.5	4942.8	4831.2	4769.2	4763.0	4707.2	4701.0	4701.0
27.5°	10344.6	8236.0	5376.9	4862.2	4669.9	4564.5	4558.3	4490.1	4347.5	4254.4	4266.8
30°	10561.6	8074.7	5122.7	4614.1	4428.1	4409.5	4353.7	4198.6	4012.6	3894.7	3894.7
32.5°	10946.1	7752.2	4775.4	4359.9	4266.8	4242.0	4111.8	3975.3	3801.7	3690.1	3671.5
35°	11231.4	7454.5	4545.9	4142.8	4099.4	4049.8	3938.1	3789.3	3739.7	3714.9	3733.5
37.5°	11553.9	7119.6	4266.8	3956.7	4000.2	3907.1	3776.9	3708.7	3882.3	3838.9	3857.5
40°	12068.7	6884.0	3993.9	3845.1	3888.5	3783.1	3615.6	3590.8	3807.9	3652.9	3615.6
42.5°	13011.3	6877.8	3826.5	3677.7	3708.7	3628.0	3479.2	3466.8	3553.6	3367.6	3311.8
45°	14183.5	7094.8	3702.5	3553.6	3528.8	3516.4	3466.8	3411.0	3336.6	3094.7	3032.7
47.5°	15585.1	7448.3	3677.7	3367.6	3398.6	3504.0	3442.0	3299.3	3107.1	2952.0	2921.0
50°	17284.4	8180.2	3615.6	3231.1	3286.9	3454.4	3404.8	3206.3	3032.7	2933.4	2914.8
52.5°	19163.5	9104.2	3535.0	3020.3	3144.3	3411.0	3435.8	3249.7	2995.5	2908.6	2896.2
55°	21377.5	10468.6	3442.0	2790.8	2976.9	3367.6	3435.8	3125.7	2945.8	2945.8	2933.4
57.5°	25749.8	12924.5	3249.7	2579.9	2828.0	3286.9	3336.6	3131.9	2952.0	2952.0	2927.2
60°	32162.5	16757.2	2883.8	2418.7	2685.4	3175.3	3262.1	3038.9	2883.8	2921.0	2914.8
62.5°	37179.7	17923.2	2573.7	2263.7	2542.7	2970.7	3162.9	2939.6	2803.2	2939.6	2952.0
65°	38252.6	16744.8	2257.4	2096.2	2344.3	2772.2	3020.3	2797.0	2685.4	2952.0	2964.5
66°	37868.1	15827.0	2145.8	2046.6	2257.4	2673.0	2933.4	2747.4	2623.4	2939.6	2945.8
67.5°	36156.4	14450.2	2021.8	1941.2	2139.6	2530.3	2834.2	2679.2	2524.1	2902.4	2846.6
70°	32435.3	12254.7	1810.9	1755.1	1972.2	2294.7	2604.7	2505.5	2369.1	2673.0	2573.7
72.5°	24980.8	9792.6	1587.7	1593.9	1779.9	2052.8	2375.3	2307.1	2189.2	2344.3	2282.3
75°	15213.0	6257.6	1383.0	1395.4	1550.4	1823.3	2158.2	2108.6	1966.0	2052.8	2021.8
77.5°	6741.3	3100.9	1165.9	1190.7	1314.8	1606.3	1879.1	1798.5	1649.7	1668.3	1655.9
80°	2617.2	1469.8	948.9	979.9	1060.5	1283.8	1556.6	1482.2	1352.0	1327.2	1314.8
82.5°	1259.0	818.6	731.8	744.2	775.2	1023.3	1339.6	1246.6	1072.9	961.3	961.3
85°	632.6	508.5	514.7	471.3	514.7	694.6	905.5	756.6	626.4	558.2	570.6
87.5°	254.3	254.3	254.3	217.1	229.5	328.7	421.7	285.3	260.5	155.0	155.0
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)