

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: P476589

Luminaire Tested: **IFLD-L-SA8C-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476589
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

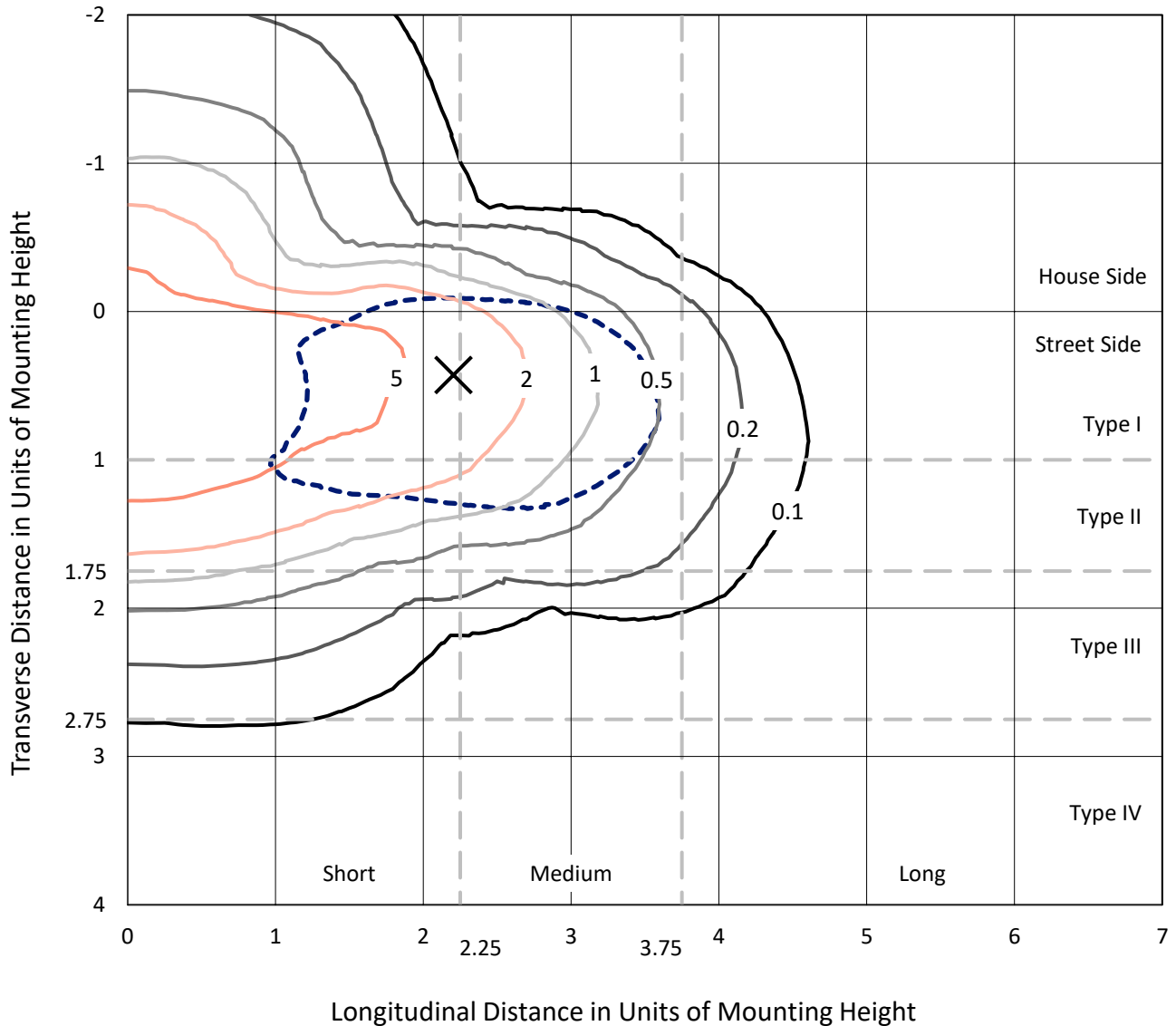
Lumens per Lamp: N/A
Luminaire Lumens: 49909.6 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

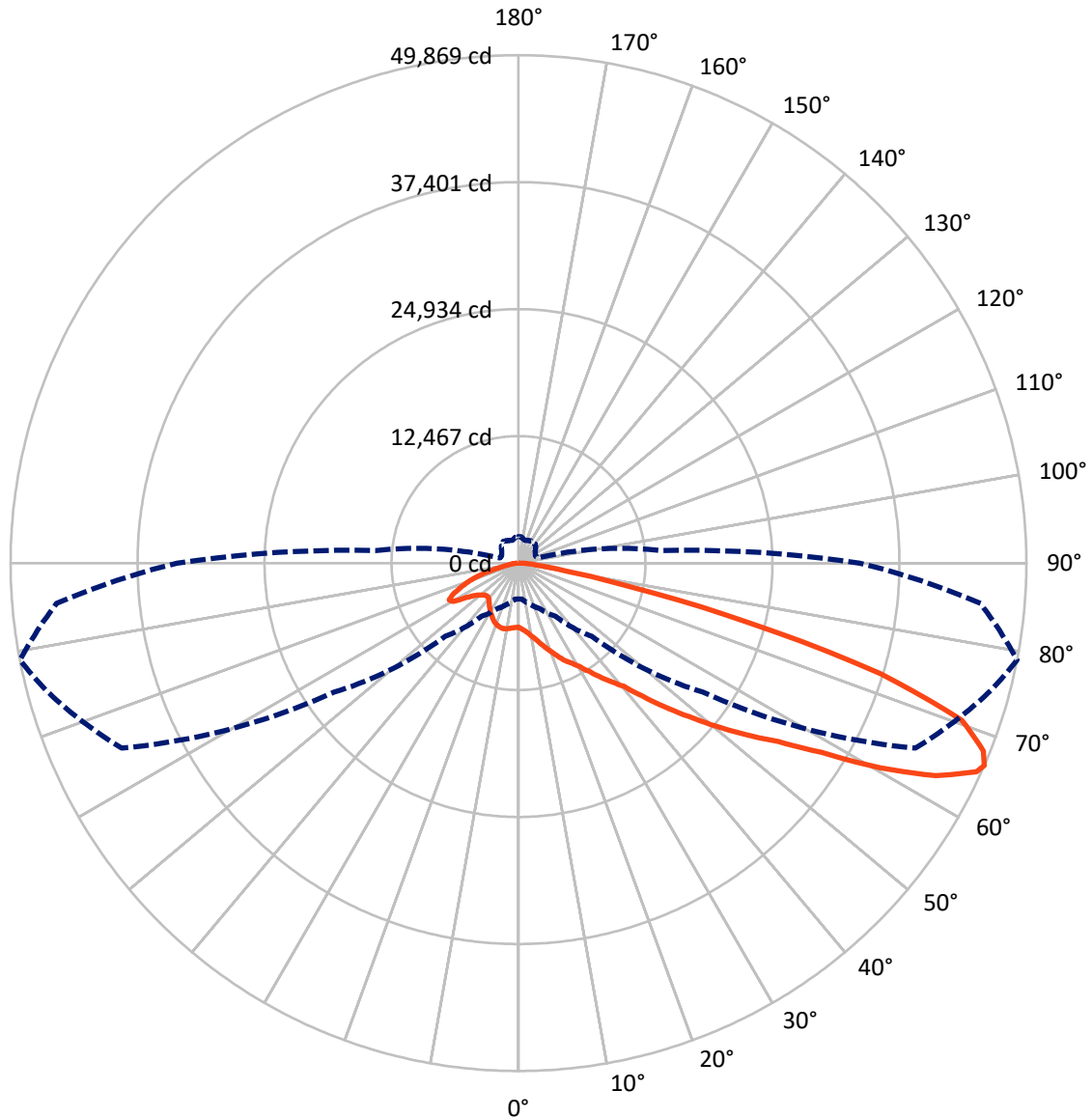
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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	10078.5	0.0	10078.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	39831.0	0.0	39831.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	49909.6	0.0	49909.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.7	1.2
10°-20°	1913.6	3.8
20°-30°	3284.7	6.6
30°-40°	5074.2	10.2
40°-50°	8127.7	16.3
50°-60°	12135.2	24.3
60°-70°	12468.9	25.0
70°-80°	5527.3	11.1
80°-90°	758.4	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°	49909.6	100.0
0°-180°	49909.6	100.0

Coefficient of Utilization



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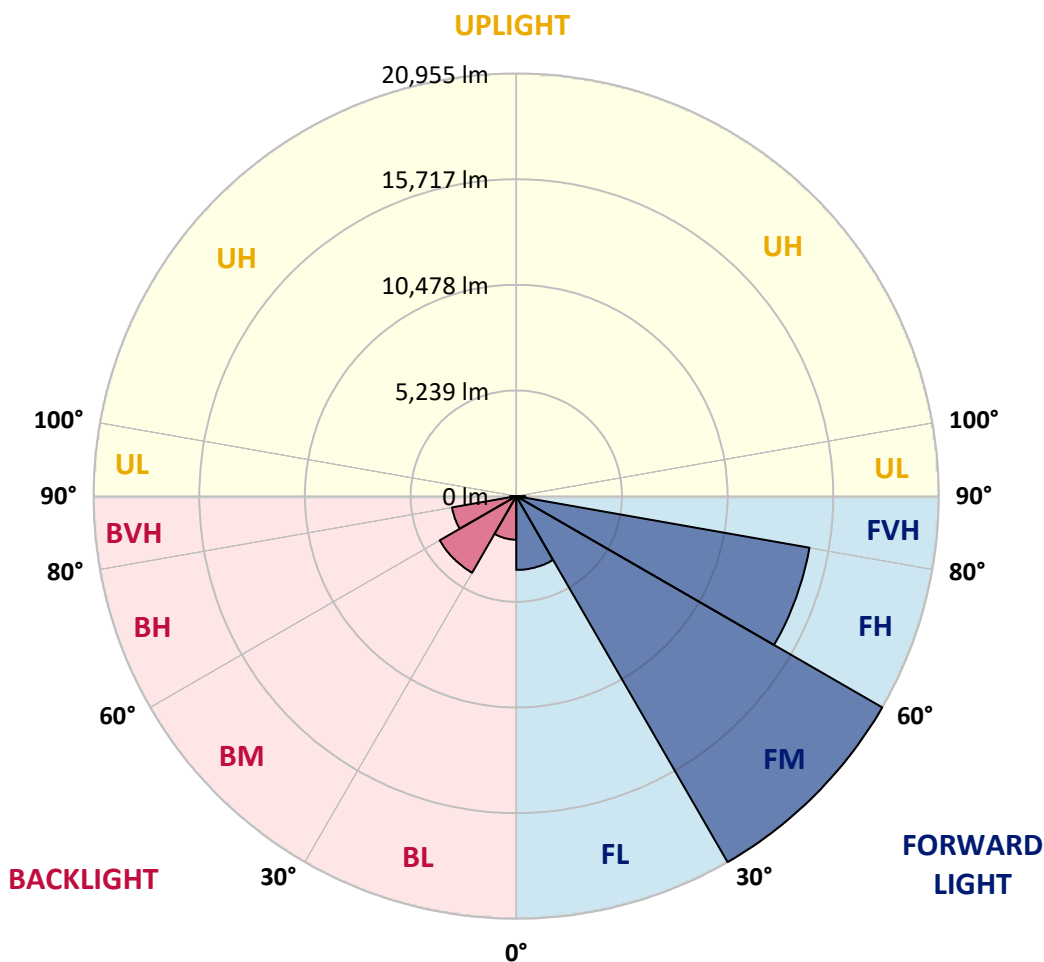
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3658.7	7.3			
FM (30°-60°)	20955.4	42.0			
FH (60°-80°)	14762.1	29.6			G5
FVH (80°-90°)	454.9	0.9			G3/500
BL (0°-30°)	2159.3	4.3	B3/2500		
BM (30°-60°)	4381.7	8.8	B3/5000		
BH (60°-80°)	3234.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	303.5	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°	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2
2.5°	6702.9	6708.4	6708.4	6686.5	6692.0	6708.4	6648.0	6516.3	6516.3	6494.3	6455.9
5°	7114.7	7087.2	7048.8	7054.3	7032.3	7032.3	6966.5	6840.2	6730.4	6686.5	6571.2
7.5°	7169.6	7197.0	7191.5	7257.4	7290.3	7290.3	7323.3	7219.0	7054.3	6950.0	6834.7
10°	7279.4	7208.0	7202.5	7356.2	7405.6	7520.9	7652.7	7597.8	7460.5	7312.3	7158.6
12.5°	7345.2	7389.2	7389.2	7466.0	7581.3	7751.5	7982.0	8086.4	7872.3	7718.5	7482.5
15°	7444.1	7383.7	7559.3	7625.2	7844.8	7965.6	8295.0	8564.0	8421.2	8234.6	7861.3
17.5°	7488.0	7449.5	7548.4	7669.1	8042.4	8223.6	8624.3	8997.6	8876.9	8756.1	8371.8
20°	7713.1	7707.6	7751.5	7850.3	8119.3	8476.1	8975.7	9491.7	9535.6	9316.0	8794.5
22.5°	8262.0	8190.7	8190.7	8152.2	8267.5	8635.3	9310.6	10024.2	10221.9	9963.8	9272.1
25°	8767.1	8865.9	8805.5	8629.8	8585.9	8778.1	9552.1	10589.7	10853.2	10611.6	9919.9
27.5°	9414.9	9447.8	9552.1	9316.0	9014.1	9074.5	9815.6	10908.1	11451.5	11127.7	10287.7
30°	10348.1	10287.7	10265.8	10002.3	9607.0	9524.7	10117.5	11374.7	12236.6	11780.9	10721.4
32.5°	10979.4	11127.7	11122.2	10759.8	10282.2	10101.1	10490.8	11813.9	13076.5	12653.8	11522.9
35°	12231.1	12384.8	12264.0	11731.5	11171.6	10809.3	11028.8	12384.8	14037.2	13707.8	12203.6
37.5°	13828.6	14190.9	13932.9	12950.2	12159.7	11764.5	11775.4	13005.1	15019.9	14750.9	12933.8
40°	14932.0	15420.6	15063.8	14141.5	13301.6	12928.3	12780.1	13740.8	16194.7	15909.2	14075.6
42.5°	16299.0	16705.2	16518.6	15607.3	14624.6	14306.2	14009.8	14970.5	17989.8	17858.0	15541.4
45°	17792.2	17984.3	17923.9	17347.5	16255.1	16145.3	15492.0	16589.9	20103.3	20158.2	17375.0
47.5°	19181.1	19285.4	19400.7	18983.4	18302.7	18396.0	17199.3	18324.7	22156.5	22518.8	19417.1
50°	19537.9	19894.7	20163.7	20443.7	20591.9	21223.2	19082.3	20454.7	24517.1	25219.8	21689.9
52.5°	19175.6	19148.1	19966.1	20844.5	22326.7	23649.7	21646.0	23100.7	26603.2	27992.1	23770.5
55°	17528.7	17473.8	18791.3	19955.1	22848.2	25000.2	25307.6	26625.1	29122.9	30929.1	26586.7
57.5°	14646.6	14306.2	15744.5	17654.9	21717.3	25148.4	28985.7	31856.8	32998.7	35057.3	30885.1
60°	9843.1	9700.3	11078.2	13356.5	17633.0	23045.8	31187.1	38406.1	38461.0	40777.6	37555.1
62.5°	6060.6	6088.1	6971.9	8679.2	12346.4	18269.8	30237.4	43637.8	43648.7	45970.9	43044.9
65°	3963.6	3980.0	4693.7	5637.9	7713.1	12390.3	25005.7	44049.5	47255.5	49412.9	45559.2
66°	3529.9	3535.4	4150.2	4918.8	6390.0	10139.5	22085.1	42979.0	48068.0	49868.6	45526.2
67.5°	2975.4	3046.8	3540.9	4133.8	4984.7	7284.9	17523.2	39882.8	47650.7	49231.8	44494.2
70°	2327.6	2366.1	2755.8	3359.7	3738.5	4216.1	10414.0	32510.1	43615.8	46179.5	40739.2
72.5°	1866.5	1899.4	2195.9	2728.4	3035.8	2777.8	5670.9	23589.3	34453.5	37187.3	32043.5
75°	1575.5	1581.0	1723.8	2146.5	2497.8	2086.1	3019.3	15140.6	22107.1	23380.7	19631.2
77.5°	1273.6	1295.6	1394.4	1635.9	2009.2	1641.4	1800.6	8481.6	11100.2	11193.5	9074.5
80°	1037.6	1048.5	1108.9	1191.3	1531.6	1213.2	1218.7	4139.2	4759.6	4649.8	3689.1
82.5°	818.0	828.9	900.3	883.8	1125.4	867.4	757.6	1992.8	2190.4	2146.5	1696.3
85°	461.1	461.1	708.2	708.2	713.7	549.0	461.1	938.7	1158.3	1081.5	796.0
87.5°	148.2	153.7	214.1	225.1	356.8	247.0	225.1	351.3	549.0	483.1	285.5
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°	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2	6302.2
2.5°	6433.9	6346.1	6307.7	6181.4	6148.5	6066.1	6027.7	5978.3	5961.8	5890.5	5956.3
5°	6483.4	6455.9	6302.2	6143.0	6022.2	5967.3	5885.0	5775.2	5764.2	5665.4	5654.4
7.5°	6692.0	6598.6	6329.6	6159.5	5917.9	5780.7	5599.5	5544.6	5473.2	5440.3	5511.7
10°	7015.9	6779.8	6379.1	5950.9	5654.4	5489.7	5358.0	5319.5	5325.0	5303.1	5270.1
12.5°	7246.4	7021.3	6296.7	5775.2	5390.9	5231.7	5220.7	5259.1	5319.5	5292.1	5330.5
15°	7575.8	7153.1	6236.3	5484.2	5176.8	5132.9	5127.4	5242.7	5237.2	5237.2	5231.7
17.5°	7883.2	7284.9	6016.7	5231.7	4951.7	4984.7	5023.1	5017.6	5072.5	5094.5	5132.9
20°	8273.0	7438.6	5709.3	4979.2	4781.5	4770.6	4765.1	4770.6	4825.5	4858.4	4831.0
22.5°	8613.4	7471.5	5451.3	4737.6	4578.4	4534.5	4463.1	4534.5	4507.1	4518.0	4551.0
25°	8909.8	7477.0	5083.5	4556.5	4375.3	4276.5	4221.6	4216.1	4166.7	4161.2	4161.2
27.5°	9156.8	7290.3	4759.6	4303.9	4133.8	4040.4	4034.9	3974.6	3848.3	3765.9	3776.9
30°	9349.0	7147.6	4534.5	4084.3	3919.7	3903.2	3853.8	3716.5	3551.8	3447.5	3447.5
32.5°	9689.3	6862.1	4227.1	3859.3	3776.9	3755.0	3639.7	3518.9	3365.2	3266.4	3249.9
35°	9941.9	6598.6	4024.0	3667.1	3628.7	3584.8	3486.0	3354.2	3310.3	3288.3	3304.8
37.5°	10227.3	6302.2	3776.9	3502.4	3540.9	3458.5	3343.2	3282.9	3436.6	3398.1	3414.6
40°	10683.0	6093.6	3535.4	3403.6	3442.1	3348.7	3200.5	3178.5	3370.7	3233.4	3200.5
42.5°	11517.4	6088.1	3387.2	3255.4	3282.9	3211.5	3079.7	3068.8	3145.6	2980.9	2931.5
45°	12555.0	6280.2	3277.4	3145.6	3123.6	3112.7	3068.8	3019.3	2953.5	2739.4	2684.5
47.5°	13795.7	6593.1	3255.4	2980.9	3008.4	3101.7	3046.8	2920.5	2750.3	2613.1	2585.7
50°	15299.8	7240.9	3200.5	2860.1	2909.5	3057.8	3013.9	2838.2	2684.5	2596.6	2580.2
52.5°	16963.2	8058.9	3129.1	2673.5	2783.3	3019.3	3041.3	2876.6	2651.5	2574.7	2563.7
55°	18923.1	9266.6	3046.8	2470.4	2635.1	2980.9	3041.3	2766.8	2607.6	2607.6	2596.6
57.5°	22793.3	11440.6	2876.6	2283.7	2503.3	2909.5	2953.5	2772.3	2613.1	2613.1	2591.1
60°	28469.7	14833.2	2552.7	2141.0	2377.0	2810.7	2887.6	2690.0	2552.7	2585.7	2580.2
62.5°	32910.8	15865.3	2278.2	2003.7	2250.8	2629.6	2799.8	2602.1	2481.4	2602.1	2613.1
65°	33860.6	14822.2	1998.3	1855.5	2075.1	2453.9	2673.5	2475.9	2377.0	2613.1	2624.1
66°	33520.2	14009.8	1899.4	1811.6	1998.3	2366.1	2596.6	2431.9	2322.2	2602.1	2607.6
67.5°	32005.0	12791.0	1789.6	1718.3	1894.0	2239.8	2508.8	2371.6	2234.3	2569.2	2519.8
70°	28711.2	10847.7	1603.0	1553.6	1745.7	2031.2	2305.7	2217.8	2097.1	2366.1	2278.2
72.5°	22112.6	8668.3	1405.4	1410.9	1575.5	1817.1	2102.6	2042.2	1937.9	2075.1	2020.2
75°	13466.3	5539.1	1224.2	1235.2	1372.4	1614.0	1910.4	1866.5	1740.2	1817.1	1789.6
77.5°	5967.3	2744.9	1032.1	1054.0	1163.8	1421.8	1663.4	1592.0	1460.3	1476.7	1465.8
80°	2316.7	1301.1	839.9	867.4	938.7	1136.4	1377.9	1312.0	1196.8	1174.8	1163.8
82.5°	1114.4	724.6	647.8	658.8	686.2	905.8	1185.8	1103.4	949.7	850.9	850.9
85°	560.0	450.2	455.6	417.2	455.6	614.8	801.5	669.7	554.5	494.1	505.1
87.5°	225.1	225.1	225.1	192.1	203.1	291.0	373.3	252.5	230.6	137.2	137.2
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)