

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: P484733

Luminaire Tested: **IFLD-L-SA7A-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484733
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

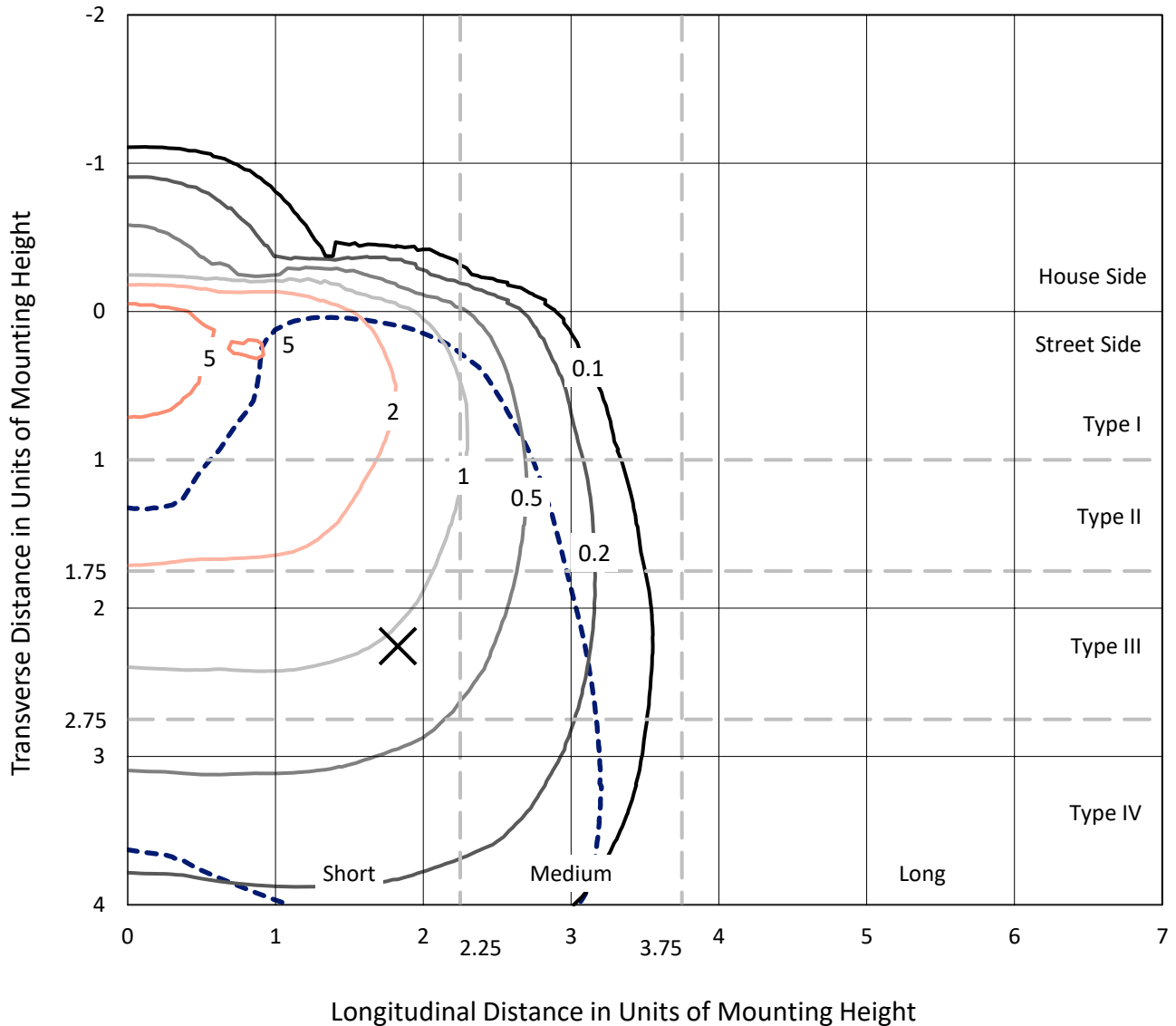
Lumens per Lamp: N/A
Luminaire Lumens: 23546.2 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

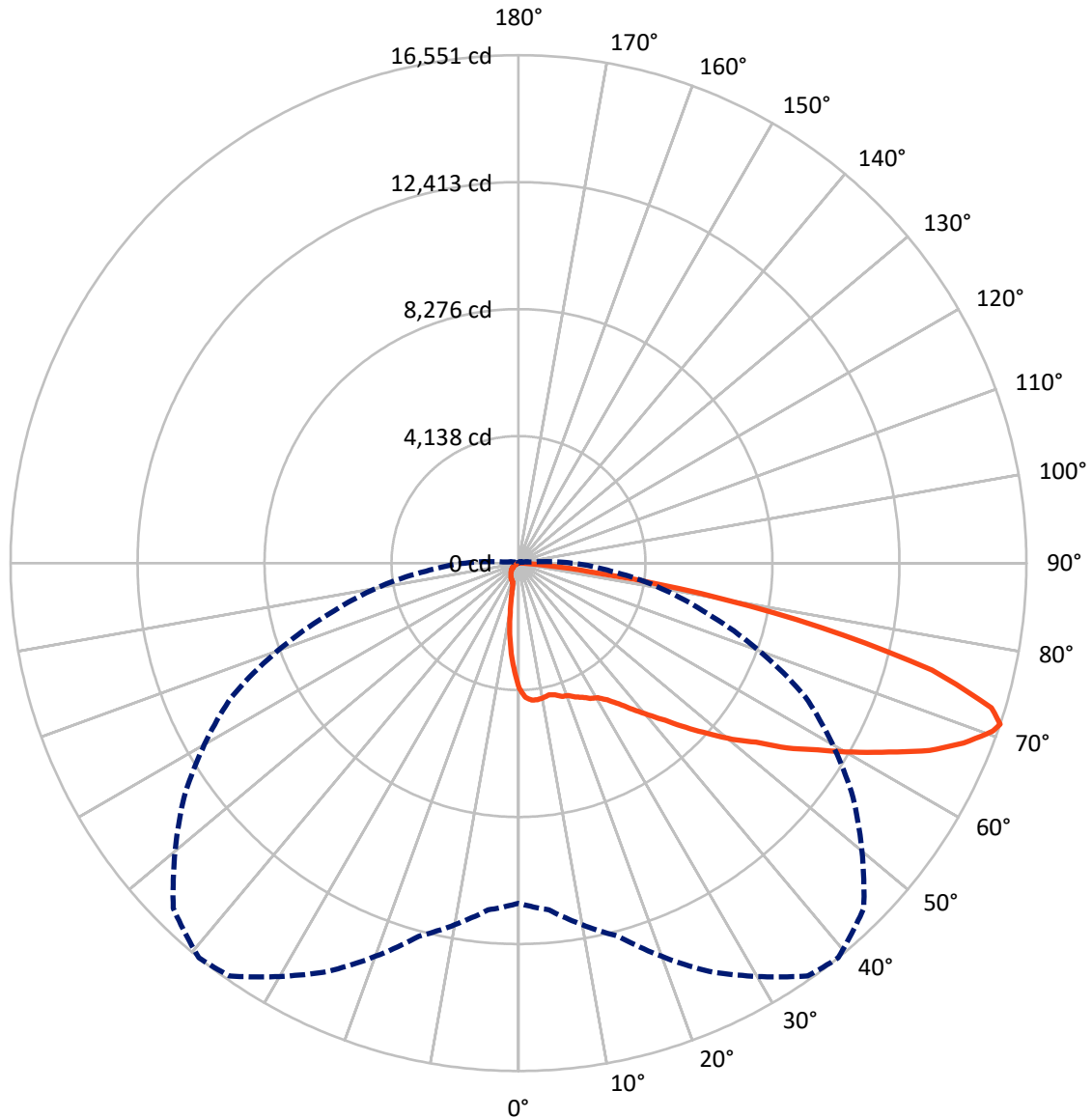
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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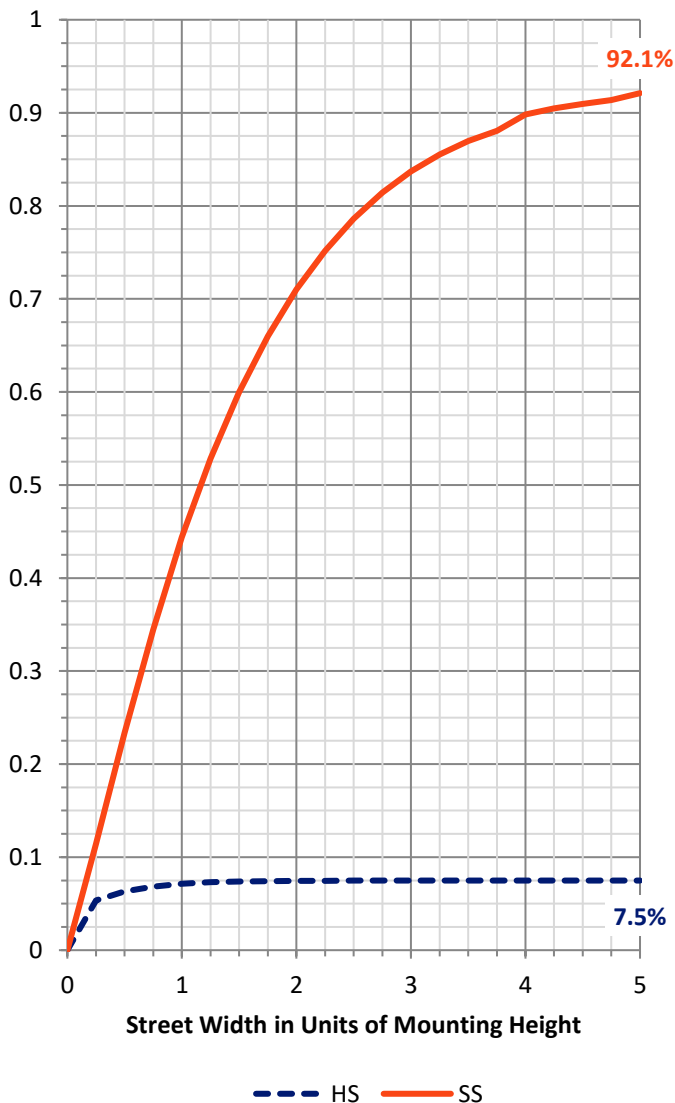
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1772.7	0.0	1772.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21773.6	0.0	21773.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	23546.2	0.0	23546.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	1.5
10°-20°	843.4	3.6
20°-30°	1353.9	5.8
30°-40°	2072.5	8.8
40°-50°	3326.8	14.1
50°-60°	4886.5	20.8
60°-70°	6154.3	26.1
70°-80°	4107.2	17.4
80°-90°	459.0	1.9
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°	23546.2	100.0
0°-180°	23546.2	100.0

Coefficient of Utilization



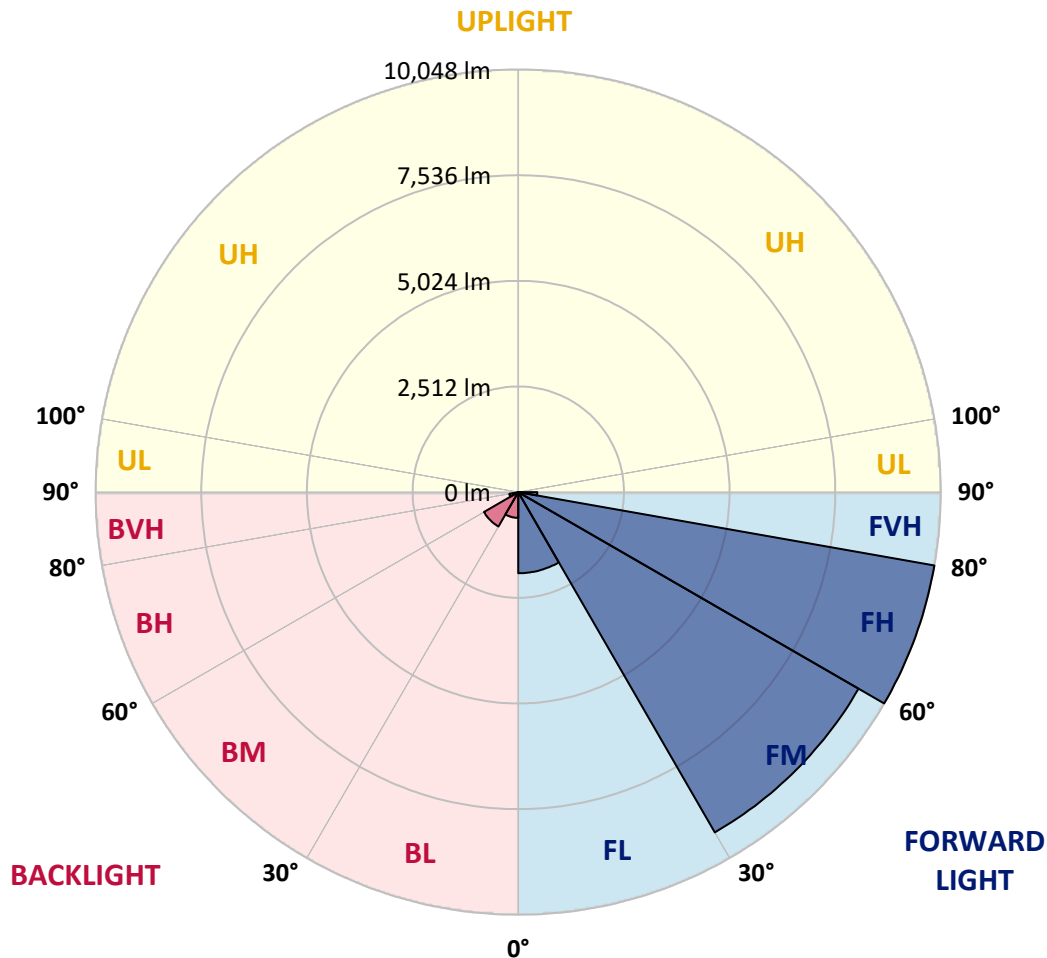
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.9	8.2			
FM (30°-60°)	9343.5	39.7			
FH (60°-80°)	10048.2	42.7			G4/12000
FVH (80°-90°)	453.9	1.9			G3/500
BL (0°-30°)	612.0	2.6	B2/1000		
BM (30°-60°)	942.2	4.0	B1/1000		
BH (60°-80°)	213.4	0.9	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4
2.5°	4416.5	4459.7	4416.5	4397.9	4379.4	4382.5	4333.1	4342.4	4283.7	4206.5	4144.7
5°	4555.5	4614.1	4567.8	4546.2	4543.1	4484.4	4459.7	4401.0	4330.0	4209.6	4135.4
7.5°	4543.1	4530.8	4552.4	4533.8	4493.7	4493.7	4465.9	4382.5	4311.5	4175.6	4049.0
10°	4450.5	4487.5	4469.0	4447.4	4456.6	4459.7	4407.2	4348.5	4326.9	4191.0	3984.1
12.5°	4441.2	4379.4	4447.4	4450.5	4410.3	4407.2	4401.0	4385.6	4317.6	4194.1	3999.5
15°	4410.3	4385.6	4453.5	4456.6	4465.9	4456.6	4465.9	4453.5	4385.6	4314.6	4067.5
17.5°	4435.0	4407.2	4503.0	4549.3	4527.7	4570.9	4555.5	4499.9	4441.2	4357.8	4132.3
20°	4441.2	4481.3	4586.3	4604.9	4672.8	4601.8	4598.7	4540.0	4503.0	4413.4	4172.5
22.5°	4555.5	4574.0	4703.7	4743.9	4746.9	4737.7	4660.5	4592.5	4577.1	4465.9	4181.8
25°	4728.4	4793.3	4851.9	4876.7	4885.9	4842.7	4762.4	4675.9	4638.8	4567.8	4277.5
27.5°	5034.2	4994.0	5046.5	5083.6	4978.6	4994.0	4892.1	4818.0	4765.5	4703.7	4388.7
30°	5306.0	5268.9	5272.0	5265.8	5176.2	5092.8	5065.1	4935.3	4870.5	4895.2	4561.6
32.5°	5549.9	5469.6	5537.6	5506.7	5339.9	5315.2	5293.6	5129.9	5142.3	5256.5	4821.1
35°	5775.4	5747.6	5803.2	5747.6	5636.4	5630.2	5608.6	5466.6	5534.5	5698.2	5265.8
37.5°	5982.3	5991.6	6059.5	6031.7	6041.0	6047.2	6034.8	5883.5	6078.1	6445.6	5784.7
40°	6173.8	6161.5	6328.2	6414.7	6433.2	6501.2	6501.2	6464.1	6763.7	7177.5	6504.3
42.5°	6377.6	6408.5	6624.7	6769.9	6945.9	7004.6	7084.9	7103.4	7566.7	8039.2	7239.3
45°	6711.2	6658.7	6933.6	7276.4	7430.8	7637.7	7761.3	7866.3	8425.3	9073.9	7974.4
47.5°	7134.3	7029.3	7270.2	7767.4	8125.7	8295.6	8517.9	8656.9	9203.6	9873.8	8669.3
50°	7603.8	7495.7	7613.0	8298.7	8715.6	9024.4	9308.6	9484.6	10145.5	10769.4	9175.8
52.5°	8135.0	8036.1	8054.7	8851.5	9466.1	9691.5	10065.2	10327.8	10985.6	11309.9	9354.9
55°	8700.2	8675.4	8616.8	9392.0	10123.9	10630.4	10855.9	11170.9	11847.3	11603.3	9549.5
57.5°	9268.4	9191.2	9274.6	10108.5	11180.2	11482.8	11794.8	11983.2	12326.0	11859.6	9475.4
60°	9802.7	9808.9	9926.3	10886.8	12078.9	12508.2	12789.3	12675.0	12817.1	11970.8	9305.5
62.5°	10253.6	10241.3	10537.8	11760.8	13268.0	13558.3	13768.3	13258.7	13045.6	12078.9	9009.0
65°	10658.2	10797.2	11263.6	12801.6	14386.0	14719.5	14592.9	13811.5	13268.0	11760.8	8175.1
67.5°	10964.0	11170.9	11980.1	13780.6	15411.3	15646.1	15470.0	14231.6	13005.4	10513.1	6658.7
70°	11143.1	11353.1	12492.8	14596.0	16229.8	16399.7	15985.8	13907.3	11473.6	7613.0	4154.0
71°	11087.5	11343.9	12591.6	14682.5	16424.4	16551.0	15908.6	13308.1	10318.5	6374.6	3029.8
72.5°	10584.1	10825.0	12180.8	14620.7	16189.6	16112.4	15306.3	11868.9	8122.6	4064.4	1565.8
75°	7776.7	8036.1	10454.4	12647.2	14450.8	13919.6	12387.8	8329.5	4237.3	1244.6	457.1
77.5°	3872.9	3916.2	6488.8	9182.0	10599.5	10071.4	8301.7	4645.0	1584.4	367.5	228.5
80°	1785.1	1797.5	2433.7	4756.2	6408.5	6031.7	4651.2	2291.6	716.5	194.6	179.1
82.5°	1216.8	1235.4	1467.0	1970.4	2782.7	2347.2	1884.0	1467.0	410.8	117.4	176.0
85°	222.4	203.8	821.5	1043.9	1074.8	728.9	651.7	1269.4	154.4	67.9	154.4
87.5°	0.0	3.1	114.3	426.2	383.0	169.9	222.4	308.8	15.4	21.6	27.8
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°	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4
2.5°	4092.2	4058.2	3943.9	3817.3	3703.0	3613.5	3499.2	3446.7	3363.3	3317.0	3313.9
5°	4033.5	3940.9	3743.2	3530.1	3292.3	3094.6	2875.3	2751.8	2609.7	2566.5	2557.2
7.5°	3934.7	3801.9	3511.6	3212.0	2847.5	2498.6	2229.9	1942.6	1766.6	1692.5	1664.7
10°	3872.9	3712.3	3317.0	2869.2	2359.6	1868.5	1491.7	1186.0	1025.4	948.2	929.6
12.5°	3872.9	3700.0	3159.5	2541.8	1865.4	1278.6	923.4	747.4	694.9	676.4	676.4
15°	3863.6	3675.3	3008.1	2205.2	1380.5	858.6	688.7	651.7	645.5	642.4	639.3
17.5°	3910.0	3632.0	2853.7	1843.8	975.9	676.4	633.1	627.0	620.8	620.8	614.6
20°	3943.9	3607.3	2668.4	1460.8	728.9	627.0	608.4	599.2	596.1	593.0	599.2
22.5°	3916.2	3570.2	2439.9	1093.3	636.2	596.1	583.7	574.5	568.3	568.3	571.4
25°	3968.7	3536.3	2211.3	824.6	596.1	568.3	555.9	549.7	546.7	543.6	537.4
27.5°	4039.7	3551.7	1939.5	664.0	562.1	540.5	528.1	521.9	518.9	512.7	518.9
30°	4126.2	3548.6	1640.0	580.6	531.2	509.6	497.2	494.2	488.0	484.9	488.0
32.5°	4274.4	3628.9	1331.1	537.4	497.2	478.7	466.4	463.3	460.2	457.1	454.0
35°	4592.5	3727.8	1040.8	503.4	466.4	444.7	435.5	429.3	426.2	423.1	420.0
37.5°	4984.8	3947.0	793.7	472.5	435.5	413.9	404.6	401.5	389.1	386.1	383.0
40°	5475.8	4181.8	611.5	438.6	407.7	386.1	376.8	367.5	352.1	345.9	339.7
42.5°	6087.3	4410.3	503.4	407.7	376.8	361.3	345.9	330.5	318.1	305.8	299.6
45°	6698.8	4675.9	441.6	379.9	352.1	333.6	321.2	299.6	278.0	259.4	256.3
47.5°	7208.4	4771.6	404.6	349.0	327.4	311.9	293.4	265.6	234.7	216.2	213.1
50°	7588.3	4716.1	367.5	318.1	299.6	284.1	259.4	225.5	194.6	176.0	169.9
52.5°	7662.4	4472.1	333.6	293.4	271.8	253.3	225.5	188.4	154.4	135.9	132.8
55°	7609.9	4067.5	305.8	271.8	247.1	219.3	188.4	151.3	120.4	101.9	98.8
57.5°	7501.8	3588.8	274.9	244.0	216.2	188.4	154.4	123.5	89.6	71.0	71.0
60°	7134.3	2937.1	244.0	213.1	185.3	160.6	126.6	89.6	61.8	46.3	43.2
62.5°	6621.6	2257.7	213.1	182.2	160.6	132.8	98.8	64.9	37.1	24.7	24.7
65°	5685.8	1581.3	179.1	151.3	132.8	108.1	74.1	40.1	21.6	9.3	9.3
67.5°	4320.7	979.0	148.2	126.6	114.3	86.5	52.5	24.7	9.3	3.1	0.0
70°	2480.0	509.6	117.4	101.9	89.6	64.9	37.1	12.4	6.2	0.0	0.0
71°	1732.6	376.8	105.0	89.6	80.3	58.7	30.9	9.3	3.1	0.0	0.0
72.5°	867.9	250.2	89.6	74.1	64.9	46.3	24.7	9.3	3.1	0.0	0.0
75°	308.8	160.6	61.8	49.4	46.3	34.0	15.4	6.2	3.1	0.0	0.0
77.5°	213.1	129.7	43.2	30.9	30.9	21.6	9.3	3.1	3.1	0.0	0.0
80°	194.6	71.0	27.8	18.5	15.4	12.4	6.2	3.1	0.0	0.0	0.0
82.5°	194.6	52.5	15.4	12.4	9.3	6.2	3.1	0.0	0.0	0.0	0.0
85°	135.9	27.8	9.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	9.3	6.2	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
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)