

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: P480419

Luminaire Tested: **IFLD-S-SA3B-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480419
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

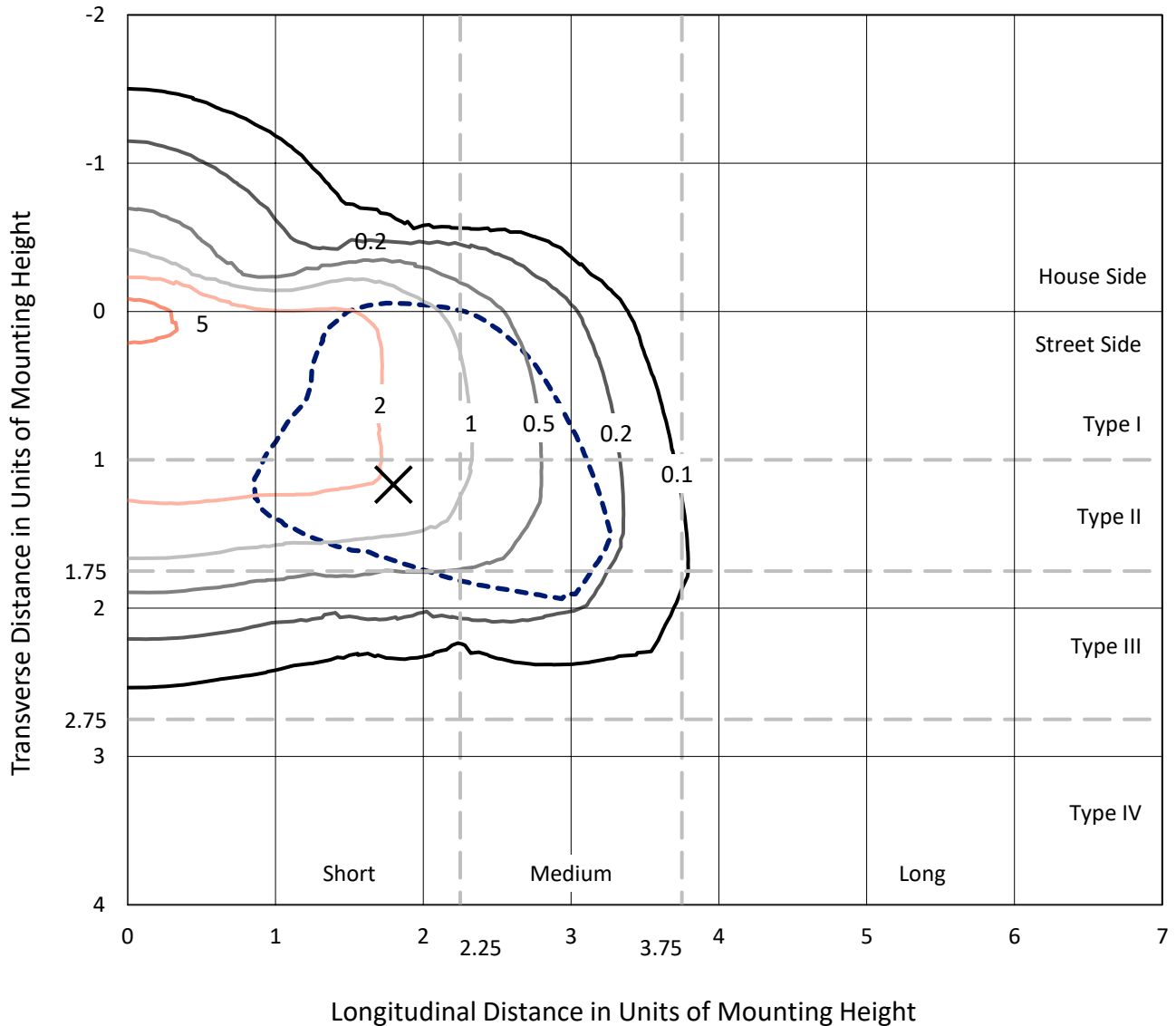
Lumens per Lamp: N/A
Luminaire Lumens: 15289 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
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

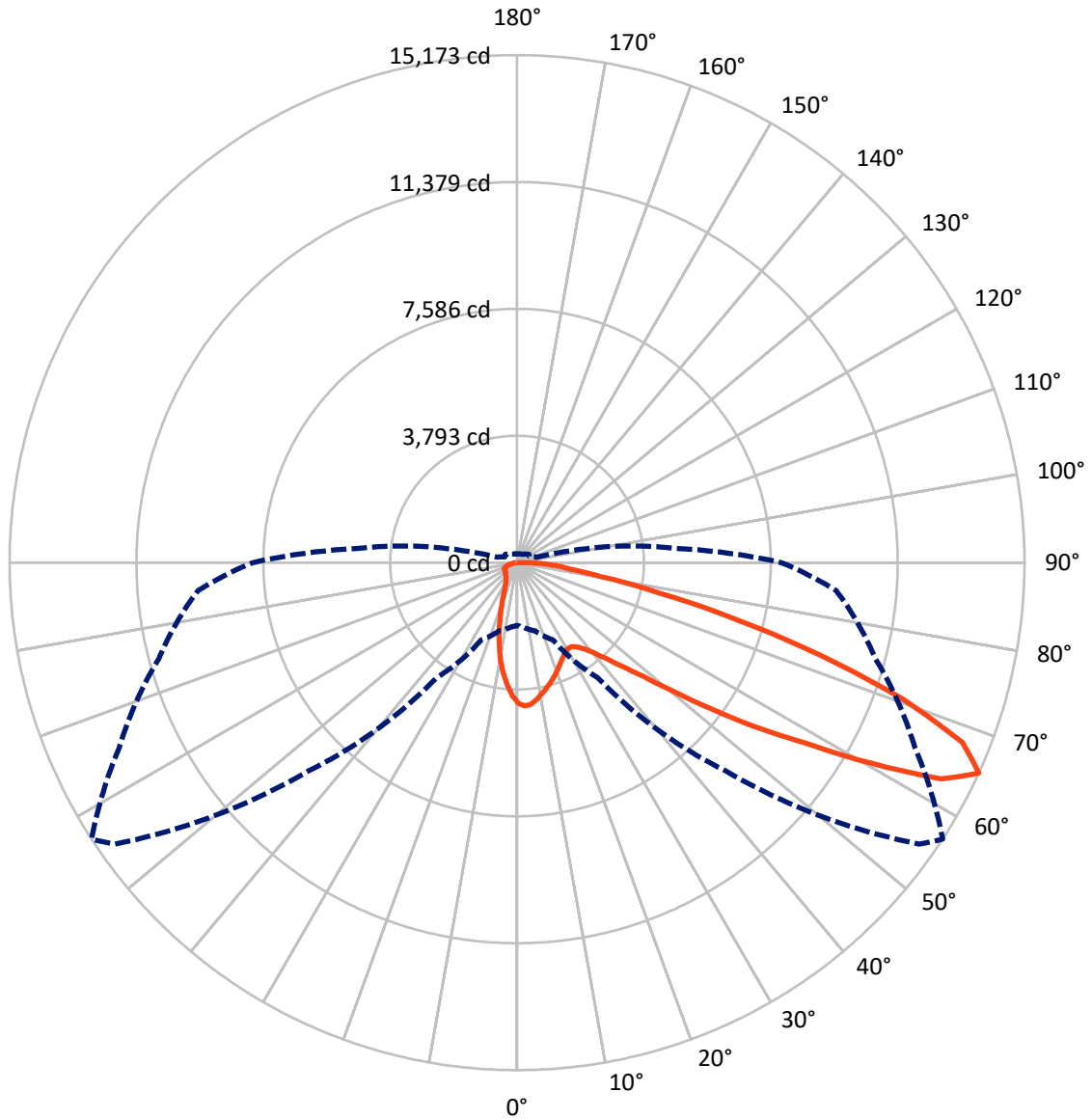
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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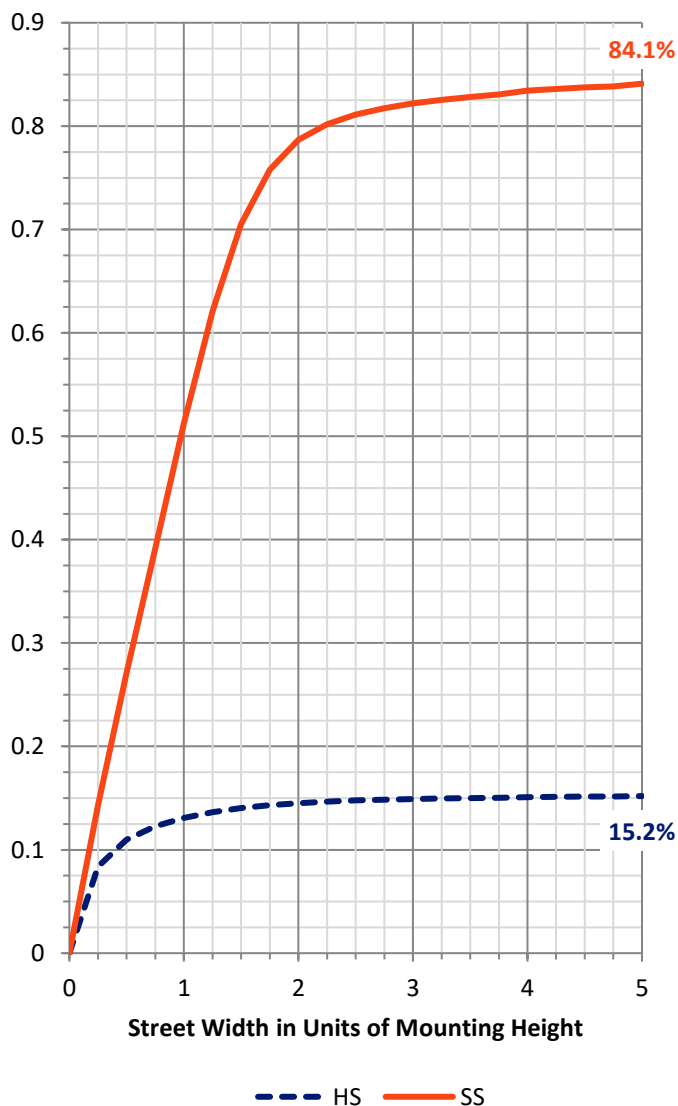
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2344.7	0.0	2344.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	12944.3	0.0	12944.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	15289.0	0.0	15289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.1	2.3
10°-20°	757.7	5.0
20°-30°	979.7	6.4
30°-40°	1318.3	8.6
40°-50°	2102.1	13.7
50°-60°	3712.8	24.3
60°-70°	4084.6	26.7
70°-80°	1708.6	11.2
80°-90°	273.1	1.8
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°	15289.0	100.0
0°-180°	15289.0	100.0

Coefficient of Utilization



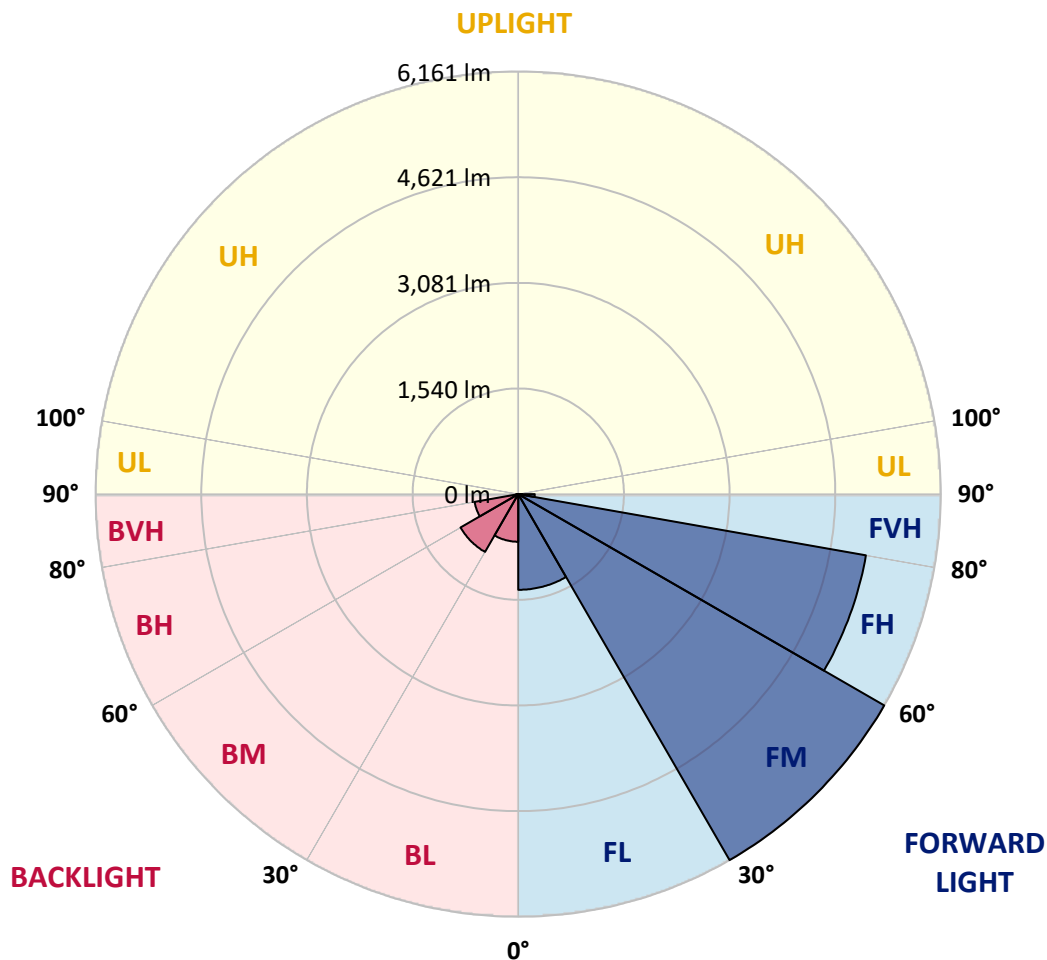
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1395.1	9.1			
FM (30°-60°)	6161.4	40.3			
FH (60°-80°)	5146.7	33.7			G3/7500
FVH (80°-90°)	241.0	1.6			G3/500
BL (0°-30°)	694.4	4.5	B2/1000		
BM (30°-60°)	971.8	6.4	B1/1000		
BH (60°-80°)	646.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	32.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2
2.5°	4317.8	4324.7	4324.7	4338.4	4292.0	4314.3	4310.9	4290.3	4297.1	4261.0	4224.9
5°	4195.6	4190.5	4218.0	4221.5	4257.6	4267.9	4276.5	4262.7	4266.2	4187.0	4152.6
7.5°	3882.6	3880.8	3927.3	3966.9	4042.5	4113.1	4159.5	4145.8	4164.7	4114.8	4033.9
10°	3511.0	3550.6	3598.7	3638.3	3777.6	3867.1	3987.5	3999.5	4071.8	4059.8	3913.5
12.5°	3232.3	3249.5	3285.6	3399.2	3526.5	3674.4	3846.4	3861.9	3932.5	3966.9	3839.6
15°	3003.5	3019.0	3065.5	3149.7	3292.5	3468.0	3686.5	3726.0	3867.1	3879.1	3743.2
17.5°	2836.7	2848.7	2879.7	2964.0	3080.9	3306.3	3512.7	3583.2	3769.0	3827.5	3643.5
20°	2771.3	2745.5	2762.7	2816.0	2933.0	3106.7	3373.4	3435.3	3672.7	3788.0	3548.8
22.5°	2742.1	2719.7	2730.0	2726.6	2819.5	2943.3	3223.7	3289.1	3581.5	3741.5	3464.5
25°	2764.4	2764.4	2754.1	2745.5	2755.8	2836.7	3062.0	3163.5	3459.4	3701.9	3378.5
27.5°	2884.8	2838.4	2843.5	2807.4	2797.1	2797.1	2989.8	3050.0	3419.8	3679.6	3308.0
30°	2962.2	2984.6	2986.3	2933.0	2879.7	2783.3	2922.7	2981.2	3387.1	3707.1	3266.7
32.5°	3160.1	3149.7	3120.5	3110.2	3031.1	2922.7	2955.4	2994.9	3368.2	3769.0	3278.8
35°	3357.9	3352.7	3354.5	3349.3	3266.7	3106.7	3043.1	3096.4	3402.6	3877.4	3320.0
37.5°	3562.6	3576.4	3634.9	3634.9	3547.1	3373.4	3289.1	3273.6	3528.2	4054.6	3418.1
40°	3767.3	3801.7	3875.7	3992.7	3868.8	3707.1	3571.2	3547.1	3679.6	4292.0	3653.8
42.5°	3963.4	4020.2	4166.4	4340.1	4298.9	4137.2	3956.5	3929.0	3990.9	4644.6	3982.3
45°	4214.6	4262.7	4493.2	4759.9	4816.7	4673.9	4462.3	4439.9	4436.5	5160.7	4434.8
47.5°	4596.5	4648.1	4878.6	5146.9	5322.4	5344.8	5107.4	5083.3	5000.7	5857.4	5097.1
50°	5074.7	5159.0	5353.4	5666.4	5921.0	6160.2	6093.1	6022.5	5860.8	6667.6	5936.5
52.5°	5423.9	5527.1	5790.3	6191.1	6640.1	7020.3	7261.1	7261.1	6889.5	7557.0	6946.3
55°	5516.8	5578.7	5910.7	6490.4	7259.4	8221.0	8725.0	8687.2	8114.3	8492.8	8121.2
57.5°	5146.9	5227.8	5630.3	6237.6	7584.5	9344.3	10178.6	10187.2	9452.7	9580.0	9280.7
60°	4128.6	4154.4	4629.1	5441.1	7271.4	10249.1	12163.8	12196.5	10975.1	10548.5	9870.7
62.5°	2853.9	2936.4	3294.2	4006.4	6024.3	10147.7	14078.4	14240.1	12194.7	11059.4	9963.6
65°	1878.5	1928.4	2119.3	2552.8	4193.9	8795.6	14673.6	15172.5	13127.1	11088.6	9574.8
67.5°	1362.4	1371.0	1427.8	1651.4	2520.1	6325.3	13656.9	14360.5	13476.3	10844.3	8663.1
70°	1100.9	1107.8	1128.5	1271.3	1627.3	3958.3	11138.5	12241.2	12428.7	9686.6	6977.3
72.5°	894.5	903.1	928.9	1063.1	1341.8	2201.9	8145.3	9488.8	10109.8	7166.5	4637.7
75°	703.6	710.5	772.4	904.8	1260.9	1512.1	5403.3	6719.2	6803.5	4188.8	2170.9
77.5°	481.7	493.7	569.4	767.2	1187.0	1322.9	3368.2	4304.0	3861.9	1639.4	746.6
80°	306.2	323.4	368.1	581.4	1049.3	1262.7	2095.2	2570.0	1691.0	560.8	359.5
82.5°	180.6	197.8	242.6	376.7	824.0	1171.5	1476.0	1608.4	793.0	287.3	216.7
85°	99.8	111.8	146.2	227.1	483.4	1040.7	1181.8	1154.3	454.1	153.1	135.9
87.5°	32.7	37.8	53.3	91.2	199.5	490.3	708.7	665.7	235.7	70.5	53.3
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°	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2
2.5°	4200.8	4195.6	4118.2	4059.8	3960.0	3877.4	3844.7	3800.0	3798.3	3765.6	3757.0
5°	4099.3	4046.0	3927.3	3813.8	3636.6	3517.9	3409.5	3333.8	3302.8	3235.8	3220.3
7.5°	3968.6	3898.0	3715.7	3502.4	3294.2	3108.5	2939.9	2771.3	2676.7	2644.0	2607.9
10°	3832.7	3708.8	3438.7	3199.6	2908.9	2623.4	2358.4	2121.0	1992.0	1900.9	1861.3
12.5°	3724.3	3559.2	3215.1	2857.3	2473.7	2091.8	1783.9	1534.4	1388.2	1319.4	1288.5
15°	3602.2	3383.7	2970.8	2518.4	2040.2	1606.7	1305.7	1109.6	1051.1	1018.4	1013.2
17.5°	3473.2	3220.3	2705.9	2184.7	1617.0	1209.3	1014.9	935.8	910.0	896.2	889.4
20°	3352.7	3074.1	2434.1	1813.1	1266.1	970.2	879.0	837.8	836.0	842.9	841.2
22.5°	3182.4	2883.1	2165.8	1469.1	1011.5	844.6	786.1	775.8	786.1	794.7	798.2
25°	3086.1	2726.6	1866.5	1166.3	836.0	750.0	731.1	727.7	743.1	753.5	751.7
27.5°	2986.3	2564.9	1587.8	934.1	732.8	682.9	679.5	682.9	698.4	713.9	712.2
30°	2908.9	2435.9	1326.3	781.0	653.7	634.8	631.3	634.8	643.4	645.1	645.1
32.5°	2845.3	2282.7	1104.4	677.8	605.5	590.0	593.5	591.8	593.5	595.2	596.9
35°	2807.4	2191.6	922.0	614.1	566.0	553.9	552.2	547.0	548.8	550.5	548.8
37.5°	2888.3	2146.9	777.5	569.4	538.4	528.1	524.7	521.2	516.1	516.1	516.1
40°	3010.4	2122.8	689.8	540.2	517.8	505.7	495.4	492.0	492.0	493.7	495.4
42.5°	3253.0	2162.3	629.6	517.8	492.0	478.2	467.9	469.6	474.8	479.9	476.5
45°	3603.9	2282.7	602.1	500.6	476.5	457.6	450.7	449.0	454.1	462.7	469.6
47.5°	4063.2	2470.3	591.8	485.1	466.2	440.4	431.8	436.9	443.8	455.9	450.7
50°	4814.9	2891.7	600.4	471.3	450.7	431.8	421.5	416.3	421.5	430.1	433.5
52.5°	5797.2	3657.2	633.0	464.5	440.4	424.9	407.7	399.1	404.3	411.1	411.1
55°	6972.1	4703.1	724.2	455.9	423.2	414.6	395.7	378.5	381.9	381.9	380.2
57.5°	8007.7	5492.7	832.6	443.8	412.9	400.8	376.7	356.1	352.6	354.4	356.1
60°	8472.1	5702.6	884.2	440.4	412.9	383.6	350.9	330.3	325.1	321.7	321.7
62.5°	8391.3	5339.6	779.3	424.9	423.2	369.9	326.8	304.5	297.6	290.7	292.4
65°	7902.8	4821.8	614.1	404.3	424.9	361.2	302.8	280.4	268.4	259.8	258.0
67.5°	7009.9	4116.5	486.8	388.8	407.7	345.8	282.1	256.3	246.0	237.4	234.0
70°	5484.1	3227.2	423.2	368.1	366.4	307.9	258.0	235.7	220.2	209.9	209.9
72.5°	3555.7	2040.2	363.0	326.8	316.5	258.0	223.6	209.9	197.8	189.2	189.2
75°	1610.1	947.8	292.4	273.5	258.0	206.4	189.2	182.3	172.0	163.4	163.4
77.5°	578.0	404.3	218.5	215.0	192.7	160.0	153.1	147.9	141.1	132.5	132.5
80°	323.4	256.3	163.4	156.5	134.2	118.7	110.1	110.1	106.7	101.5	99.8
82.5°	204.7	166.9	120.4	104.9	87.7	79.1	75.7	74.0	72.2	65.4	63.6
85°	129.0	113.5	79.1	61.9	51.6	39.6	37.8	36.1	32.7	29.2	29.2
87.5°	58.5	65.4	31.0	18.9	13.8	8.6	5.2	1.7	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)