

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: P480066

Luminaire Tested: **IFLD-S-SA2E-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480066
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

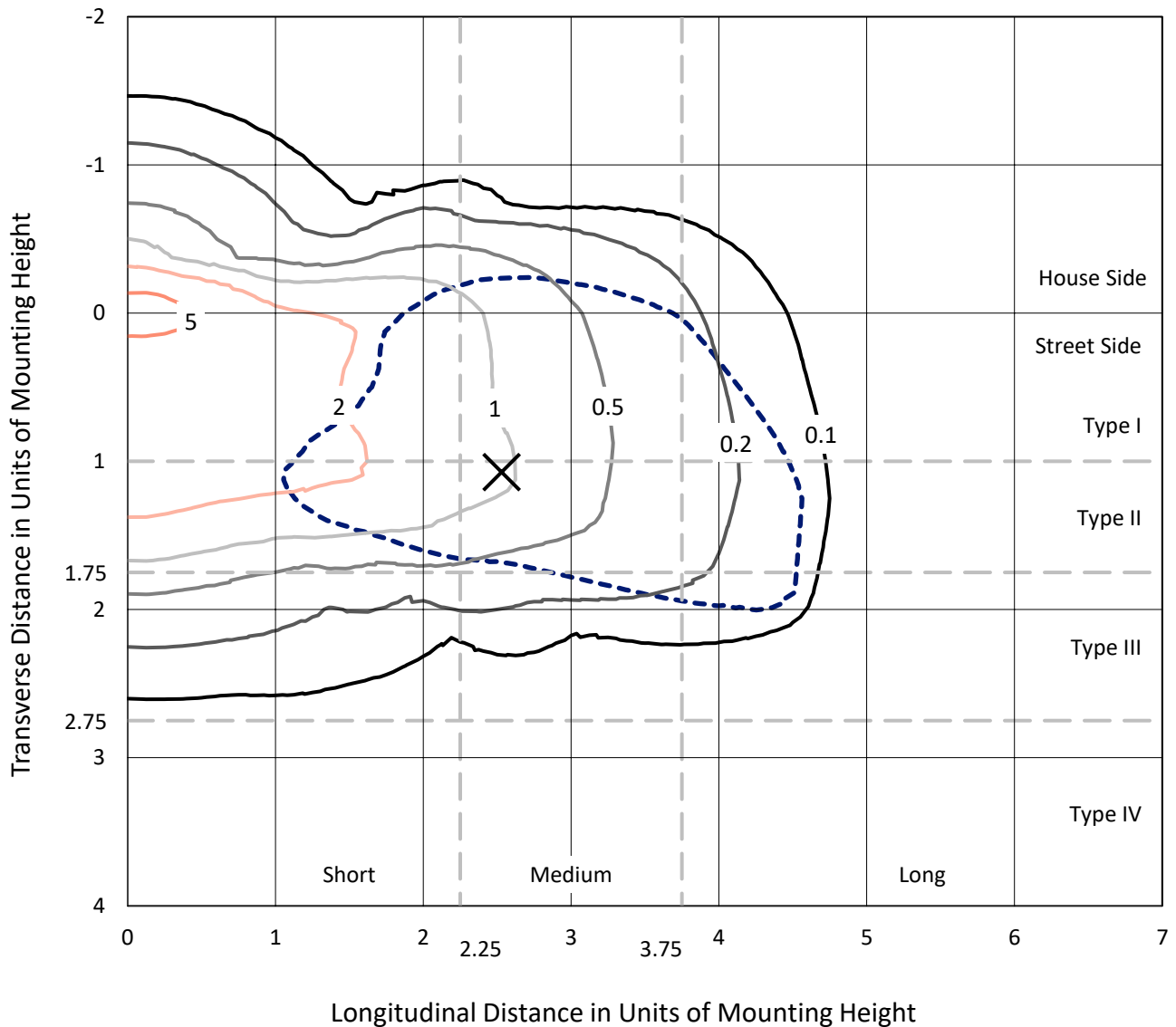
Lumens per Lamp: N/A
Luminaire Lumens: 17798.9 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

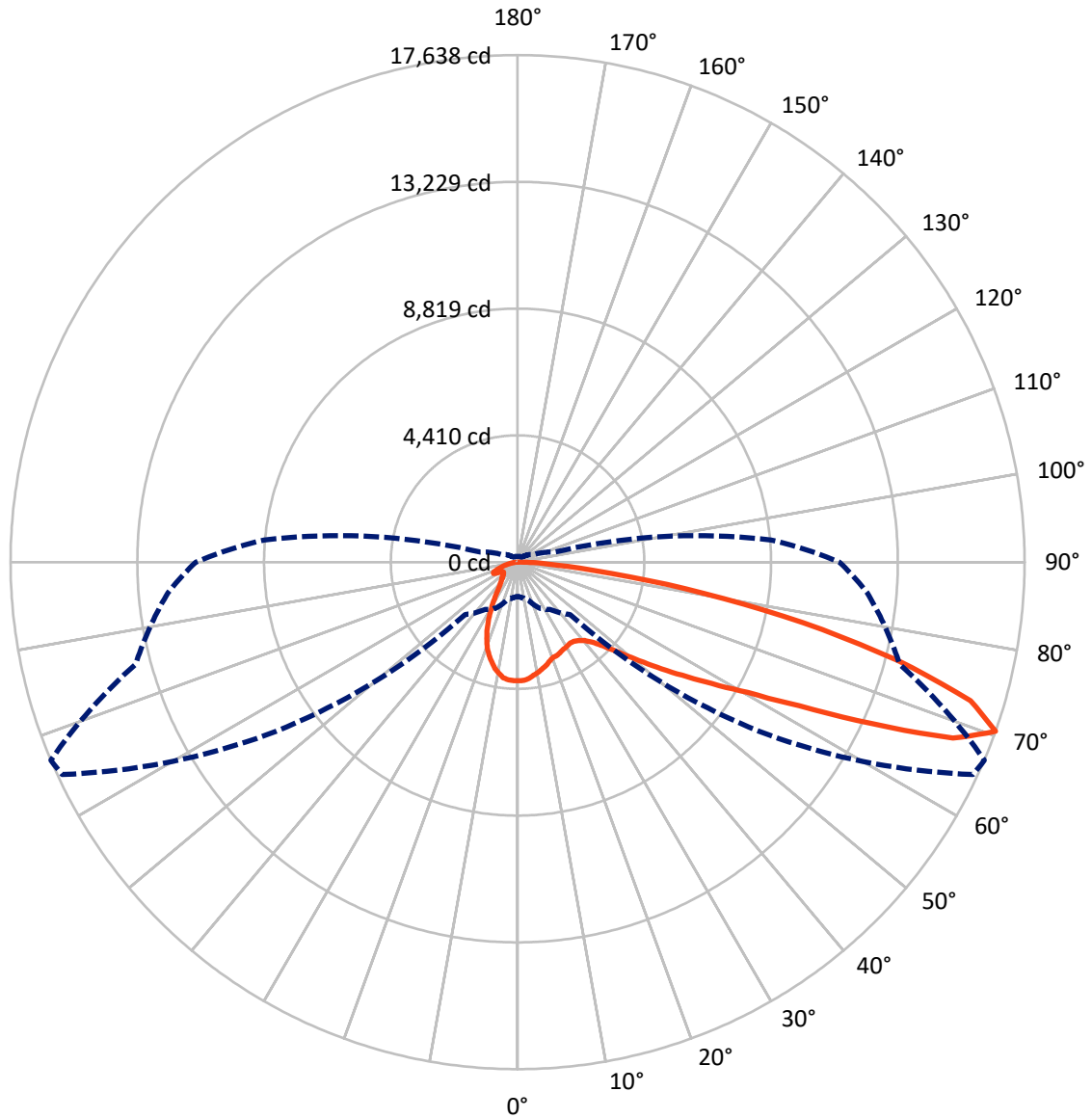
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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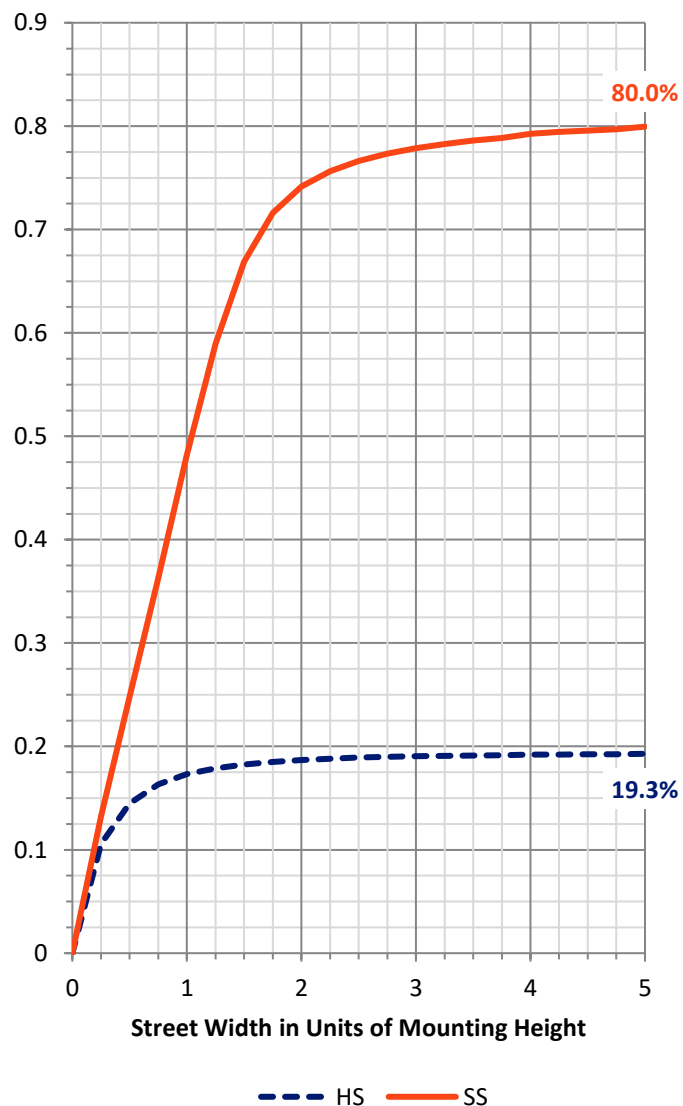
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3466.5	0.0	3466.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	14332.4	0.0	14332.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	17798.9	0.0	17798.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.5	2.0
10°-20°	861.0	4.8
20°-30°	1162.7	6.5
30°-40°	1555.9	8.7
40°-50°	2287.9	12.9
50°-60°	3566.2	20.0
60°-70°	4392.9	24.7
70°-80°	3104.0	17.4
80°-90°	508.8	2.9
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°	17798.9	100.0
0°-180°	17798.9	100.0

Coefficient of Utilization



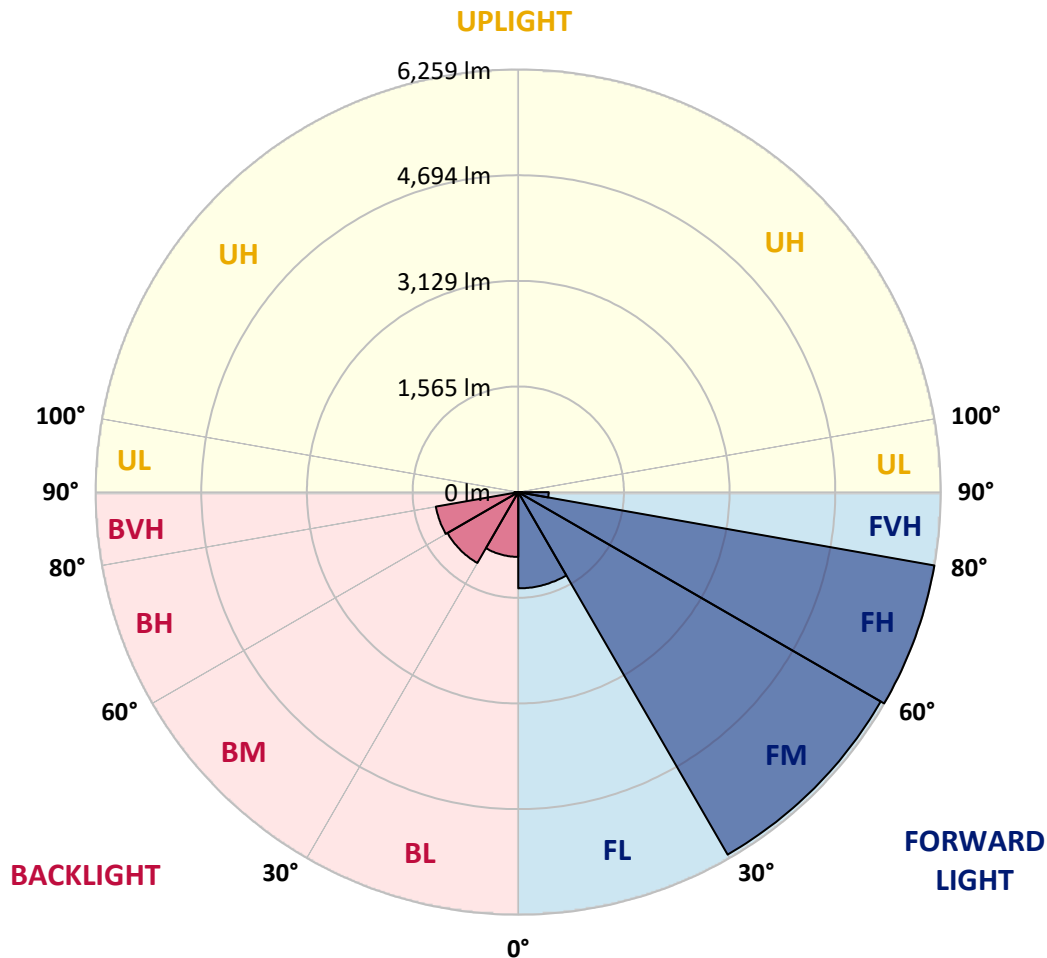
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1424.7	8.0			
FM (30°-60°)	6199.0	34.8			
FH (60°-80°)	6258.7	35.2			G3/7500
FVH (80°-90°)	450.1	2.5			G3/500
BL (0°-30°)	958.6	5.4	B2/1000		
BM (30°-60°)	1210.9	6.8	B2/2500		
BH (60°-80°)	1238.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	58.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4
2.5°	3836.6	3880.0	3895.7	3919.4	3980.5	4025.8	4053.4	4084.9	4122.4	4153.9	4173.6
5°	3568.6	3592.3	3629.7	3655.3	3732.2	3854.4	3937.1	4071.1	4067.2	4116.4	4191.3
7.5°	3308.5	3332.2	3349.9	3401.1	3511.5	3621.8	3773.6	3990.3	3974.6	4088.9	4205.1
10°	3146.9	3129.2	3135.1	3221.8	3308.5	3432.7	3623.8	3844.5	3901.7	4079.0	4244.5
12.5°	2995.2	2975.5	3022.8	3078.0	3184.4	3296.7	3525.3	3724.3	3811.0	4043.5	4262.3
15°	2900.6	2886.8	2945.9	2969.6	3095.7	3229.7	3391.3	3633.7	3728.2	4000.2	4234.7
17.5°	2847.4	2859.2	2880.9	2932.2	3012.9	3127.2	3304.6	3572.6	3614.0	3947.0	4228.8
20°	2857.3	2871.1	2873.0	2894.7	2949.9	3038.6	3219.9	3507.5	3535.1	3937.1	4244.5
22.5°	2936.1	2916.4	2924.3	2910.5	2926.2	2995.2	3154.8	3420.8	3527.3	3854.4	4211.0
25°	3054.3	3026.7	3022.8	2975.5	2945.9	2965.7	3143.0	3399.2	3468.1	3828.7	4209.1
27.5°	3263.2	3221.8	3221.8	3150.9	3030.7	2999.2	3109.5	3363.7	3424.8	3805.1	4163.7
30°	3464.2	3464.2	3466.2	3365.7	3231.7	3076.0	3123.3	3349.9	3389.3	3734.2	4102.7
32.5°	3708.5	3702.6	3692.8	3643.5	3436.6	3204.1	3190.3	3332.2	3351.9	3710.5	4084.9
35°	3947.0	3931.2	4008.1	3964.7	3753.9	3454.3	3259.3	3340.1	3383.4	3675.0	4029.7
37.5°	4126.3	4136.1	4295.8	4323.4	4142.1	3738.1	3454.3	3418.9	3460.3	3726.3	4029.7
40°	4358.8	4398.2	4548.0	4640.6	4530.3	4112.5	3763.7	3550.9	3580.5	3840.6	4116.4
42.5°	4664.3	4697.8	4888.9	5009.1	4977.6	4589.4	4069.2	3826.8	3803.1	4031.7	4246.5
45°	5068.2	5074.1	5267.2	5432.8	5497.8	5087.9	4553.9	4175.6	4155.9	4360.8	4484.9
47.5°	5549.0	5543.1	5663.3	5840.7	6016.0	5683.0	5111.6	4705.6	4634.7	4831.7	4881.0
50°	6014.1	5988.5	6016.0	6242.6	6579.6	6427.9	5789.4	5353.9	5283.0	5391.4	5476.1
52.5°	6270.2	6301.8	6226.9	6526.4	7178.7	7308.7	6688.0	6128.4	6067.3	6120.5	6268.3
55°	6090.9	6155.9	6106.7	6390.4	7440.7	8382.6	7850.6	7025.0	6946.1	6926.4	7168.8
57.5°	5328.3	5446.6	5456.4	5905.7	7350.1	9214.2	9486.1	8083.1	7964.9	7763.9	8014.2
60°	4090.8	4209.1	4299.7	4831.7	6573.7	9710.8	11381.8	9588.6	9198.4	8678.2	8828.0
62.5°	2867.1	2947.9	3038.6	3365.7	5068.2	9419.1	13021.3	11708.9	10989.7	9641.8	9829.0
65°	2088.8	2151.8	2244.4	2437.5	3113.4	7793.5	13781.9	14227.3	13545.4	10867.5	10843.8
67.5°	1572.5	1611.9	1734.1	2043.4	2157.7	4814.0	12993.7	16887.5	16335.7	12229.1	11659.6
70°	1190.2	1223.7	1338.0	1761.7	2015.9	2581.4	10250.7	17480.6	17638.2	13756.3	12207.5
72.5°	819.7	857.2	985.3	1468.0	1919.3	2047.4	6433.8	15880.5	16477.6	14384.9	11620.2
75°	502.5	528.1	603.0	1113.4	1905.5	2002.1	3541.0	13013.4	13645.9	13291.2	10166.0
77.5°	354.7	352.7	366.5	652.2	1651.3	2013.9	2183.4	9535.4	10150.2	9795.5	6898.8
80°	258.1	260.1	273.9	390.2	1121.2	2047.4	1720.3	6386.5	6569.8	5107.6	2721.3
82.5°	155.7	163.6	197.1	264.1	673.9	1848.4	1590.2	3548.9	3320.3	1639.5	748.8
85°	82.8	82.8	116.3	167.5	358.6	1379.4	1531.1	1688.7	1414.8	508.4	277.8
87.5°	19.7	19.7	33.5	67.0	143.8	660.1	1044.4	672.0	538.0	171.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4	4120.4
2.5°	4165.7	4142.1	4171.6	4112.5	4065.2	4067.2	3994.3	3990.3	3980.5	3929.2	3947.0
5°	4213.0	4193.3	4159.8	4094.8	3990.3	3885.9	3822.8	3742.0	3708.5	3690.8	3698.7
7.5°	4258.3	4222.9	4126.3	4035.7	3874.1	3677.0	3562.7	3454.3	3316.4	3300.6	3273.1
10°	4270.1	4195.3	4071.1	3878.0	3663.2	3444.5	3184.4	2983.4	2877.0	2794.2	2762.7
12.5°	4252.4	4220.9	3982.4	3734.2	3409.0	3066.1	2762.7	2478.9	2281.9	2179.4	2151.8
15°	4250.4	4195.3	3883.9	3515.4	3099.6	2652.3	2220.8	1879.9	1673.0	1588.2	1588.2
17.5°	4252.4	4120.4	3767.7	3294.7	2735.1	2130.1	1655.2	1375.4	1261.1	1249.3	1259.2
20°	4213.0	4065.2	3645.5	3034.6	2277.9	1600.1	1202.0	1087.7	1087.7	1103.5	1109.4
22.5°	4177.5	3982.4	3452.4	2713.4	1812.9	1158.7	977.4	943.9	981.3	1008.9	1020.7
25°	4128.3	3913.5	3255.3	2380.4	1379.4	934.0	849.3	857.2	892.7	941.9	938.0
27.5°	4057.3	3793.3	3020.8	1994.2	1026.6	805.9	784.3	788.2	825.7	847.3	843.4
30°	3976.5	3671.1	2804.1	1609.9	813.8	738.9	737.0	746.8	752.7	764.6	762.6
32.5°	3874.1	3509.5	2573.5	1251.3	733.0	701.5	693.6	687.7	693.6	691.7	685.7
35°	3801.2	3422.8	2339.0	953.7	687.7	668.0	662.1	652.2	644.4	632.5	630.6
37.5°	3781.5	3336.1	2092.7	778.4	652.2	642.4	622.7	605.0	595.1	589.2	585.2
40°	3769.6	3279.0	1852.3	683.8	622.7	612.8	589.2	565.5	555.7	549.8	551.7
42.5°	3811.0	3247.4	1608.0	636.5	597.1	579.3	553.7	526.1	524.2	520.2	526.1
45°	3956.8	3286.8	1381.3	603.0	571.5	541.9	508.4	494.6	492.6	488.7	492.6
47.5°	4287.9	3385.4	1188.2	581.3	543.9	518.3	482.8	463.1	461.1	459.1	459.1
50°	4745.0	3688.8	1026.6	555.7	526.1	490.7	457.2	435.5	431.5	423.7	423.7
52.5°	5462.3	4199.2	930.1	541.9	494.6	465.0	429.6	405.9	396.1	388.2	388.2
55°	6270.2	4831.7	912.4	518.3	461.1	433.5	402.0	378.3	368.5	358.6	354.7
57.5°	7190.5	5669.2	1038.5	502.5	437.5	402.0	366.5	344.8	337.0	327.1	323.2
60°	8047.7	6504.7	1430.6	478.8	415.8	372.4	337.0	315.3	305.4	295.6	295.6
62.5°	9038.8	7539.3	2094.7	478.8	396.1	340.9	305.4	289.7	283.8	273.9	271.9
65°	10211.3	8609.3	2579.4	508.4	390.2	313.3	275.9	260.1	254.2	248.3	246.3
67.5°	11104.0	9224.1	2218.8	587.2	415.8	289.7	246.3	236.5	232.5	226.6	222.7
70°	11198.5	8849.7	1338.0	634.5	441.4	266.0	220.7	210.8	210.8	204.9	201.0
72.5°	10349.2	7852.6	900.5	565.5	400.0	238.4	195.1	187.2	183.3	179.3	177.3
75°	8660.5	6660.4	711.4	451.3	307.4	197.1	169.5	161.6	155.7	153.7	149.8
77.5°	5817.0	4329.3	526.1	352.7	226.6	159.6	141.9	134.0	128.1	126.1	120.2
80°	2234.6	1649.3	338.9	256.2	159.6	126.1	112.3	104.4	100.5	94.6	90.6
82.5°	658.2	534.0	189.2	157.6	102.5	86.7	80.8	74.9	69.0	63.1	61.1
85°	271.9	244.3	116.3	82.8	63.1	51.2	47.3	41.4	35.5	31.5	27.6
87.5°	126.1	104.4	53.2	31.5	21.7	11.8	5.9	2.0	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)