

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: P480004

Luminaire Tested: **IFLD-S-SA6A-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480004
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

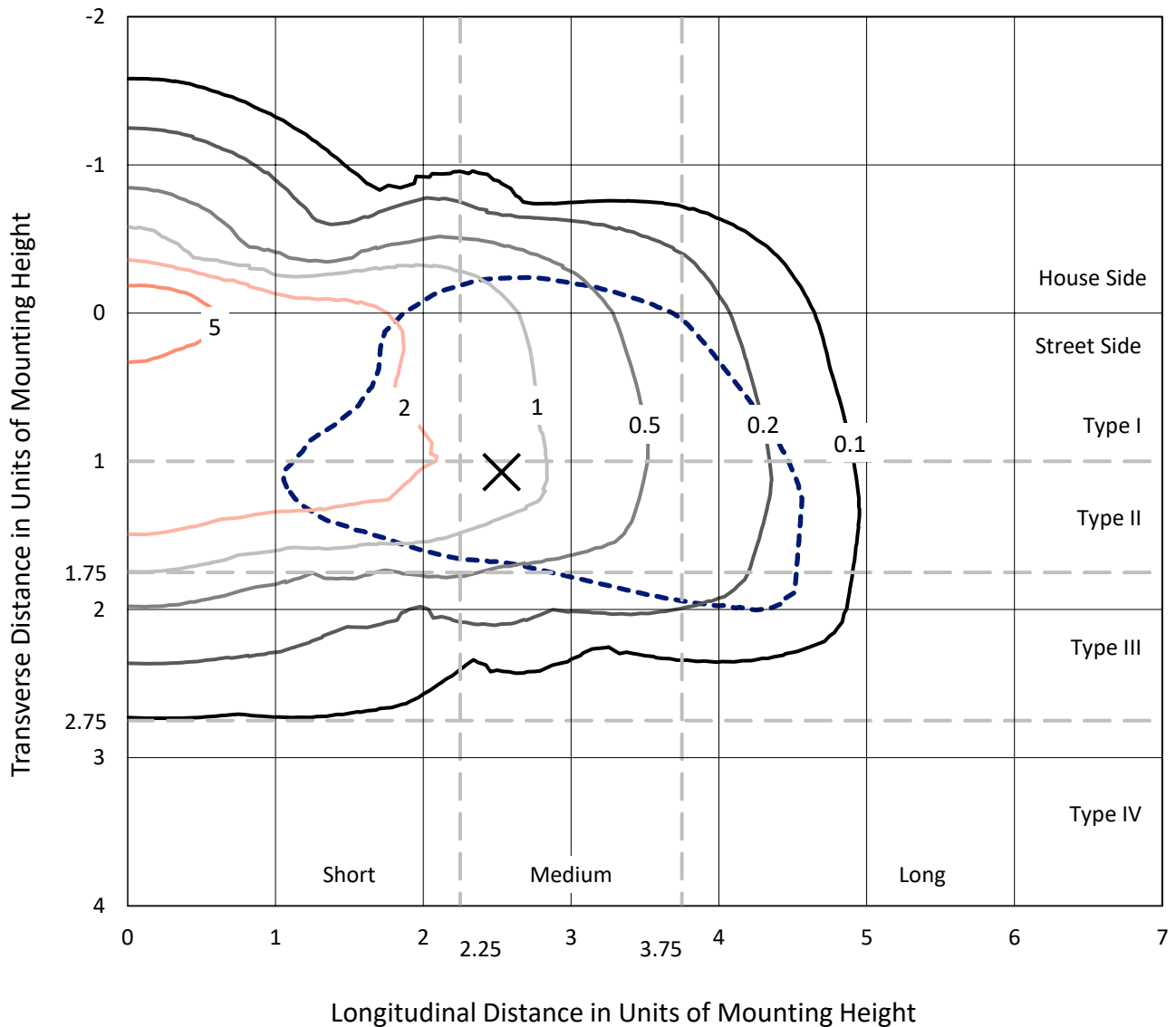
Lumens per Lamp: N/A
Luminaire Lumens: 22505.3 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

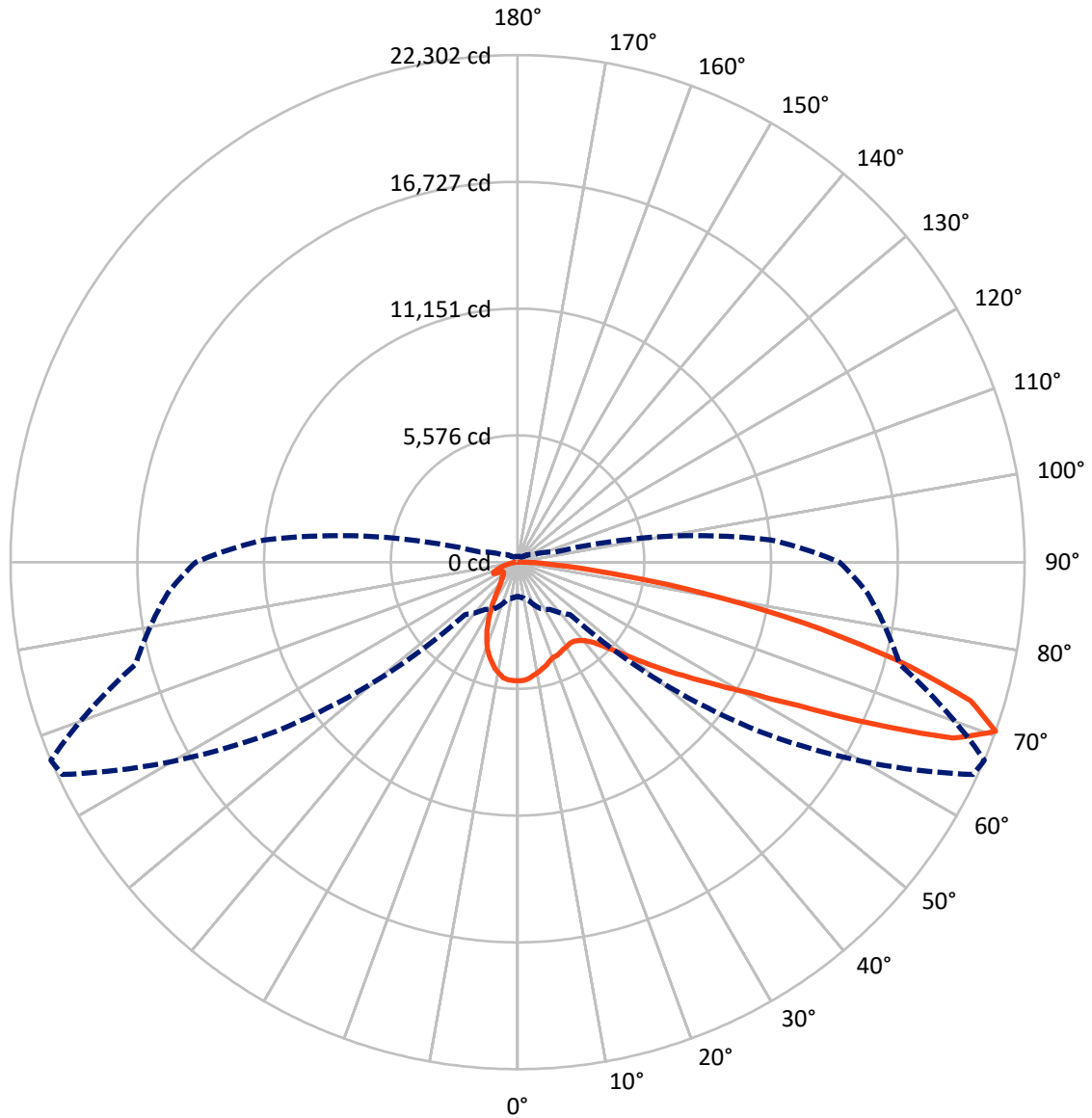
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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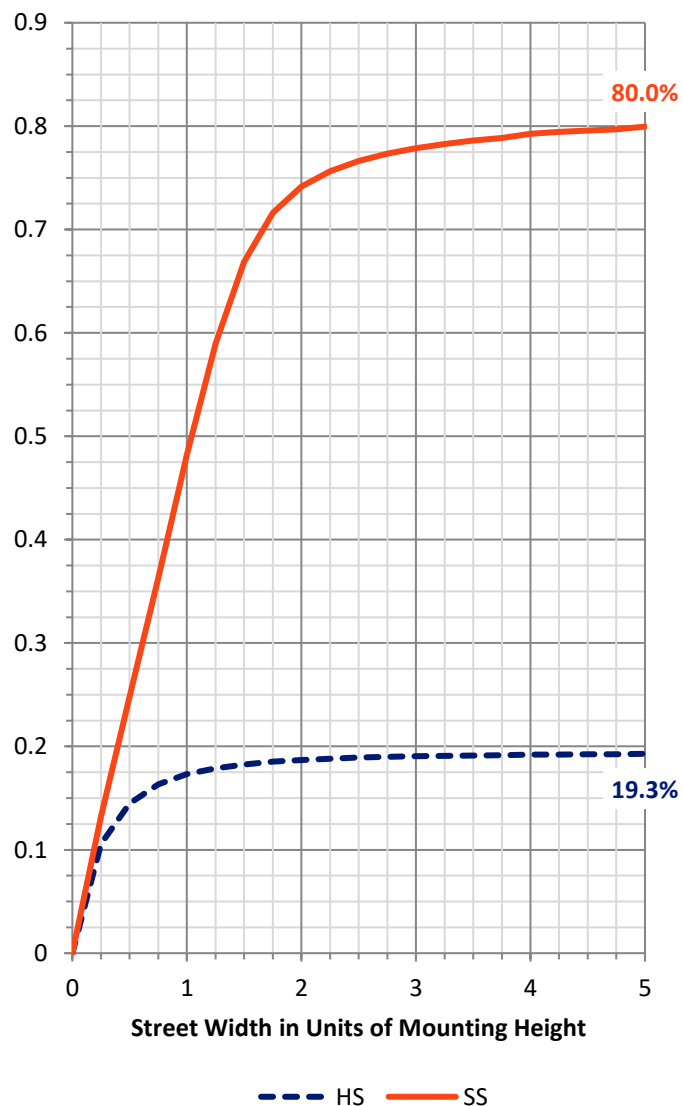
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4383.1	0.0	4383.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18122.2	0.0	18122.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	22505.3	0.0	22505.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.6	2.0
10°-20°	1088.7	4.8
20°-30°	1470.2	6.5
30°-40°	1967.3	8.7
40°-50°	2892.8	12.9
50°-60°	4509.2	20.0
60°-70°	5554.5	24.7
70°-80°	3924.8	17.4
80°-90°	643.3	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°	22505.3	100.0
0°-180°	22505.3	100.0

Coefficient of Utilization

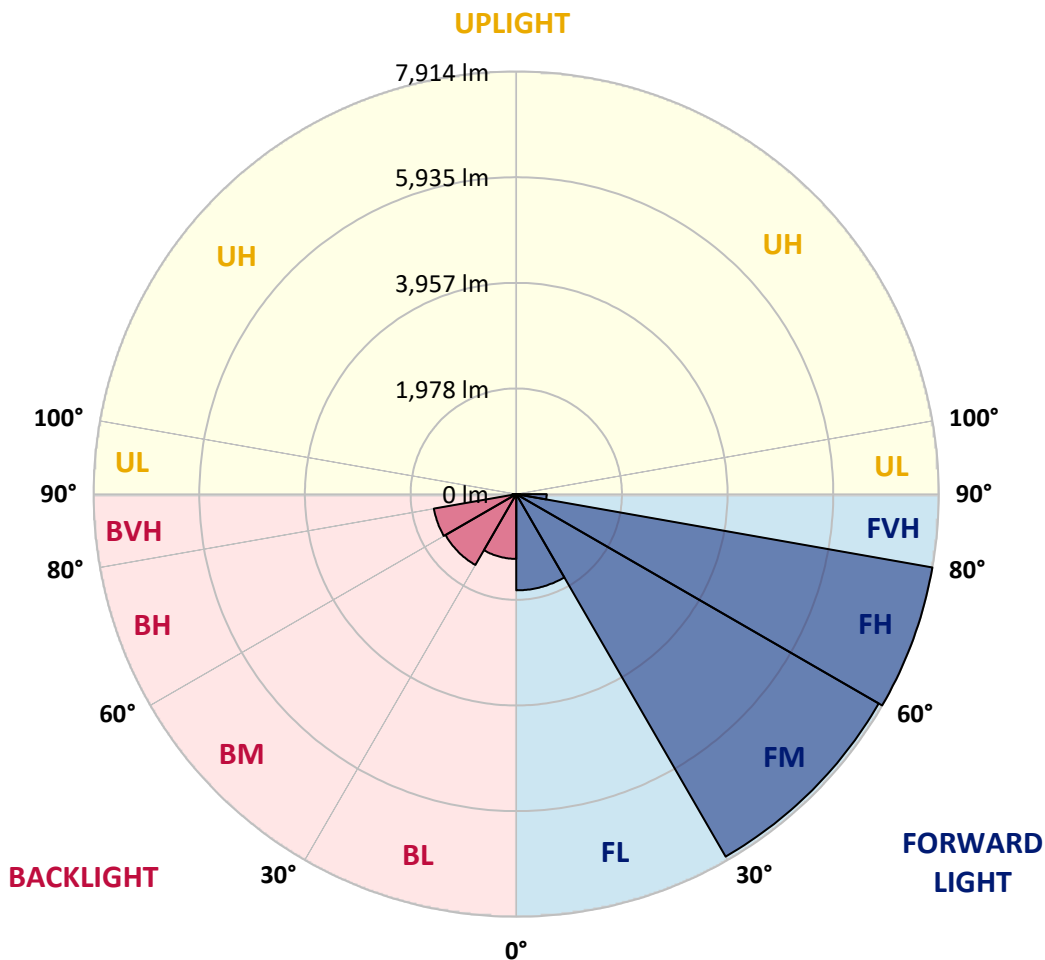


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.4	8.0			
FM (30°-60°)	7838.1	34.8			
FH (60°-80°)	7913.6	35.2			G4/12000
FVH (80°-90°)	569.1	2.5			G4/750
BL (0°-30°)	1212.1	5.4	B3/2500		
BM (30°-60°)	1531.1	6.8	B2/2500		
BH (60°-80°)	1565.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	74.2	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9
2.5°	4851.1	4905.9	4925.9	4955.8	5033.0	5090.3	5125.2	5165.1	5212.4	5252.3	5277.2
5°	4512.3	4542.2	4589.5	4621.9	4719.1	4873.5	4978.2	5147.6	5142.6	5204.9	5299.6
7.5°	4183.4	4213.3	4235.7	4300.5	4440.0	4579.5	4771.4	5045.5	5025.5	5170.0	5317.0
10°	3979.1	3956.6	3964.1	4073.7	4183.4	4340.3	4582.0	4861.1	4933.3	5157.6	5366.9
12.5°	3787.2	3762.3	3822.1	3891.9	4026.4	4168.4	4457.4	4709.1	4818.7	5112.7	5389.3
15°	3667.6	3650.2	3724.9	3754.8	3914.3	4083.7	4288.0	4594.5	4714.1	5057.9	5354.4
17.5°	3600.3	3615.3	3642.7	3707.5	3809.6	3954.1	4178.4	4517.2	4569.6	4990.6	5346.9
20°	3612.8	3630.2	3632.7	3660.1	3729.9	3842.0	4071.2	4435.0	4469.9	4978.2	5366.9
22.5°	3712.5	3687.5	3697.5	3680.1	3700.0	3787.2	3989.0	4325.4	4459.9	4873.5	5324.5
25°	3862.0	3827.1	3822.1	3762.3	3724.9	3749.8	3974.1	4298.0	4385.2	4841.1	5322.0
27.5°	4126.1	4073.7	4073.7	3984.0	3832.1	3792.2	3931.7	4253.1	4330.4	4811.2	5264.7
30°	4380.2	4380.2	4382.7	4255.6	4086.2	3889.4	3949.2	4235.7	4285.5	4721.6	5187.5
32.5°	4689.2	4681.7	4669.2	4606.9	4345.3	4051.3	4033.9	4213.3	4238.2	4691.7	5165.1
35°	4990.6	4970.7	5067.9	5013.1	4746.5	4367.7	4121.1	4223.2	4278.0	4646.8	5095.3
37.5°	5217.4	5229.8	5431.7	5466.5	5237.3	4726.5	4367.7	4322.9	4375.2	4711.6	5095.3
40°	5511.4	5561.2	5750.6	5867.7	5728.1	5199.9	4758.9	4489.8	4527.2	4856.1	5204.9
42.5°	5897.6	5939.9	6181.6	6333.6	6293.7	5802.9	5145.1	4838.7	4808.8	5097.8	5369.4
45°	6408.4	6415.8	6660.0	6869.3	6951.5	6433.3	5758.0	5279.7	5254.7	5513.9	5670.8
47.5°	7016.3	7008.8	7160.8	7385.1	7606.8	7185.7	6463.2	5949.9	5860.2	6109.4	6171.7
50°	7604.3	7571.9	7606.8	7893.3	8319.4	8127.5	7320.3	6769.6	6679.9	6817.0	6924.1
52.5°	7928.2	7968.1	7873.4	8252.1	9076.8	9241.3	8456.4	7748.8	7671.6	7738.9	7925.7
55°	7701.5	7783.7	7721.4	8080.2	9408.2	10599.2	9926.5	8882.5	8782.8	8757.9	9064.4
57.5°	6737.2	6886.7	6899.2	7467.3	9293.6	11650.6	11994.5	10220.5	10071.0	9816.8	10133.3
60°	5172.5	5322.0	5436.6	6109.4	8311.9	12278.5	14391.4	12124.0	11630.7	10972.9	11162.3
62.5°	3625.3	3727.4	3842.0	4255.6	6408.4	11909.8	16464.4	14805.0	13895.6	12191.3	12428.0
65°	2641.1	2720.8	2837.9	3082.1	3936.7	9854.2	17426.1	17989.2	17127.1	13741.1	13711.2
67.5°	1988.3	2038.1	2192.6	2583.8	2728.3	6086.9	16429.5	21352.9	20655.2	15462.8	14742.7
70°	1504.9	1547.3	1691.8	2227.5	2548.9	3264.0	12961.2	22102.8	22302.2	17393.7	15435.4
72.5°	1036.5	1083.8	1245.8	1856.2	2426.8	2588.8	8135.0	20079.7	20834.6	18188.6	14692.9
75°	635.4	667.7	762.4	1407.7	2409.4	2531.4	4477.4	16454.4	17254.2	16805.7	12854.1
77.5°	448.5	446.0	463.4	824.7	2087.9	2546.4	2760.7	12056.8	12834.1	12385.7	8723.0
80°	326.4	328.9	346.3	493.3	1417.7	2588.8	2175.2	8075.2	8306.9	6458.2	3440.9
82.5°	196.8	206.8	249.2	333.9	852.1	2337.1	2010.7	4487.3	4198.3	2073.0	946.8
85°	104.6	104.6	147.0	211.8	453.5	1744.1	1936.0	2135.3	1789.0	642.8	351.3
87.5°	24.9	24.9	42.4	84.7	181.9	834.7	1320.5	849.6	680.2	216.8	144.5
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°	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9	5209.9
2.5°	5267.2	5237.3	5274.7	5199.9	5140.1	5142.6	5050.4	5045.5	5033.0	4968.2	4990.6
5°	5327.0	5302.1	5259.7	5177.5	5045.5	4913.4	4833.7	4731.5	4689.2	4666.7	4676.7
7.5°	5384.3	5339.5	5217.4	5102.8	4898.5	4649.3	4504.8	4367.7	4193.3	4173.4	4138.5
10°	5399.3	5304.6	5147.6	4903.4	4631.9	4355.3	4026.4	3772.3	3637.7	3533.1	3493.2
12.5°	5376.8	5337.0	5035.5	4721.6	4310.4	3876.9	3493.2	3134.4	2885.3	2755.7	2720.8
15°	5374.3	5304.6	4910.9	4445.0	3919.3	3353.7	2808.0	2377.0	2115.4	2008.2	2008.2
17.5°	5376.8	5209.9	4763.9	4165.9	3458.3	2693.4	2092.9	1739.1	1594.6	1579.7	1592.1
20°	5327.0	5140.1	4609.4	3837.0	2880.3	2023.2	1519.9	1375.4	1375.4	1395.3	1402.8
22.5°	5282.2	5035.5	4365.3	3430.9	2292.3	1465.1	1235.8	1193.5	1240.8	1275.7	1290.6
25°	5219.9	4948.3	4116.1	3009.8	1744.1	1181.0	1073.9	1083.8	1128.7	1191.0	1186.0
27.5°	5130.2	4796.3	3819.6	2521.5	1298.1	1019.1	991.7	996.6	1044.0	1071.4	1066.4
30°	5028.0	4641.8	3545.5	2035.6	1029.0	934.3	931.9	944.3	951.8	966.7	964.2
32.5°	4898.5	4437.5	3254.0	1582.2	926.9	887.0	877.0	869.6	877.0	874.5	867.1
35°	4806.3	4327.9	2957.5	1205.9	869.6	844.6	837.2	824.7	814.7	799.8	797.3
37.5°	4781.3	4218.3	2646.1	984.2	824.7	812.3	787.3	764.9	752.5	745.0	740.0
40°	4766.4	4146.0	2342.1	864.6	787.3	774.9	745.0	715.1	702.6	695.2	697.6
42.5°	4818.7	4106.1	2033.1	804.8	754.9	732.5	700.1	665.3	662.8	657.8	665.3
45°	5003.1	4156.0	1746.6	762.4	722.6	685.2	642.8	625.4	622.9	617.9	622.9
47.5°	5421.7	4280.5	1502.4	735.0	687.7	655.3	610.4	585.5	583.0	580.5	580.5
50°	5999.7	4664.2	1298.1	702.6	665.3	620.4	578.0	550.6	545.7	535.7	535.7
52.5°	6906.7	5309.6	1176.0	685.2	625.4	588.0	543.2	513.3	500.8	490.8	490.8
55°	7928.2	6109.4	1153.6	655.3	583.0	548.1	508.3	478.4	465.9	453.5	448.5
57.5°	9091.8	7168.3	1313.1	635.4	553.1	508.3	463.4	436.0	426.1	413.6	408.6
60°	10175.6	8224.7	1808.9	605.5	525.7	470.9	426.1	398.7	386.2	373.7	373.7
62.5°	11428.9	9532.8	2648.6	605.5	500.8	431.0	386.2	366.3	358.8	346.3	343.8
65°	12911.4	10885.7	3261.5	642.8	493.3	396.2	348.8	328.9	321.4	313.9	311.4
67.5°	14040.1	11663.1	2805.5	742.5	525.7	366.3	311.4	299.0	294.0	286.5	281.5
70°	14159.7	11189.7	1691.8	802.3	558.1	336.4	279.1	266.6	266.6	259.1	254.1
72.5°	13085.8	9929.0	1138.7	715.1	505.8	301.5	246.7	236.7	231.7	226.7	224.2
75°	10950.5	8421.6	899.5	570.6	388.7	249.2	214.3	204.3	196.8	194.3	189.4
77.5°	7355.2	5474.0	665.3	446.0	286.5	201.8	179.4	169.4	162.0	159.5	152.0
80°	2825.5	2085.5	428.6	323.9	201.8	159.5	142.0	132.1	127.1	119.6	114.6
82.5°	832.2	675.2	239.2	199.3	129.6	109.6	102.2	94.7	87.2	79.7	77.2
85°	343.8	309.0	147.0	104.6	79.7	64.8	59.8	52.3	44.8	39.9	34.9
87.5°	159.5	132.1	67.3	39.9	27.4	14.9	7.5	2.5	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)