

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: P480227

Luminaire Tested: **IFLD-S-SA3E-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480227
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

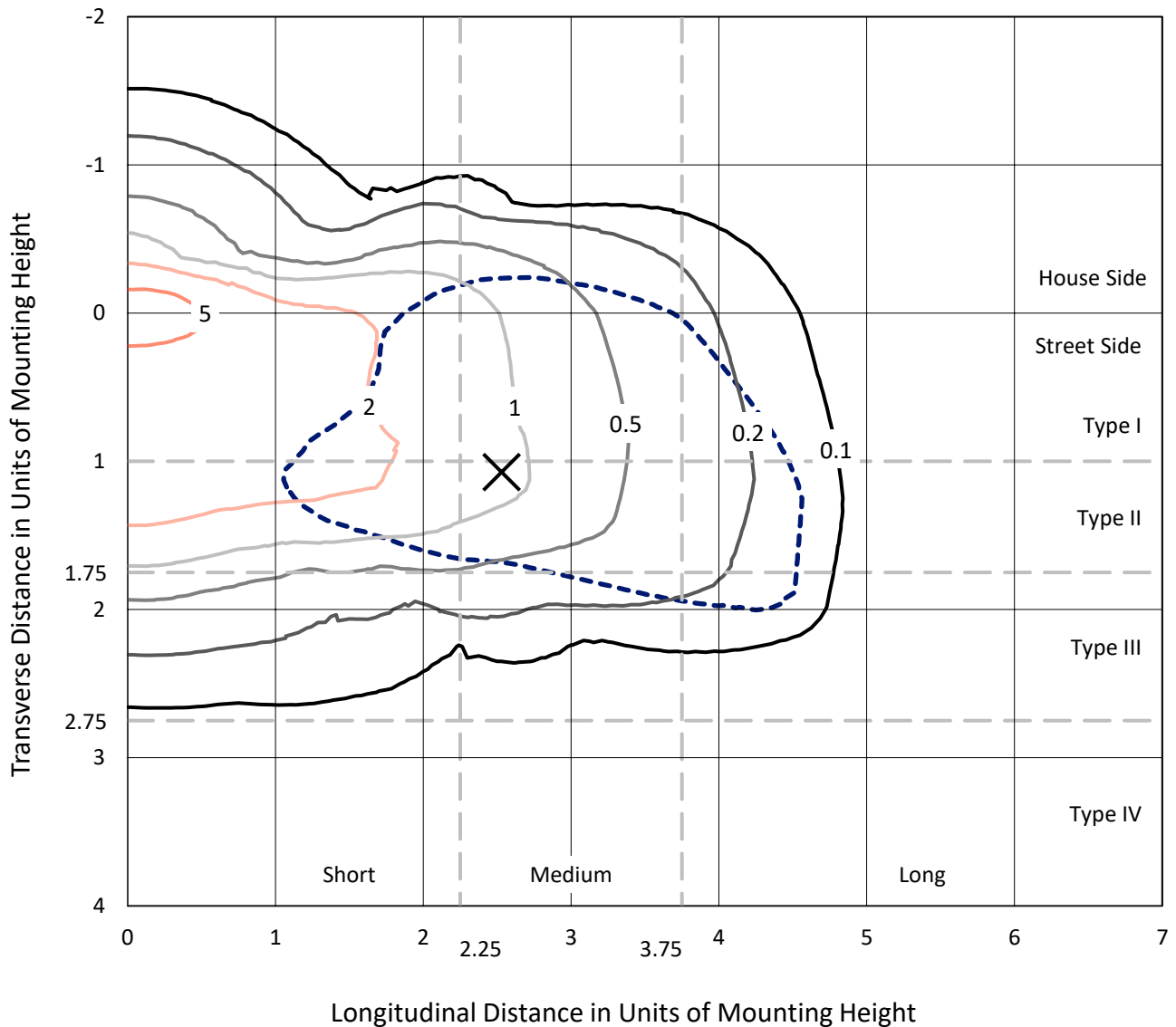
Lumens per Lamp: N/A
Luminaire Lumens: 19769.8 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 232.1
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

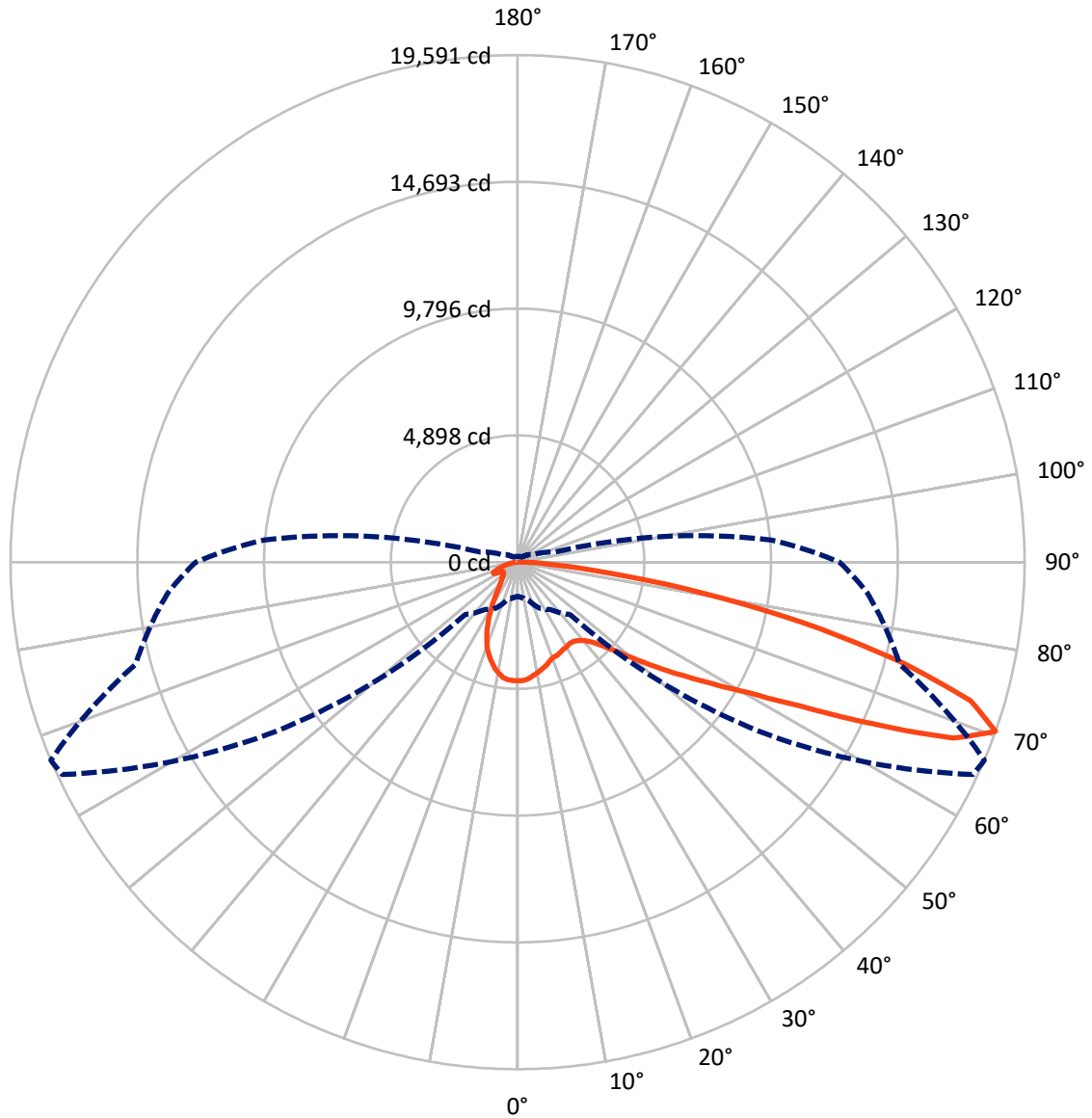
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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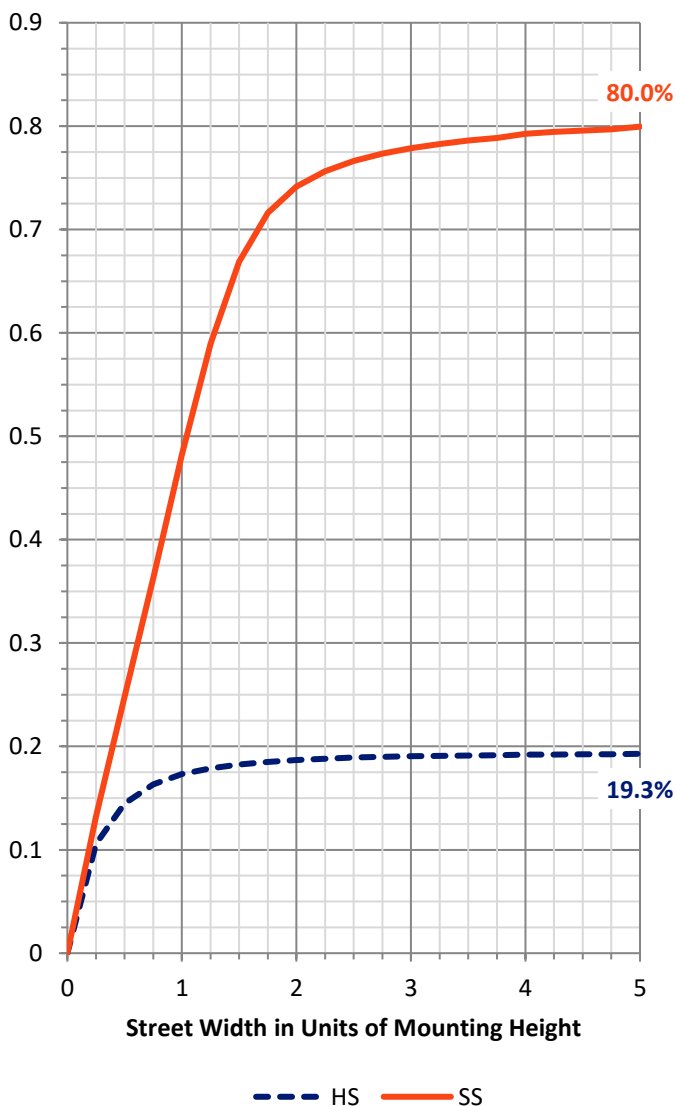
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3850.3	0.0	3850.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	15919.4	0.0	15919.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	19769.8	0.0	19769.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.3	2.0
10°-20°	956.4	4.8
20°-30°	1291.5	6.5
30°-40°	1728.1	8.7
40°-50°	2541.2	12.9
50°-60°	3961.1	20.0
60°-70°	4879.4	24.7
70°-80°	3447.7	17.4
80°-90°	565.1	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°	19769.8	100.0
0°-180°	19769.8	100.0

Coefficient of Utilization

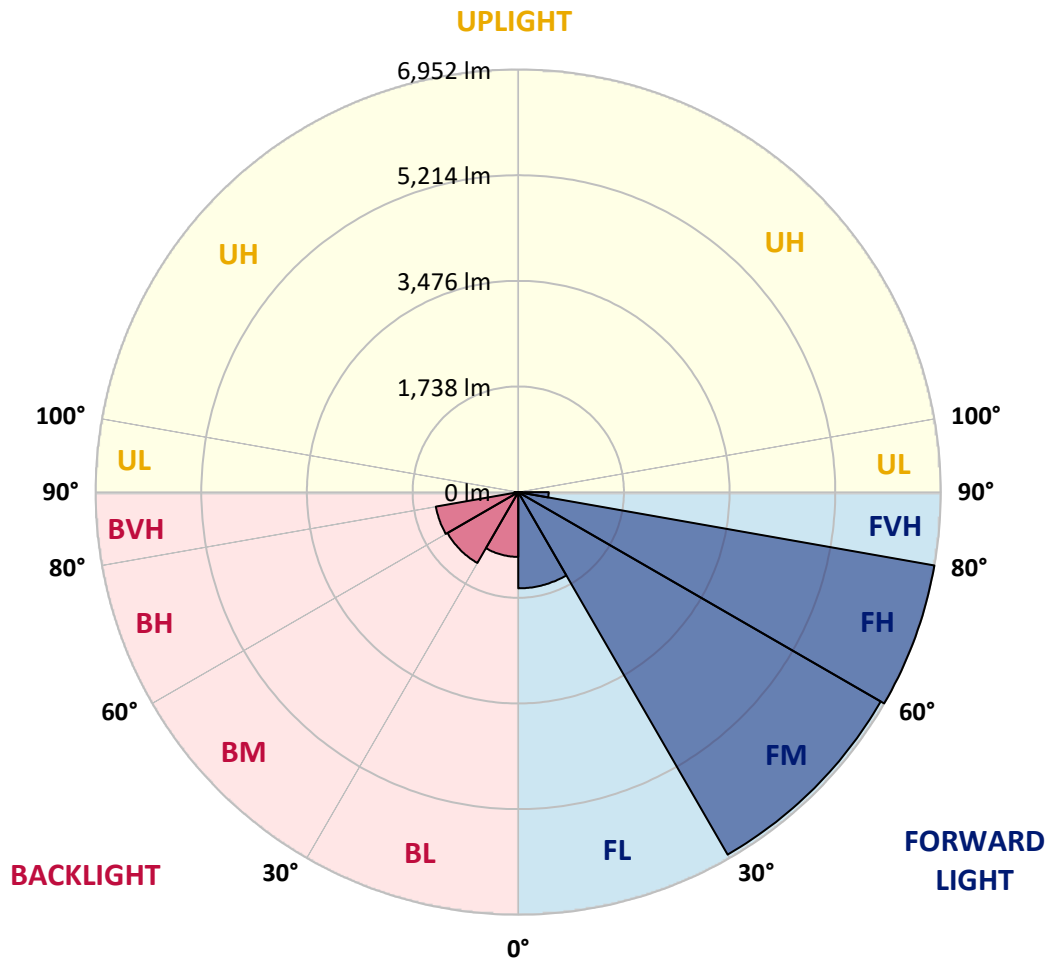


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1582.4	8.0			
FM (30°-60°)	6885.4	34.8			
FH (60°-80°)	6951.7	35.2			G3/7500
FVH (80°-90°)	499.9	2.5			G3/500
BL (0°-30°)	1064.8	5.4	B3/2500		
BM (30°-60°)	1345.0	6.8	B2/2500		
BH (60°-80°)	1375.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	65.2	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6
2.5°	4261.5	4309.6	4327.1	4353.4	4421.2	4471.6	4502.2	4537.2	4578.8	4613.8	4635.7
5°	3963.8	3990.1	4031.6	4060.1	4145.5	4281.2	4373.1	4521.9	4517.5	4572.3	4655.4
7.5°	3674.9	3701.1	3720.8	3777.8	3900.3	4022.9	4191.4	4432.2	4414.7	4541.6	4670.8
10°	3495.4	3475.7	3482.3	3578.6	3674.9	3812.8	4025.1	4270.2	4333.7	4530.7	4714.5
12.5°	3326.9	3305.0	3357.5	3418.8	3537.0	3661.7	3915.6	4136.7	4233.0	4491.3	4734.2
15°	3221.8	3206.5	3272.2	3298.4	3438.5	3587.3	3766.8	4036.0	4141.1	4443.1	4703.6
17.5°	3162.7	3175.9	3199.9	3256.8	3346.6	3473.5	3670.5	3968.2	4014.1	4384.0	4697.0
20°	3173.7	3189.0	3191.2	3215.2	3276.5	3375.0	3576.4	3895.9	3926.6	4373.1	4714.5
22.5°	3261.2	3239.3	3248.1	3232.8	3250.3	3326.9	3504.2	3799.6	3917.8	4281.2	4677.3
25°	3392.5	3361.9	3357.5	3305.0	3272.2	3294.0	3491.0	3775.6	3852.2	4252.7	4675.1
27.5°	3624.5	3578.6	3578.6	3499.8	3366.3	3331.3	3453.8	3736.2	3804.0	4226.4	4624.8
30°	3847.8	3847.8	3850.0	3738.4	3589.5	3416.6	3469.1	3720.8	3764.6	4147.6	4556.9
32.5°	4119.2	4112.6	4101.7	4047.0	3817.1	3558.9	3543.6	3701.1	3723.0	4121.4	4537.2
35°	4384.0	4366.5	4451.9	4403.7	4169.5	3836.8	3620.2	3709.9	3758.1	4082.0	4476.0
37.5°	4583.2	4594.1	4771.4	4802.1	4600.7	4152.0	3836.8	3797.5	3843.4	4138.9	4476.0
40°	4841.5	4885.3	5051.6	5154.5	5031.9	4567.9	4180.5	3944.1	3976.9	4265.8	4572.3
42.5°	5180.7	5217.9	5430.2	5563.8	5528.7	5097.6	4519.7	4250.5	4224.3	4478.1	4716.7
45°	5629.4	5636.0	5850.5	6034.3	6106.6	5651.3	5058.2	4637.9	4616.0	4843.7	4981.6
47.5°	6163.5	6156.9	6290.4	6487.4	6682.2	6312.3	5677.6	5226.7	5147.9	5366.8	5421.5
50°	6680.0	6651.6	6682.2	6933.9	7308.2	7139.6	6430.5	5946.8	5868.0	5988.4	6082.5
52.5°	6964.5	6999.6	6916.4	7249.1	7973.6	8118.0	7428.6	6807.0	6739.1	6798.2	6962.4
55°	6765.4	6837.6	6782.9	7098.1	8264.7	9310.9	8719.9	7802.8	7715.3	7693.4	7962.6
57.5°	5918.3	6049.7	6060.6	6559.6	8164.0	10234.5	10536.6	8978.2	8846.9	8623.6	8901.6
60°	4543.8	4675.1	4775.8	5366.8	7301.6	10786.1	12642.1	10650.4	10217.0	9639.2	9805.5
62.5°	3184.6	3274.3	3375.0	3738.4	5629.4	10462.1	14463.1	13005.4	12206.6	10709.5	10917.4
65°	2320.1	2390.1	2493.0	2707.5	3458.2	8656.4	15308.0	15802.6	15045.3	12070.9	12044.6
67.5°	1746.6	1790.4	1926.1	2269.7	2396.7	5347.1	14432.5	18757.4	18144.6	13583.3	12950.7
70°	1322.0	1359.2	1486.1	1956.7	2239.1	2867.2	11385.8	19416.2	19591.3	15279.5	13559.2
72.5°	910.5	952.1	1094.4	1630.6	2131.8	2274.1	7146.2	17639.0	18302.2	15977.7	12907.0
75°	558.1	586.6	669.8	1236.6	2116.5	2223.8	3933.2	14454.4	15157.0	14763.0	11291.7
77.5°	394.0	391.8	407.1	724.5	1834.2	2236.9	2425.1	10591.3	11274.2	10880.2	7662.8
80°	286.7	288.9	304.2	433.4	1245.4	2274.1	1910.8	7093.7	7297.2	5673.2	3022.6
82.5°	172.9	181.7	218.9	293.3	748.5	2053.0	1766.3	3941.9	3688.0	1821.0	831.7
85°	91.9	91.9	129.1	186.0	398.3	1532.1	1700.6	1875.7	1571.5	564.7	308.6
87.5°	21.9	21.9	37.2	74.4	159.8	733.2	1160.0	746.4	597.5	190.4	126.9
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°	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6	4576.6
2.5°	4627.0	4600.7	4633.5	4567.9	4515.4	4517.5	4436.6	4432.2	4421.2	4364.3	4384.0
5°	4679.5	4657.6	4620.4	4548.2	4432.2	4316.2	4246.1	4156.4	4119.2	4099.5	4108.3
7.5°	4729.9	4690.5	4583.2	4482.5	4303.0	4084.2	3957.2	3836.8	3683.6	3666.1	3635.5
10°	4743.0	4659.8	4521.9	4307.4	4068.9	3825.9	3537.0	3313.7	3195.5	3103.6	3068.6
12.5°	4723.3	4688.3	4423.4	4147.6	3786.5	3405.7	3068.6	2753.4	2534.6	2420.7	2390.1
15°	4721.1	4659.8	4314.0	3904.7	3442.9	2946.0	2466.7	2088.1	1858.2	1764.1	1764.1
17.5°	4723.3	4576.6	4184.9	3659.6	3038.0	2366.0	1838.5	1527.7	1400.8	1387.7	1398.6
20°	4679.5	4515.4	4049.2	3370.6	2530.2	1777.3	1335.1	1208.2	1208.2	1225.7	1232.3
22.5°	4640.1	4423.4	3834.7	3013.9	2013.6	1287.0	1085.6	1048.4	1090.0	1120.6	1133.8
25°	4585.4	4346.8	3615.8	2644.0	1532.1	1037.5	943.3	952.1	991.5	1046.2	1041.8
27.5°	4506.6	4213.3	3355.3	2215.0	1140.3	895.2	871.1	875.5	917.1	941.2	936.8
30°	4416.9	4077.6	3114.6	1788.2	903.9	820.8	818.6	829.5	836.1	849.2	847.0
32.5°	4303.0	3898.1	2858.5	1389.8	814.2	779.2	770.4	763.9	770.4	768.2	761.7
35°	4222.1	3801.8	2598.0	1059.3	763.9	742.0	735.4	724.5	715.7	702.6	700.4
37.5°	4200.2	3705.5	2324.4	864.5	724.5	713.5	691.6	671.9	661.0	654.4	650.1
40°	4187.0	3642.1	2057.4	759.5	691.6	680.7	654.4	628.2	617.2	610.7	612.8
42.5°	4233.0	3607.0	1786.0	707.0	663.2	643.5	615.0	584.4	582.2	577.8	584.4
45°	4395.0	3650.8	1534.3	669.8	634.7	601.9	564.7	549.4	547.2	542.8	547.2
47.5°	4762.7	3760.2	1319.8	645.7	604.1	575.6	536.2	514.4	512.2	510.0	510.0
50°	5270.5	4097.3	1140.3	617.2	584.4	545.0	507.8	483.7	479.3	470.6	470.6
52.5°	6067.2	4664.2	1033.1	601.9	549.4	516.5	477.1	450.9	439.9	431.2	431.2
55°	6964.5	5366.8	1013.4	575.6	512.2	481.5	446.5	420.2	409.3	398.3	394.0
57.5°	7986.7	6297.0	1153.5	558.1	485.9	446.5	407.1	383.0	374.3	363.3	359.0
60°	8938.8	7225.0	1589.0	531.9	461.8	413.7	374.3	350.2	339.3	328.3	328.3
62.5°	10039.7	8374.1	2326.6	531.9	439.9	378.7	339.3	321.7	315.2	304.2	302.0
65°	11342.0	9562.6	2865.1	564.7	433.4	348.0	306.4	288.9	282.3	275.8	273.6
67.5°	12333.5	10245.5	2464.5	652.2	461.8	321.7	273.6	262.6	258.3	251.7	247.3
70°	12438.6	9829.6	1486.1	704.8	490.3	295.5	245.1	234.2	234.2	227.6	223.3
72.5°	11495.2	8722.1	1000.3	628.2	444.3	264.8	216.7	207.9	203.6	199.2	197.0
75°	9619.5	7397.9	790.1	501.2	341.4	218.9	188.2	179.5	172.9	170.7	166.3
77.5°	6461.1	4808.6	584.4	391.8	251.7	177.3	157.6	148.8	142.3	140.1	133.5
80°	2482.0	1832.0	376.5	284.5	177.3	140.1	124.8	116.0	111.6	105.1	100.7
82.5°	731.0	593.1	210.1	175.1	113.8	96.3	89.7	83.2	76.6	70.0	67.9
85°	302.0	271.4	129.1	91.9	70.0	56.9	52.5	46.0	39.4	35.0	30.6
87.5°	140.1	116.0	59.1	35.0	24.1	13.1	6.6	2.2	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)