

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: P479992

Luminaire Tested: **IFLD-S-SA3D-727-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479992  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-727-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

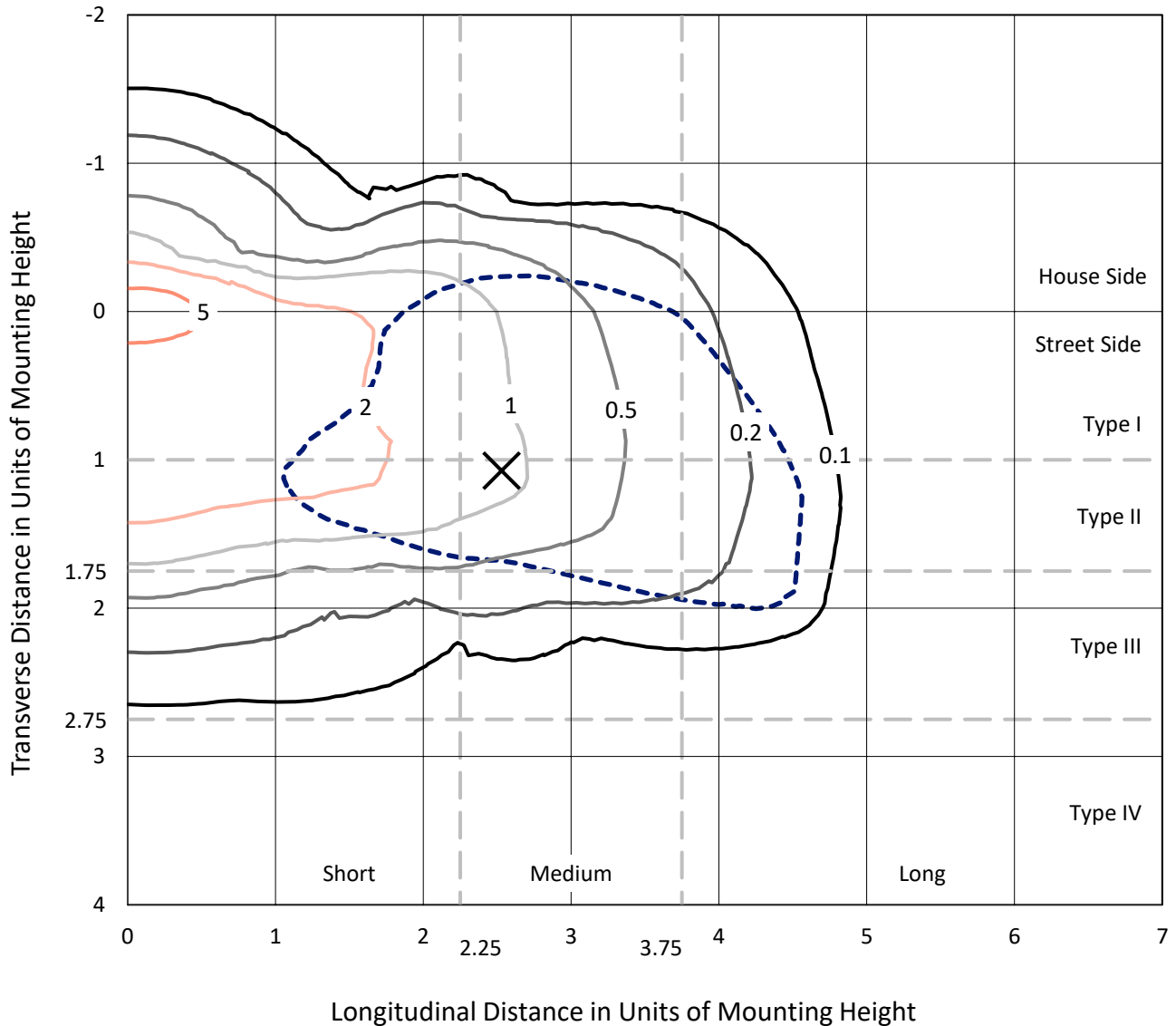
Lumens per Lamp: N/A  
Luminaire Lumens: 19434.3 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1  
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

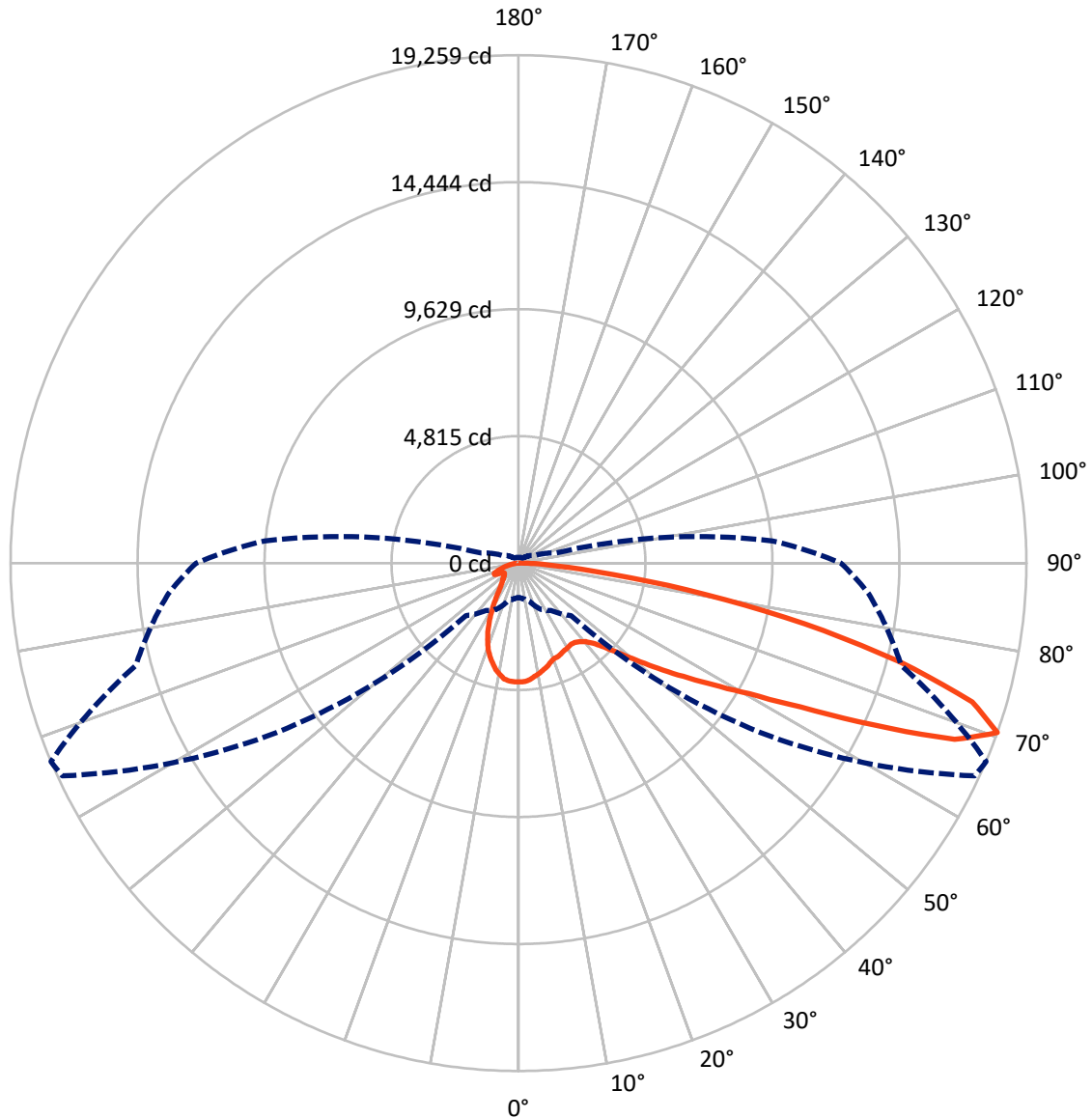
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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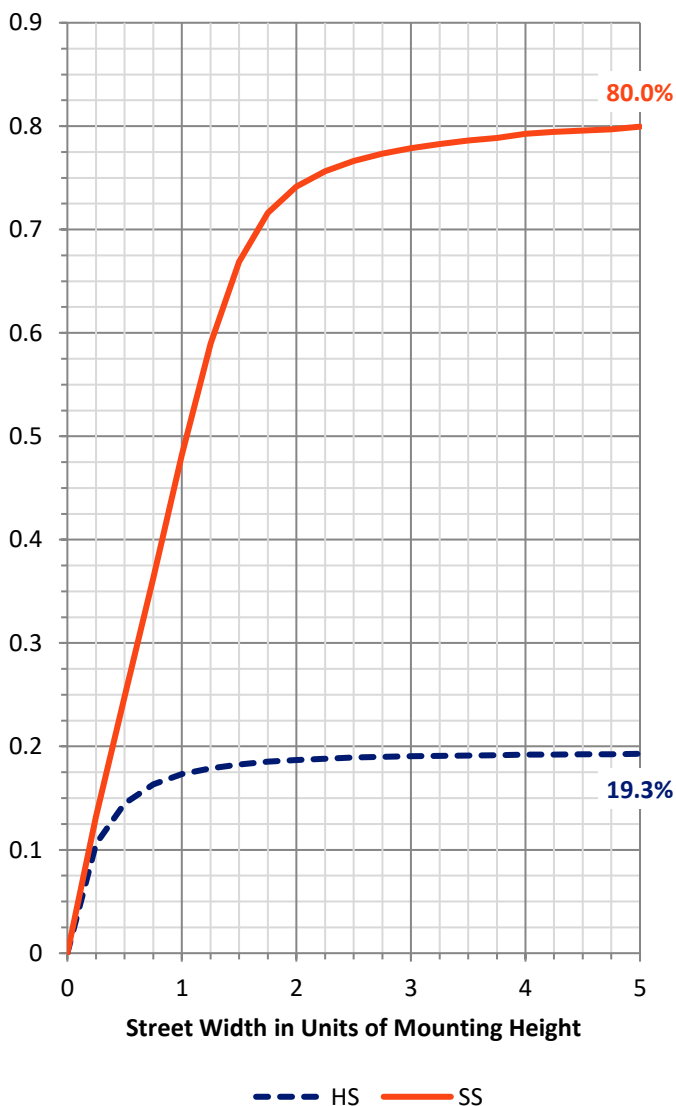
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3785.0	0.0	3785.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	15649.3	0.0	15649.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	19434.3	0.0	19434.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.5	2.0
10°-20°	940.1	4.8
20°-30°	1269.6	6.5
30°-40°	1698.8	8.7
40°-50°	2498.1	12.9
50°-60°	3893.9	20.0
60°-70°	4796.6	24.7
70°-80°	3389.2	17.4
80°-90°	555.5	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°	19434.3	100.0
0°-180°	19434.3	100.0

**Coefficient of Utilization**

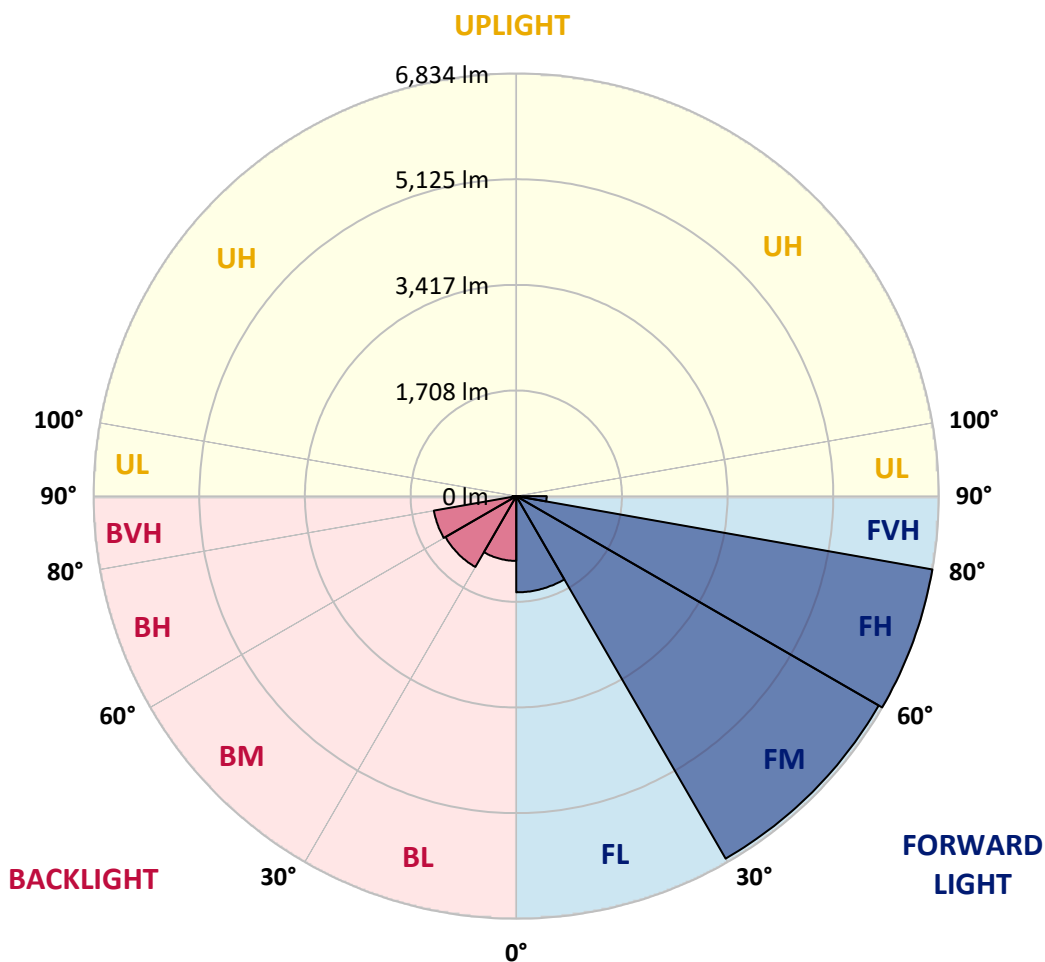


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.6	8.0			
FM (30°-60°)	6768.5	34.8			
FH (60°-80°)	6833.7	35.2			G3/7500
FVH (80°-90°)	491.4	2.5			G3/500
BL (0°-30°)	1046.7	5.4	B3/2500		
BM (30°-60°)	1322.2	6.8	B2/2500		
BH (60°-80°)	1352.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	64.1	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°	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0
2.5°	4189.2	4236.5	4253.7	4279.5	4346.2	4395.7	4425.8	4460.3	4501.1	4535.6	4557.1
5°	3896.5	3922.4	3963.2	3991.2	4075.1	4208.5	4298.9	4445.2	4440.9	4494.7	4576.4
7.5°	3612.5	3638.3	3657.7	3713.6	3834.1	3954.6	4120.3	4357.0	4339.8	4464.6	4591.5
10°	3436.1	3416.7	3423.2	3517.9	3612.5	3748.1	3956.8	4197.8	4260.2	4453.8	4634.5
12.5°	3270.4	3248.9	3300.5	3360.8	3477.0	3599.6	3849.2	4066.5	4161.2	4415.1	4653.9
15°	3167.1	3152.1	3216.6	3242.4	3380.2	3526.5	3702.9	3967.5	4070.8	4367.7	4623.8
17.5°	3109.1	3122.0	3145.6	3201.6	3289.8	3414.6	3608.2	3900.8	3946.0	4309.6	4617.3
20°	3119.8	3134.9	3137.0	3160.7	3220.9	3317.8	3515.7	3829.8	3860.0	4298.9	4634.5
22.5°	3205.9	3184.4	3193.0	3177.9	3195.1	3270.4	3444.7	3735.2	3851.4	4208.5	4598.0
25°	3335.0	3304.8	3300.5	3248.9	3216.6	3238.1	3431.8	3711.5	3786.8	4180.5	4595.8
27.5°	3563.0	3517.9	3517.9	3440.4	3309.1	3274.7	3395.2	3672.8	3739.5	4154.7	4546.3
30°	3782.5	3782.5	3784.7	3674.9	3528.6	3358.6	3410.3	3657.7	3700.7	4077.3	4479.6
32.5°	4049.3	4042.8	4032.1	3978.3	3752.4	3498.5	3483.4	3638.3	3659.9	4051.4	4460.3
35°	4309.6	4292.4	4376.3	4329.0	4098.8	3771.7	3558.7	3646.9	3694.3	4012.7	4400.0
37.5°	4505.4	4516.2	4690.5	4720.6	4522.6	4081.6	3771.7	3733.0	3778.2	4068.7	4400.0
40°	4759.3	4802.4	4965.9	5067.0	4946.5	4490.4	4109.5	3877.2	3909.4	4193.5	4494.7
42.5°	5092.8	5129.4	5338.1	5469.3	5434.9	5011.1	4443.0	4178.4	4152.6	4402.2	4636.7
45°	5533.9	5540.4	5751.2	5931.9	6002.9	5555.4	4972.3	4559.2	4537.7	4761.5	4897.0
47.5°	6058.9	6052.4	6183.7	6377.3	6568.8	6205.2	5581.2	5138.0	5060.5	5275.7	5329.5
50°	6566.7	6538.7	6568.8	6816.2	7184.2	7018.5	6321.4	5845.9	5768.4	5886.8	5979.3
52.5°	6846.4	6880.8	6799.0	7126.1	7838.3	7980.3	7302.5	6691.5	6624.8	6682.8	6844.2
55°	6650.6	6721.6	6667.8	6977.6	8124.4	9152.9	8571.9	7670.4	7584.4	7562.8	7827.5
57.5°	5817.9	5947.0	5957.8	6448.3	8025.4	10060.8	10357.8	8825.8	8696.7	8477.3	8750.5
60°	4466.7	4595.8	4694.8	5275.7	7177.7	10603.0	12427.6	10469.6	10043.6	9475.6	9639.1
62.5°	3130.6	3218.8	3317.8	3674.9	5533.9	10284.6	14217.7	12784.8	11999.4	10527.7	10732.1
65°	2280.7	2349.5	2450.7	2661.5	3399.5	8509.5	15048.2	15534.5	14790.0	11866.0	11840.2
67.5°	1717.0	1760.0	1893.4	2231.2	2356.0	5256.3	14187.6	18439.1	17836.7	13352.8	12731.0
70°	1299.6	1336.1	1460.9	1923.5	2201.1	2818.6	11192.6	19086.8	19258.9	15020.3	13329.1
72.5°	895.1	935.9	1075.8	1602.9	2095.7	2235.5	7024.9	17339.7	17991.6	15706.6	12687.9
75°	548.7	576.6	658.4	1215.6	2080.6	2186.0	3866.4	14209.1	14899.8	14512.5	11100.1
77.5°	387.3	385.1	400.2	712.2	1803.0	2198.9	2384.0	10411.6	11082.9	10695.6	7532.7
80°	281.9	284.0	299.1	426.0	1224.3	2235.5	1878.3	6973.3	7173.4	5576.9	2971.3
82.5°	170.0	178.6	215.2	288.3	735.8	2018.2	1736.3	3875.0	3625.4	1790.1	817.6
85°	90.4	90.4	126.9	182.9	391.6	1506.1	1671.8	1843.9	1544.8	555.1	303.4
87.5°	21.5	21.5	36.6	73.2	157.1	720.8	1140.3	733.7	587.4	187.2	124.8
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°	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0	4499.0
2.5°	4548.5	4522.6	4554.9	4490.4	4438.7	4440.9	4361.3	4357.0	4346.2	4290.3	4309.6
5°	4600.1	4578.6	4542.0	4471.0	4357.0	4242.9	4174.1	4085.9	4049.3	4029.9	4038.5
7.5°	4649.6	4610.9	4505.4	4406.5	4230.0	4014.9	3890.1	3771.7	3621.1	3603.9	3573.8
10°	4662.5	4580.7	4445.2	4234.3	3999.8	3761.0	3477.0	3257.5	3141.3	3051.0	3016.5
12.5°	4643.1	4608.7	4348.4	4077.3	3722.3	3347.9	3016.5	2706.7	2491.5	2379.7	2349.5
15°	4641.0	4580.7	4240.8	3838.4	3384.5	2896.0	2424.8	2052.6	1826.7	1734.2	1734.2
17.5°	4643.1	4499.0	4113.8	3597.5	2986.4	2325.9	1807.3	1501.8	1377.0	1364.1	1374.9
20°	4600.1	4438.7	3980.4	3313.5	2487.2	1747.1	1312.5	1187.7	1187.7	1204.9	1211.3
22.5°	4561.4	4348.4	3769.6	2962.7	1979.5	1265.1	1067.2	1030.6	1071.5	1101.6	1114.5
25°	4507.6	4273.1	3554.4	2599.1	1506.1	1019.9	927.3	935.9	974.7	1028.5	1024.2
27.5°	4430.1	4141.8	3298.4	2177.4	1121.0	880.0	856.3	860.6	901.5	925.2	920.9
30°	4341.9	4008.4	3061.7	1757.9	888.6	806.8	804.7	815.5	821.9	834.8	832.7
32.5°	4230.0	3832.0	2810.0	1366.3	800.4	766.0	757.4	750.9	757.4	755.2	748.8
35°	4150.4	3737.3	2553.9	1041.4	750.9	729.4	722.9	712.2	703.6	690.7	688.5
37.5°	4128.9	3642.6	2285.0	849.9	712.2	701.4	679.9	660.5	649.8	643.3	639.0
40°	4116.0	3580.2	2022.5	746.6	679.9	669.1	643.3	617.5	606.7	600.3	602.4
42.5°	4161.2	3545.8	1755.7	695.0	651.9	632.6	604.6	574.5	572.3	568.0	574.5
45°	4320.4	3588.9	1508.3	658.4	624.0	591.7	555.1	540.0	537.9	533.6	537.9
47.5°	4681.9	3696.4	1297.4	634.7	593.8	565.9	527.1	505.6	503.5	501.3	501.3
50°	5181.0	4027.8	1121.0	606.7	574.5	535.7	499.2	475.5	471.2	462.6	462.6
52.5°	5964.2	4585.0	1015.6	591.7	540.0	507.8	469.0	443.2	432.5	423.9	423.9
55°	6846.4	5275.7	996.2	565.9	503.5	473.4	438.9	413.1	402.3	391.6	387.3
57.5°	7851.2	6190.1	1133.9	548.7	477.7	438.9	400.2	376.5	367.9	357.2	352.9
60°	8787.1	7102.4	1562.1	522.8	454.0	406.7	367.9	344.3	333.5	322.7	322.7
62.5°	9869.4	8232.0	2287.1	522.8	432.5	372.2	333.5	316.3	309.8	299.1	296.9
65°	11149.6	9400.3	2816.4	555.1	426.0	342.1	301.2	284.0	277.6	271.1	268.9
67.5°	12124.2	10071.6	2422.7	641.2	454.0	316.3	268.9	258.2	253.9	247.4	243.1
70°	12227.5	9662.8	1460.9	692.8	482.0	290.5	241.0	230.2	230.2	223.8	219.5
72.5°	11300.2	8574.1	983.3	617.5	436.8	260.3	213.0	204.4	200.1	195.8	193.6
75°	9456.2	7272.4	776.7	492.7	335.6	215.2	185.0	176.4	170.0	167.8	163.5
77.5°	6351.5	4727.0	574.5	385.1	247.4	174.3	154.9	146.3	139.9	137.7	131.2
80°	2439.9	1800.9	370.1	279.7	174.3	137.7	122.6	114.0	109.7	103.3	99.0
82.5°	718.6	583.1	206.6	172.1	111.9	94.7	88.2	81.8	75.3	68.9	66.7
85°	296.9	266.8	126.9	90.4	68.9	55.9	51.6	45.2	38.7	34.4	30.1
87.5°	137.7	114.0	58.1	34.4	23.7	12.9	6.5	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)