

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: P483904

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

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483904
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-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

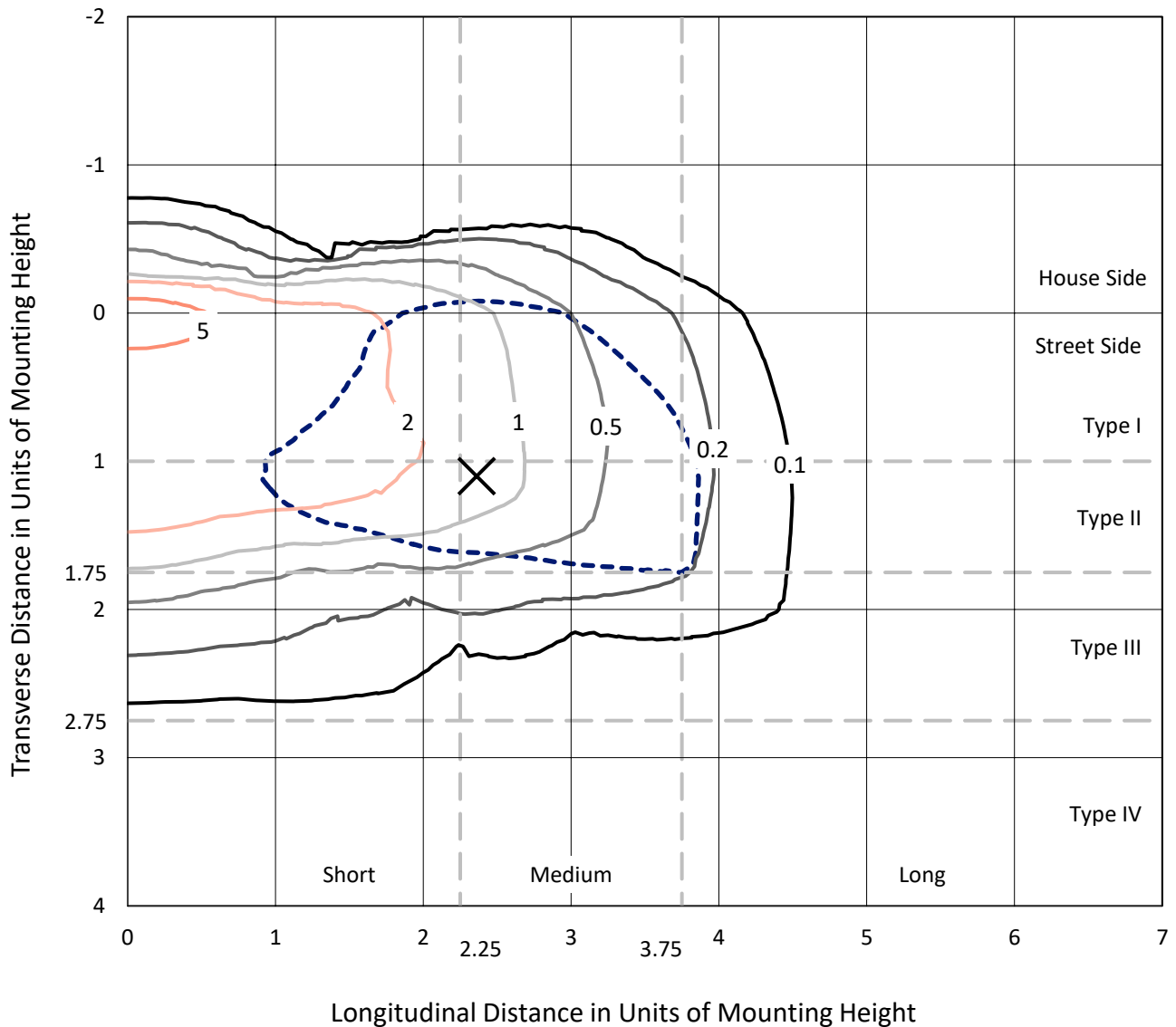
Lumens per Lamp: N/A
Luminaire Lumens: 18577.7 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

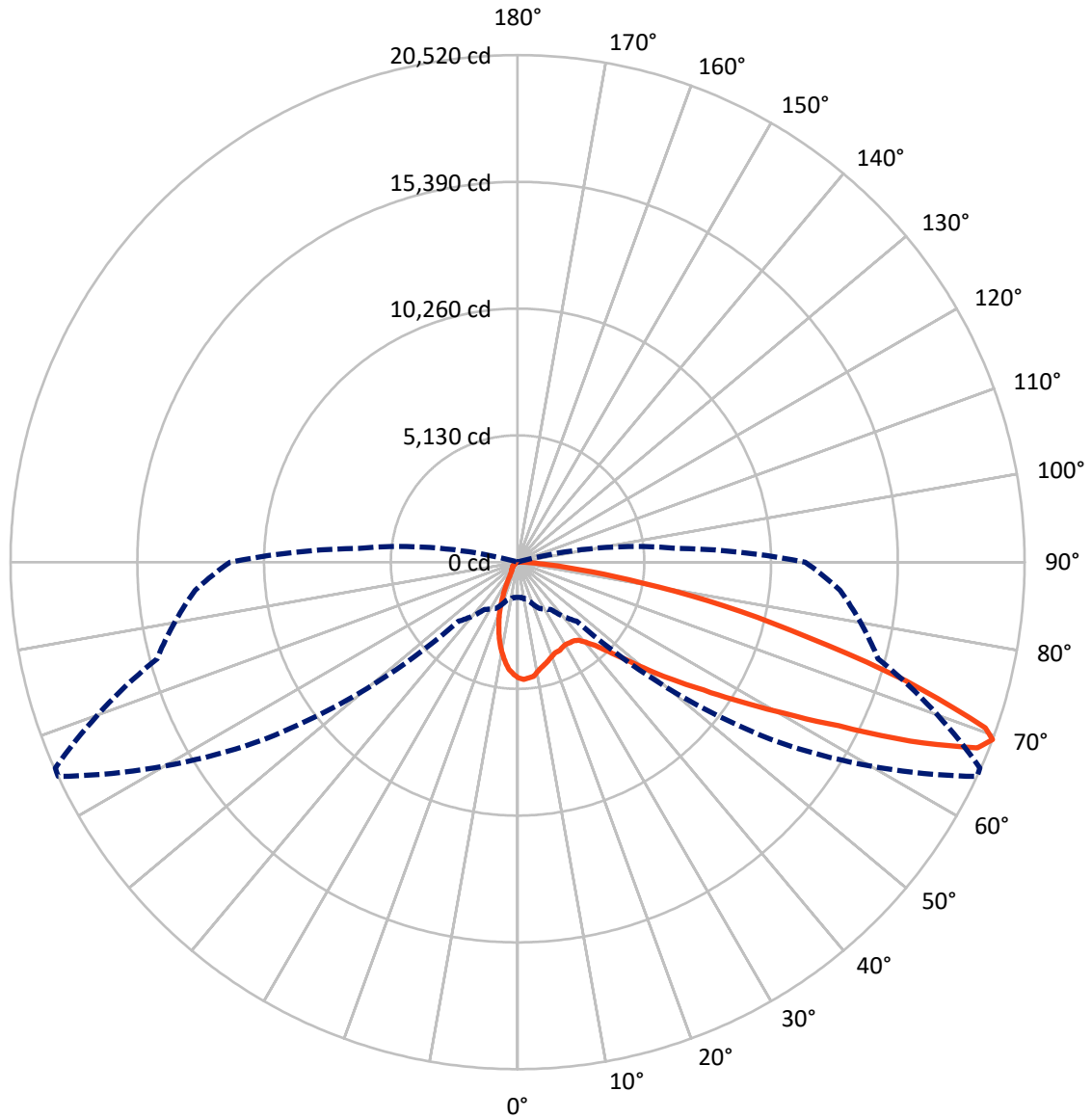
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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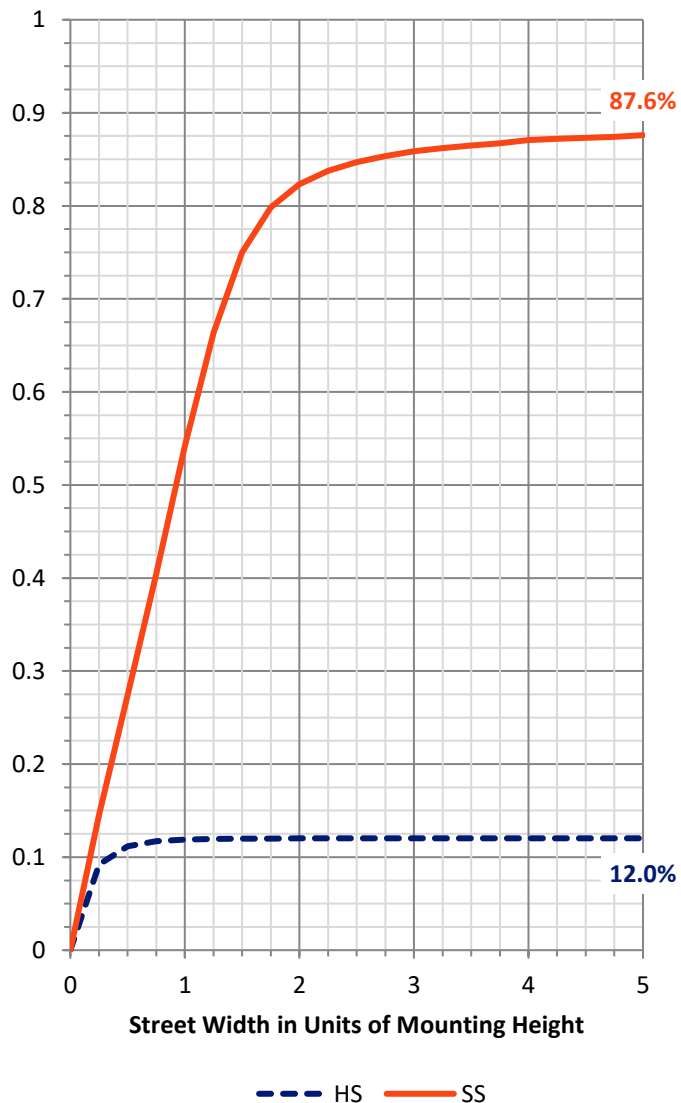
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2253.6	0.0	2253.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	16324.1	0.0	16324.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	18577.7	0.0	18577.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.3	2.1
10°-20°	838.6	4.5
20°-30°	1167.6	6.3
30°-40°	1654.6	8.9
40°-50°	2607.5	14.0
50°-60°	4231.1	22.8
60°-70°	4725.3	25.4
70°-80°	2660.9	14.3
80°-90°	308.8	1.7
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°	18577.7	100.0
0°-180°	18577.7	100.0

Coefficient of Utilization



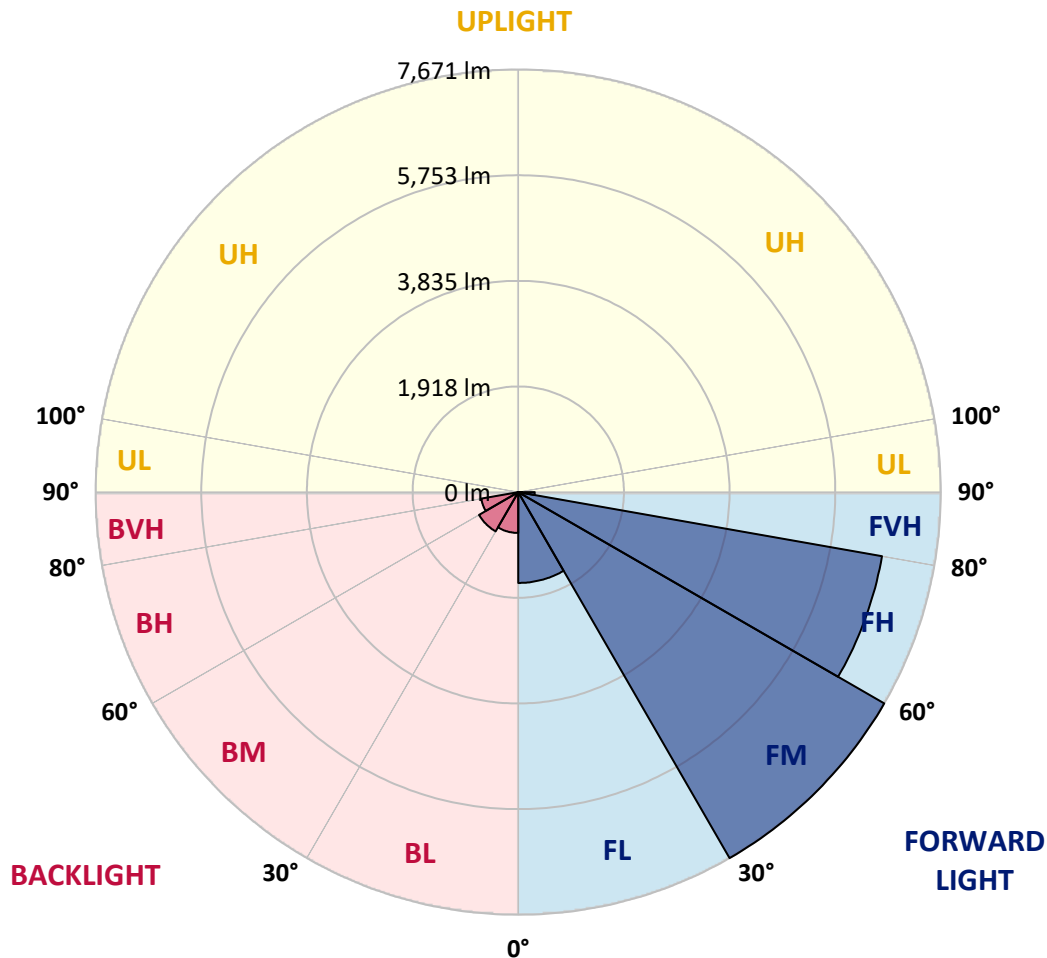
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1648.6	8.9			
FM (30°-60°)	7670.9	41.3			
FH (60°-80°)	6704.4	36.1			G3/7500
FVH (80°-90°)	300.2	1.6			G3/500
BL (0°-30°)	740.9	4.0	B2/1000		
BM (30°-60°)	822.3	4.4	B1/1000		
BH (60°-80°)	681.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9
2.5°	4510.9	4546.0	4556.1	4591.1	4608.7	4683.9	4726.5	4751.5	4739.0	4766.6	4769.1
5°	4190.2	4170.1	4222.7	4260.3	4340.5	4470.8	4603.7	4706.4	4754.0	4799.1	4791.6
7.5°	3846.8	3836.8	3889.4	3974.6	4047.3	4205.2	4418.2	4671.3	4661.3	4771.6	4804.2
10°	3611.3	3621.3	3638.8	3724.0	3831.8	3992.2	4257.8	4493.4	4546.0	4779.1	4844.3
12.5°	3395.7	3413.3	3445.9	3533.6	3658.9	3824.3	4082.4	4358.1	4438.3	4736.5	4866.8
15°	3325.6	3285.5	3350.6	3415.8	3546.1	3694.0	3912.0	4255.3	4290.4	4686.4	4904.4
17.5°	3267.9	3242.9	3272.9	3325.6	3463.4	3583.7	3789.2	4145.1	4210.2	4666.3	4899.4
20°	3285.5	3262.9	3275.4	3315.5	3378.2	3491.0	3681.4	4039.8	4110.0	4573.6	4891.9
22.5°	3335.6	3353.1	3330.6	3340.6	3360.7	3418.3	3623.8	3964.6	4024.8	4556.1	4934.5
25°	3561.1	3531.1	3501.0	3488.5	3370.7	3395.7	3606.3	3959.6	4002.2	4493.4	4899.4
27.5°	3796.7	3771.7	3759.1	3686.4	3526.1	3450.9	3608.8	3889.4	3947.1	4468.3	4856.8
30°	4082.4	4115.0	4064.9	3977.2	3754.1	3568.7	3636.3	3854.4	3934.5	4373.1	4829.2
32.5°	4383.1	4400.7	4425.7	4360.6	4072.4	3746.6	3719.0	3886.9	3891.9	4373.1	4766.6
35°	4724.0	4698.9	4764.1	4769.1	4516.0	4062.4	3876.9	3909.5	3962.1	4353.1	4744.0
37.5°	5017.2	5059.8	5135.0	5255.3	4994.6	4508.4	4122.5	4014.7	4037.3	4445.8	4761.6
40°	5338.0	5380.6	5551.0	5671.3	5523.4	5009.7	4495.9	4260.3	4277.9	4583.6	4851.8
42.5°	5691.3	5774.0	5977.0	6187.5	6147.4	5646.2	4977.1	4621.2	4613.7	4927.0	5037.2
45°	6170.0	6280.2	6500.8	6743.9	6778.9	6375.5	5618.6	5160.0	5185.1	5375.5	5420.7
47.5°	6836.6	6831.6	7047.1	7317.8	7520.7	7132.3	6385.5	5884.3	5881.8	6084.8	5989.5
50°	7480.7	7483.2	7540.8	7854.1	8380.3	8182.4	7335.3	6846.6	6819.0	6919.3	6766.4
52.5°	7778.9	7743.8	7701.2	8079.6	9041.9	9505.6	8538.2	7936.8	7914.2	7854.1	7814.0
55°	7465.6	7478.1	7475.6	7869.1	9390.3	10901.5	10082.0	9137.2	9099.6	8911.6	8966.8
57.5°	6460.7	6420.6	6508.3	7122.3	8991.8	11853.8	12289.8	10650.8	10553.1	9929.1	9803.8
60°	4809.2	4821.7	4894.4	5618.6	8001.9	12054.2	14402.4	12427.7	12006.6	10645.8	10472.9
62.5°	3358.1	3333.1	3360.7	3766.6	5721.4	11252.3	15830.9	14587.9	14181.9	11460.3	11360.1
65°	2403.3	2370.8	2481.0	2729.1	3435.8	8603.4	16033.9	17464.9	17101.5	12761.0	12520.4
67.5°	1729.2	1724.2	1852.0	2303.1	2440.9	4954.5	14530.3	20071.2	19850.7	14304.7	13227.1
69°	1431.0	1433.5	1556.3	2062.5	2330.7	3383.2	12502.8	20519.8	20479.7	15101.6	13094.3
70°	1248.0	1258.1	1400.9	1919.7	2285.5	2781.7	10778.7	20078.7	20038.6	15257.0	12655.7
72.5°	769.4	776.9	964.8	1538.7	2172.8	2270.5	6445.6	16427.4	16565.2	14545.3	10904.0
75°	368.4	370.9	506.2	1112.7	2095.1	2152.7	3453.4	12121.9	12412.6	11743.5	8520.7
77.5°	195.5	195.5	243.1	591.4	1696.6	2024.9	2050.0	8550.7	8791.3	7425.5	4844.3
80°	97.7	100.2	147.9	308.2	1052.6	1984.8	1601.4	5099.9	5230.2	3029.9	1508.7
82.5°	37.6	40.1	70.2	185.4	546.3	1676.6	1405.9	2508.6	2476.0	709.2	368.4
85°	5.0	5.0	25.1	110.3	233.1	739.3	1160.3	1047.5	1012.5	155.4	177.9
87.5°	0.0	0.0	5.0	32.6	70.2	215.5	448.6	288.2	320.8	42.6	87.7
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°	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9	4683.9
2.5°	4756.5	4703.9	4623.7	4546.0	4463.3	4363.1	4252.8	4212.7	4142.6	4137.5	4177.6
5°	4751.5	4666.3	4526.0	4360.6	4125.0	3947.1	3754.1	3613.8	3506.0	3435.8	3453.4
7.5°	4776.6	4673.8	4430.8	4074.9	3771.7	3418.3	3120.1	2914.6	2726.6	2633.9	2623.9
10°	4736.5	4598.7	4242.8	3744.1	3298.0	2804.3	2368.2	2092.6	1811.9	1709.1	1714.2
12.5°	4759.0	4566.1	4039.8	3403.3	2789.3	2147.7	1626.4	1250.5	987.4	902.2	892.2
15°	4774.1	4495.9	3844.3	2994.8	2225.4	1463.6	942.3	709.2	626.5	611.5	609.0
17.5°	4716.4	4410.7	3568.7	2591.3	1649.0	889.7	626.5	578.9	563.9	553.8	548.8
20°	4713.9	4360.6	3330.6	2177.8	1100.2	606.5	541.3	523.8	501.2	493.7	493.7
22.5°	4671.3	4255.3	3044.9	1724.2	701.7	521.3	486.2	458.6	433.6	423.5	421.0
25°	4658.8	4132.5	2776.7	1295.6	533.8	466.1	431.0	390.9	360.9	345.8	338.3
27.5°	4623.7	4027.3	2506.1	912.2	466.1	416.0	370.9	328.3	293.2	270.7	268.2
30°	4498.4	3917.0	2205.4	631.5	423.5	368.4	318.3	268.2	233.1	218.0	213.0
32.5°	4445.8	3814.3	1877.1	486.2	385.9	325.8	268.2	223.0	195.5	180.4	177.9
35°	4383.1	3663.9	1558.8	423.5	350.9	283.2	225.5	188.0	165.4	152.9	152.9
37.5°	4390.7	3543.6	1260.6	383.4	313.3	243.1	193.0	160.4	140.3	127.8	127.8
40°	4368.1	3448.4	979.9	348.3	278.2	208.0	162.9	135.3	117.8	105.3	102.7
42.5°	4470.8	3423.3	739.3	318.3	243.1	177.9	140.3	115.3	97.7	82.7	82.7
45°	4643.8	3463.4	576.4	290.7	208.0	152.9	120.3	95.2	77.7	67.7	65.2
47.5°	5104.9	3621.3	451.1	268.2	177.9	132.8	100.2	77.7	62.7	52.6	50.1
50°	5774.0	3974.6	383.4	235.6	150.4	112.8	82.7	60.1	50.1	40.1	37.6
52.5°	6726.3	4568.6	348.3	208.0	125.3	92.7	65.2	47.6	37.6	30.1	27.6
55°	7763.8	5310.4	315.8	175.4	105.3	75.2	52.6	37.6	27.6	20.0	17.5
57.5°	8573.3	5951.9	288.2	145.4	85.2	60.1	40.1	27.6	20.0	12.5	10.0
60°	9457.9	6403.0	253.1	115.3	70.2	45.1	30.1	20.0	15.0	7.5	7.5
62.5°	10370.2	6931.8	208.0	90.2	55.1	35.1	22.6	15.0	10.0	2.5	2.5
65°	11638.2	7345.3	160.4	70.2	42.6	25.1	17.5	12.5	5.0	0.0	0.0
67.5°	11996.6	7142.3	117.8	55.1	30.1	17.5	12.5	7.5	2.5	0.0	0.0
69°	11638.2	6433.1	102.7	47.6	25.1	15.0	10.0	5.0	2.5	0.0	0.0
70°	10984.2	5881.8	90.2	40.1	22.6	15.0	7.5	5.0	2.5	0.0	0.0
72.5°	9187.3	4510.9	70.2	30.1	17.5	12.5	7.5	5.0	0.0	0.0	0.0
75°	6738.9	2786.8	52.6	22.6	15.0	10.0	7.5	5.0	0.0	0.0	0.0
77.5°	3611.3	1017.5	37.6	15.0	10.0	7.5	7.5	5.0	0.0	0.0	0.0
80°	989.9	300.7	27.6	10.0	7.5	5.0	5.0	2.5	0.0	0.0	0.0
82.5°	270.7	77.7	17.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	145.4	30.1	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	75.2	10.0	7.5	5.0	5.0	2.5	0.0	0.0	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)