

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: P483988

Luminaire Tested: **IFLD-M-SA4B-735-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483988
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

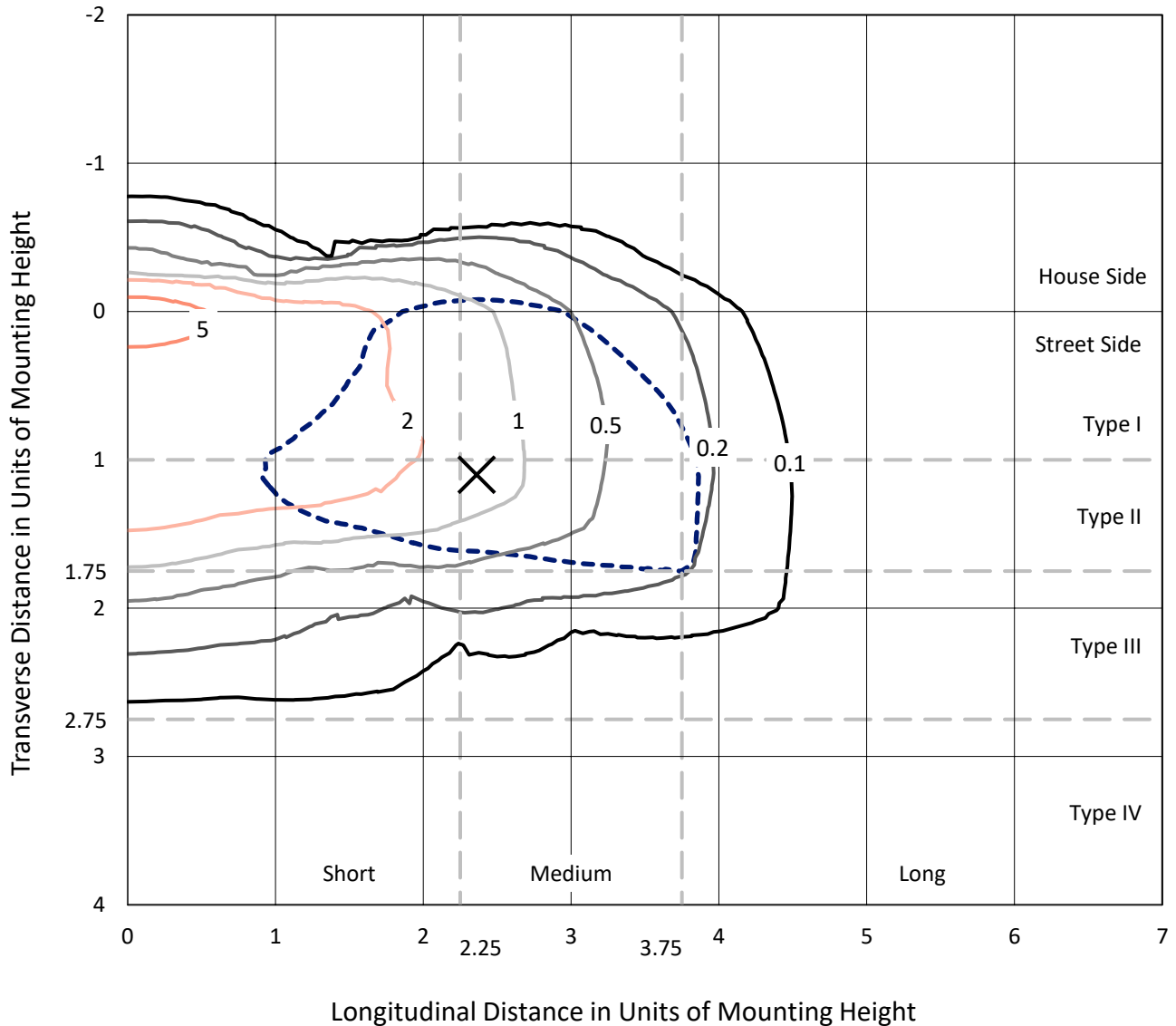
Lumens per Lamp: N/A
Luminaire Lumens: 18540.5 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

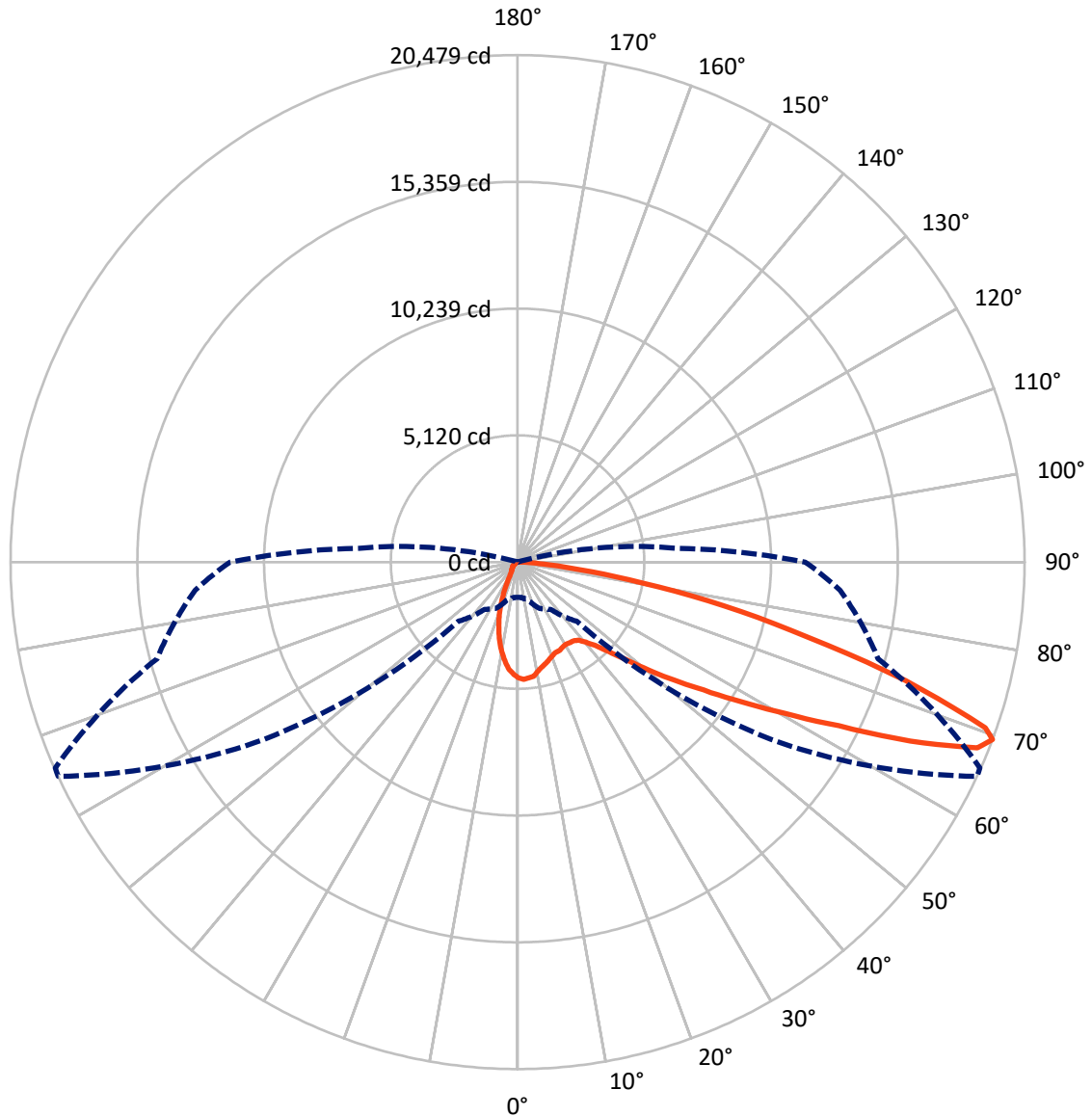
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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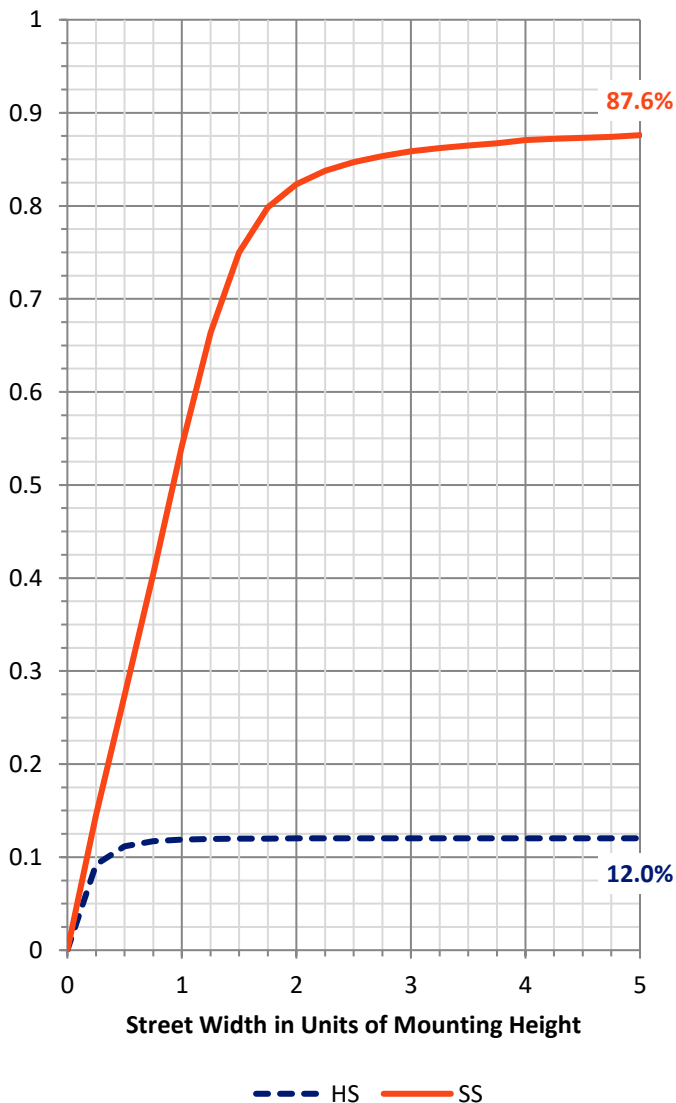
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2249.1	0.0	2249.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	16291.4	0.0	16291.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	18540.5	0.0	18540.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.5	2.1
10°-20°	837.0	4.5
20°-30°	1165.2	6.3
30°-40°	1651.3	8.9
40°-50°	2602.3	14.0
50°-60°	4222.7	22.8
60°-70°	4715.9	25.4
70°-80°	2655.6	14.3
80°-90°	308.1	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°	18540.5	100.0
0°-180°	18540.5	100.0



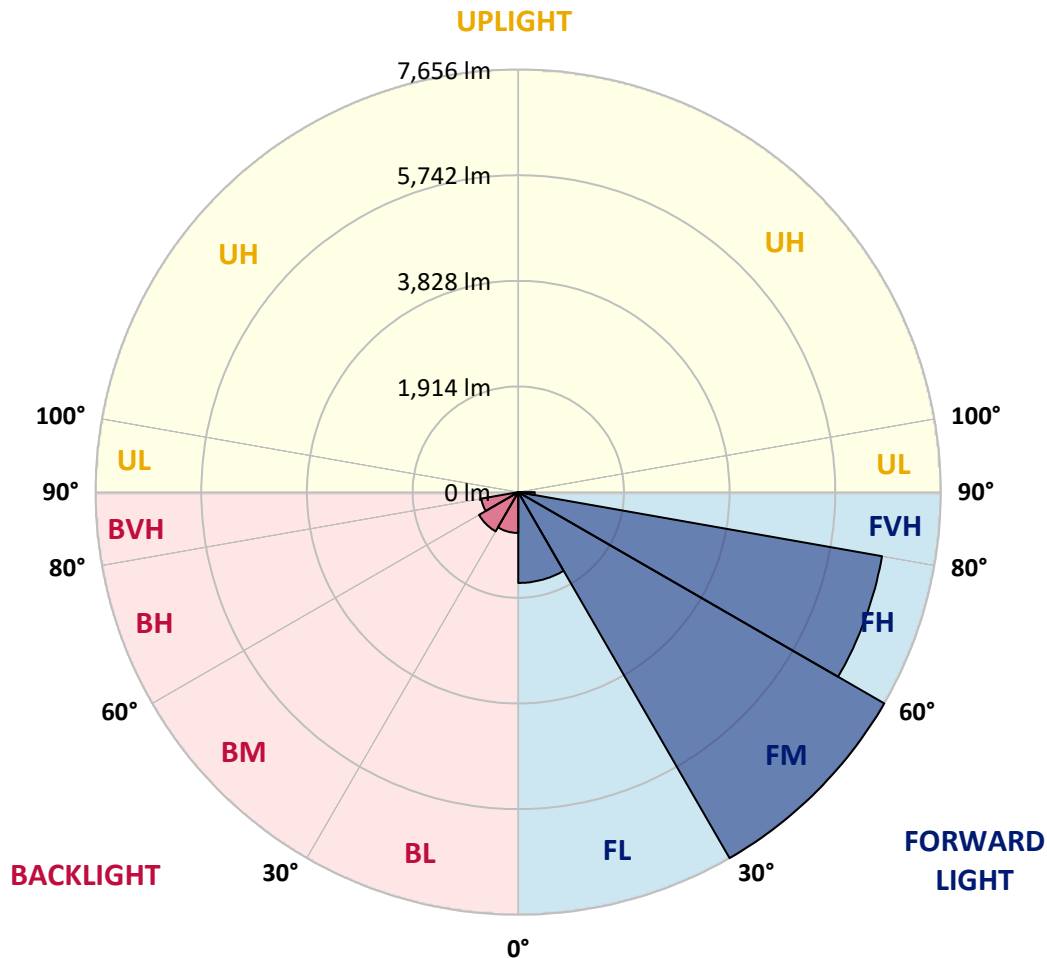
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.3	8.9			
FM (30°-60°)	7655.6	41.3			
FH (60°-80°)	6691.0	36.1			G3/7500
FVH (80°-90°)	299.6	1.6			G3/500
BL (0°-30°)	739.4	4.0	B2/1000		
BM (30°-60°)	820.7	4.4	B1/1000		
BH (60°-80°)	680.5	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°	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5
2.5°	4501.9	4536.9	4546.9	4582.0	4599.5	4674.5	4717.0	4742.0	4729.5	4757.0	4759.5
5°	4181.8	4161.8	4214.3	4251.8	4331.9	4461.9	4594.5	4697.0	4744.5	4789.5	4782.0
7.5°	3839.1	3829.1	3881.7	3966.7	4039.2	4196.8	4409.4	4662.0	4652.0	4762.0	4794.5
10°	3604.0	3614.0	3631.6	3716.6	3824.1	3984.2	4249.3	4484.4	4536.9	4769.5	4834.6
12.5°	3388.9	3406.5	3439.0	3526.5	3651.6	3816.6	4074.2	4349.4	4429.4	4727.0	4857.1
15°	3318.9	3278.9	3343.9	3409.0	3539.0	3686.6	3904.2	4246.8	4281.8	4677.0	4894.6
17.5°	3261.4	3236.4	3266.4	3318.9	3456.5	3576.5	3781.6	4136.8	4201.8	4657.0	4889.6
20°	3278.9	3256.4	3268.9	3308.9	3371.4	3484.0	3674.1	4031.7	4101.8	4564.5	4882.1
22.5°	3328.9	3346.4	3323.9	3333.9	3353.9	3411.5	3616.5	3956.7	4016.7	4546.9	4924.6
25°	3554.0	3524.0	3494.0	3481.5	3363.9	3388.9	3599.0	3951.7	3994.2	4484.4	4889.6
27.5°	3789.1	3764.1	3751.6	3679.1	3519.0	3444.0	3601.5	3881.7	3939.2	4459.4	4847.1
30°	4074.2	4106.8	4056.7	3969.2	3746.6	3561.5	3629.1	3846.6	3926.7	4364.4	4819.6
32.5°	4374.4	4391.9	4416.9	4351.9	4064.2	3739.1	3711.6	3879.2	3884.2	4364.4	4757.0
35°	4714.5	4689.5	4754.5	4759.5	4506.9	4054.2	3869.2	3901.7	3954.2	4344.4	4734.5
37.5°	5007.1	5049.7	5124.7	5244.7	4984.6	4499.4	4114.3	4006.7	4029.2	4436.9	4752.0
40°	5327.3	5369.8	5539.9	5659.9	5512.4	4999.6	4486.9	4251.8	4269.3	4574.5	4842.1
42.5°	5679.9	5762.5	5965.0	6175.1	6135.1	5634.9	4967.1	4612.0	4604.5	4917.1	5027.1
45°	6157.6	6267.7	6487.8	6730.4	6765.4	6362.7	5607.4	5149.7	5174.7	5364.8	5409.8
47.5°	6822.9	6817.9	7033.0	7303.1	7505.7	7118.0	6372.7	5872.5	5870.0	6072.6	5977.6
50°	7465.7	7468.2	7525.7	7838.3	8363.6	8166.0	7320.6	6832.9	6805.4	6905.5	6752.9
52.5°	7763.3	7728.3	7685.8	8063.4	9023.9	9486.6	8521.1	7920.9	7898.4	7838.3	7798.3
55°	7450.7	7463.2	7460.7	7853.4	9371.5	10879.6	10061.8	9118.9	9081.4	8893.8	8948.8
57.5°	6447.8	6407.7	6495.3	7108.0	8973.8	11830.1	12265.2	10629.5	10532.0	9909.2	9784.2
60°	4799.6	4812.1	4884.6	5607.4	7985.9	12030.1	14373.6	12402.8	11982.6	10624.5	10452.0
62.5°	3351.4	3326.4	3353.9	3759.1	5709.9	11229.8	15799.3	14558.7	14153.5	11437.4	11337.3
65°	2398.5	2366.0	2476.1	2723.7	3429.0	8586.2	16001.8	17429.9	17067.3	12735.4	12495.3
67.5°	1725.7	1720.7	1848.3	2298.5	2436.0	4944.6	14501.2	20031.1	19811.0	14276.1	13200.6
69°	1428.1	1430.6	1553.2	2058.4	2326.0	3376.4	12477.8	20478.7	20438.7	15071.4	13068.1
70°	1245.5	1255.5	1398.1	1915.8	2281.0	2776.2	10757.1	20038.6	19998.5	15226.5	12630.4
72.5°	767.8	775.3	962.9	1535.7	2168.4	2266.0	6432.7	16394.5	16532.1	14516.2	10882.1
75°	367.7	370.2	505.2	1110.5	2090.9	2148.4	3446.5	12097.7	12387.8	11720.0	8503.6
77.5°	195.1	195.1	242.6	590.3	1693.2	2020.9	2045.9	8533.6	8773.7	7410.7	4834.6
80°	97.5	100.0	147.6	307.6	1050.4	1980.8	1598.2	5089.7	5219.7	3023.8	1505.6
82.5°	37.5	40.0	70.0	185.1	545.2	1673.2	1403.1	2503.6	2471.1	707.8	367.7
85°	5.0	5.0	25.0	110.0	232.6	737.8	1158.0	1045.4	1010.4	155.1	177.6
87.5°	0.0	0.0	5.0	32.5	70.0	215.1	447.7	287.6	320.1	42.5	87.5
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°	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5	4674.5
2.5°	4747.0	4694.5	4614.5	4536.9	4454.4	4354.4	4244.3	4204.3	4134.3	4129.3	4169.3
5°	4742.0	4657.0	4516.9	4351.9	4116.8	3939.2	3746.6	3606.5	3499.0	3429.0	3446.5
7.5°	4767.0	4664.5	4421.9	4066.7	3764.1	3411.5	3113.8	2908.7	2721.2	2628.6	2618.6
10°	4727.0	4589.5	4234.3	3736.6	3291.4	2798.7	2363.5	2088.4	1808.3	1705.7	1710.7
12.5°	4749.5	4556.9	4031.7	3396.5	2783.7	2143.4	1623.2	1248.0	985.4	900.4	890.4
15°	4764.5	4486.9	3836.6	2988.8	2220.9	1460.6	940.4	707.8	625.3	610.3	607.8
17.5°	4707.0	4401.9	3561.5	2586.1	1645.7	887.9	625.3	577.7	562.7	552.7	547.7
20°	4704.5	4351.9	3323.9	2173.4	1098.0	605.3	540.2	522.7	500.2	492.7	492.7
22.5°	4662.0	4246.8	3038.8	1720.7	700.3	520.2	485.2	457.7	432.7	422.7	420.2
25°	4649.5	4124.3	2771.2	1293.1	532.7	465.2	430.2	390.2	360.2	345.1	337.6
27.5°	4614.5	4019.2	2501.1	910.4	465.2	415.2	370.2	327.6	292.6	270.1	267.6
30°	4489.4	3909.2	2200.9	630.3	422.7	367.7	317.6	267.6	232.6	217.6	212.6
32.5°	4436.9	3806.6	1873.3	485.2	385.2	325.1	267.6	222.6	195.1	180.1	177.6
35°	4374.4	3656.6	1555.7	422.7	350.1	282.6	225.1	187.6	165.1	152.6	152.6
37.5°	4381.9	3536.5	1258.0	382.7	312.6	242.6	192.6	160.1	140.1	127.6	127.6
40°	4359.4	3441.5	977.9	347.6	277.6	207.6	162.6	135.1	117.6	105.0	102.5
42.5°	4461.9	3416.5	737.8	317.6	242.6	177.6	140.1	115.0	97.5	82.5	82.5
45°	4634.5	3456.5	575.2	290.1	207.6	152.6	120.1	95.0	77.5	67.5	65.0
47.5°	5094.7	3614.0	450.2	267.6	177.6	132.6	100.0	77.5	62.5	52.5	50.0
50°	5762.5	3966.7	382.7	235.1	150.1	112.5	82.5	60.0	50.0	40.0	37.5
52.5°	6712.9	4559.4	347.6	207.6	125.1	92.5	65.0	47.5	37.5	30.0	27.5
55°	7748.3	5299.8	315.1	175.1	105.0	75.0	52.5	37.5	27.5	20.0	17.5
57.5°	8556.2	5940.0	287.6	145.1	85.0	60.0	40.0	27.5	20.0	12.5	10.0
60°	9439.0	6390.2	252.6	115.0	70.0	45.0	30.0	20.0	15.0	7.5	7.5
62.5°	10349.4	6918.0	207.6	90.0	55.0	35.0	22.5	15.0	10.0	2.5	2.5
65°	11615.0	7330.6	160.1	70.0	42.5	25.0	17.5	12.5	5.0	0.0	0.0
67.5°	11972.6	7128.0	117.6	55.0	30.0	17.5	12.5	7.5	2.5	0.0	0.0
69°	11615.0	6420.2	102.5	47.5	25.0	15.0	10.0	5.0	2.5	0.0	0.0
70°	10962.2	5870.0	90.0	40.0	22.5	15.0	7.5	5.0	2.5	0.0	0.0
72.5°	9168.9	4501.9	70.0	30.0	17.5	12.5	7.5	5.0	0.0	0.0	0.0
75°	6725.4	2781.2	52.5	22.5	15.0	10.0	7.5	5.0	0.0	0.0	0.0
77.5°	3604.0	1015.4	37.5	15.0	10.0	7.5	7.5	5.0	0.0	0.0	0.0
80°	987.9	300.1	27.5	10.0	7.5	5.0	5.0	2.5	0.0	0.0	0.0
82.5°	270.1	77.5	17.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	145.1	30.0	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	75.0	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)