

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: P483949

Luminaire Tested: **IFLD-M-SA4B-730-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483949
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

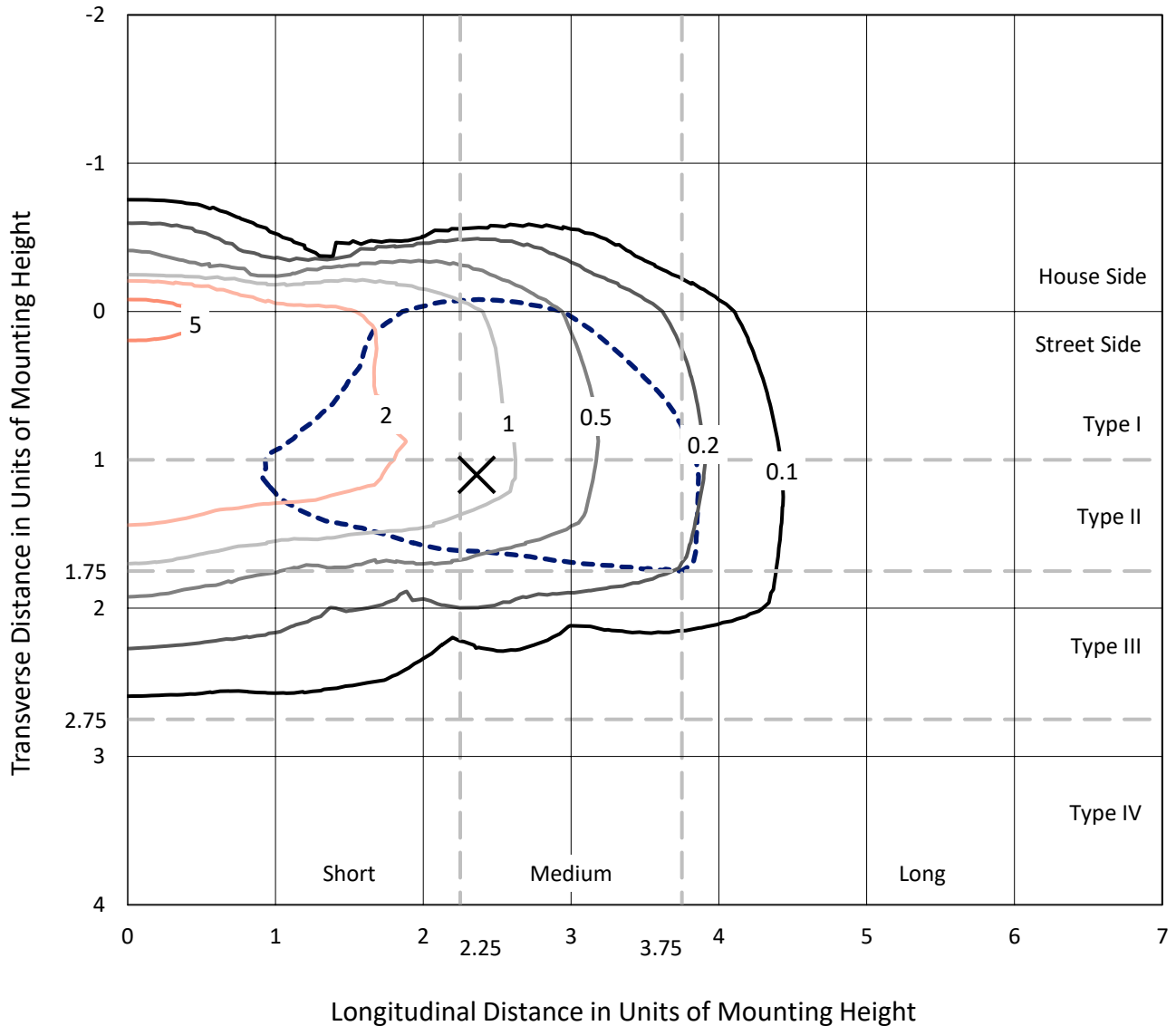
Lumens per Lamp: N/A
Luminaire Lumens: 17117.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

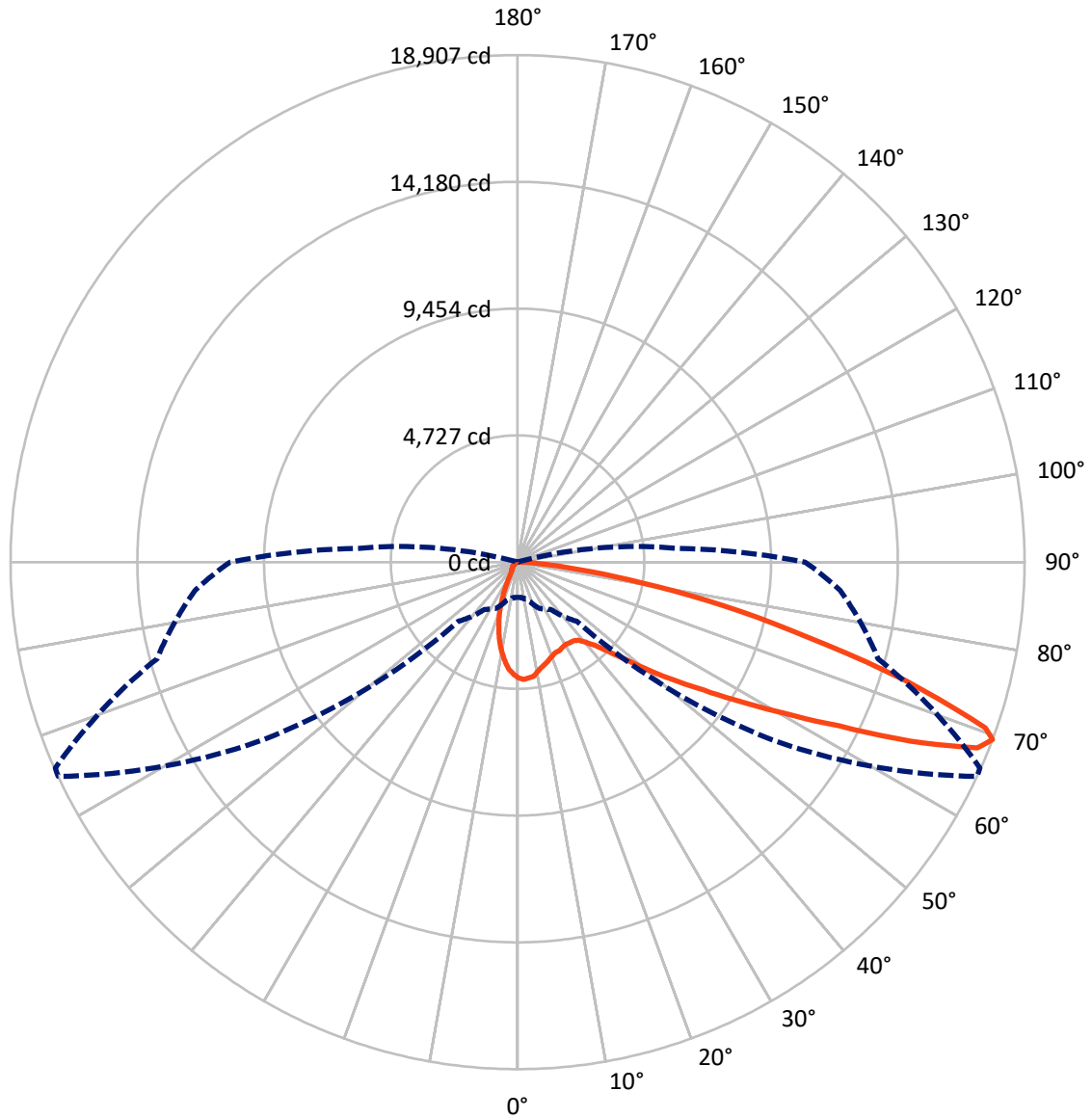
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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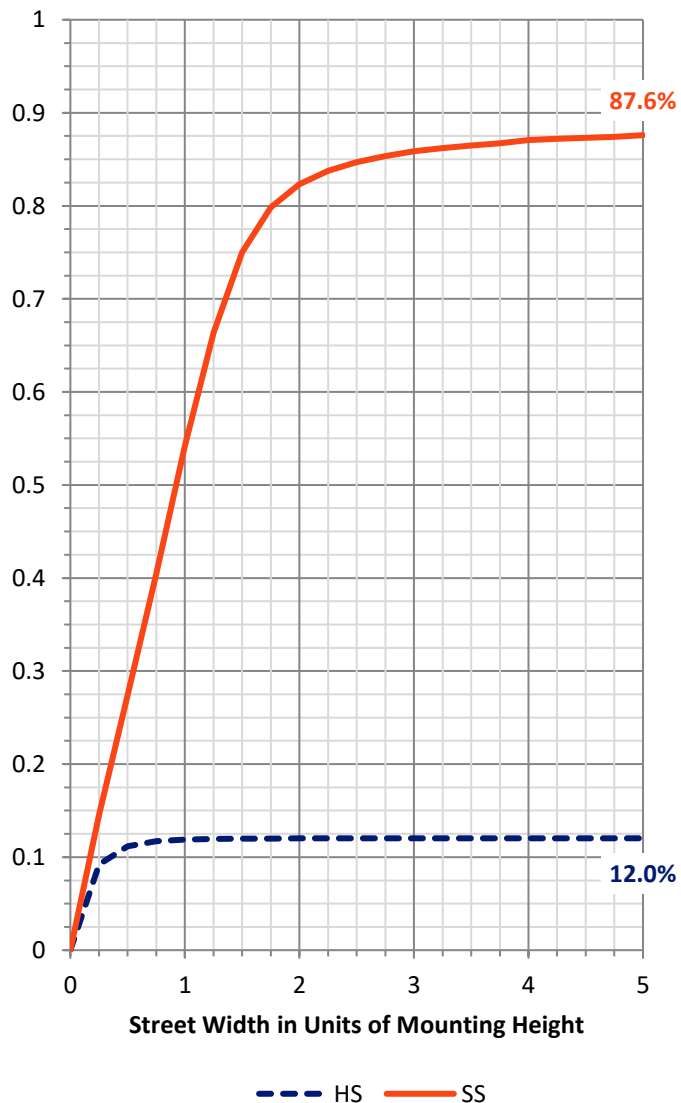
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2076.5	0.0	2076.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15041.1	0.0	15041.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	17117.5	0.0	17117.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.2	2.1
10°-20°	772.7	4.5
20°-30°	1075.8	6.3
30°-40°	1524.5	8.9
40°-50°	2402.6	14.0
50°-60°	3898.6	22.8
60°-70°	4353.9	25.4
70°-80°	2451.7	14.3
80°-90°	284.5	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°	17117.5	100.0
0°-180°	17117.5	100.0

Coefficient of Utilization



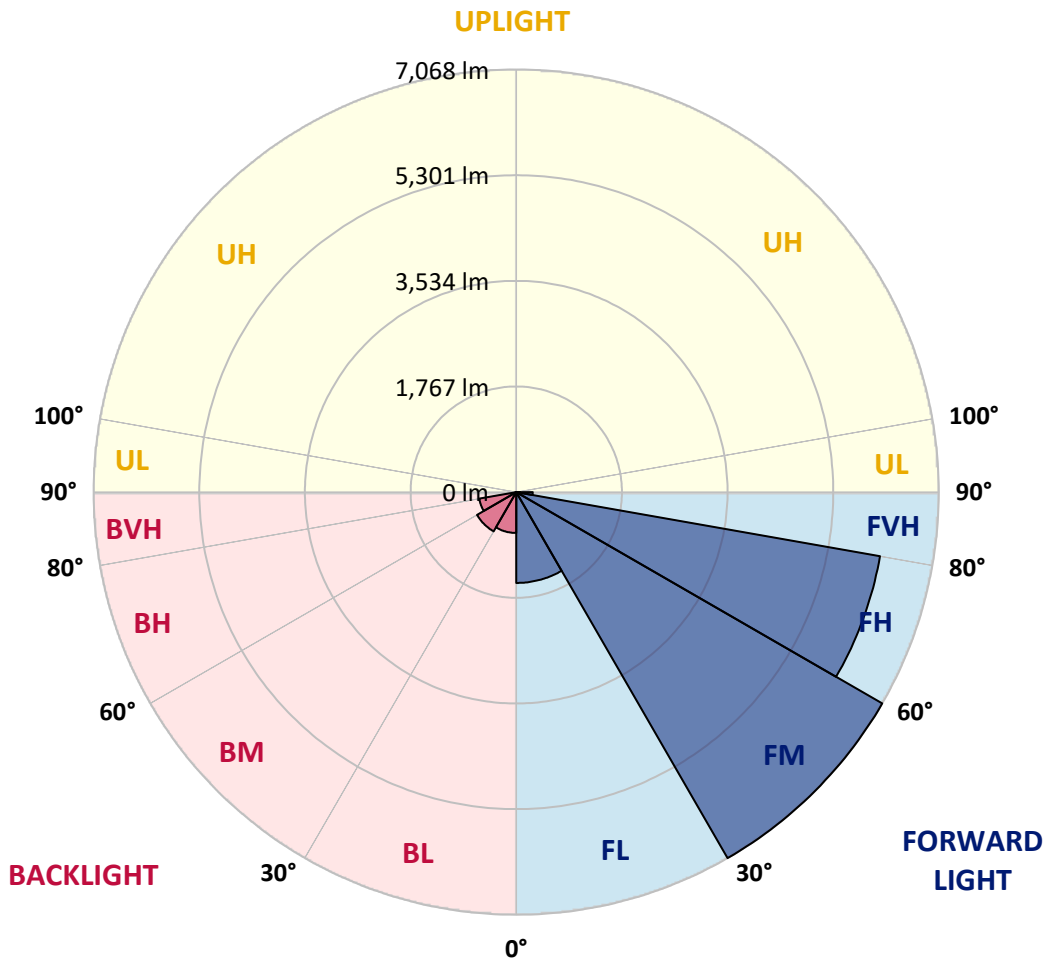
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1519.0	8.9			
FM (30°-60°)	7068.0	41.3			
FH (60°-80°)	6177.4	36.1			G3/7500
FVH (80°-90°)	276.6	1.6			G3/500
BL (0°-30°)	682.7	4.0	B2/1000		
BM (30°-60°)	757.7	4.4	B1/1000		
BH (60°-80°)	628.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	7.8	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°	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7
2.5°	4156.4	4188.7	4198.0	4230.3	4246.4	4315.7	4355.0	4378.1	4366.5	4391.9	4394.2
5°	3860.8	3842.4	3890.8	3925.5	3999.4	4119.4	4241.8	4336.5	4380.4	4421.9	4415.0
7.5°	3544.5	3535.2	3583.7	3662.2	3729.2	3874.7	4071.0	4304.2	4294.9	4396.5	4426.6
10°	3327.4	3336.7	3352.8	3431.3	3530.6	3678.4	3923.2	4140.2	4188.7	4403.5	4463.5
12.5°	3128.8	3145.0	3175.0	3255.8	3371.3	3523.7	3761.5	4015.5	4089.4	4364.2	4484.3
15°	3064.2	3027.2	3087.3	3147.3	3267.4	3403.6	3604.5	3920.9	3953.2	4318.0	4518.9
17.5°	3011.1	2988.0	3015.7	3064.2	3191.2	3302.0	3491.4	3819.3	3879.3	4299.6	4514.3
20°	3027.2	3006.5	3018.0	3054.9	3112.7	3216.6	3392.1	3722.3	3786.9	4214.1	4507.4
22.5°	3073.4	3089.6	3068.8	3078.0	3096.5	3149.6	3339.0	3653.0	3708.4	4198.0	4546.6
25°	3281.2	3253.5	3225.8	3214.3	3105.8	3128.8	3322.8	3648.4	3687.6	4140.2	4514.3
27.5°	3498.3	3475.2	3463.7	3396.7	3248.9	3179.6	3325.1	3583.7	3636.8	4117.1	4475.1
30°	3761.5	3791.6	3745.4	3664.6	3459.0	3288.2	3350.5	3551.4	3625.3	4029.4	4449.7
32.5°	4038.6	4054.8	4077.9	4017.8	3752.3	3452.1	3426.7	3581.4	3586.0	4029.4	4391.9
35°	4352.7	4329.6	4389.6	4394.2	4161.0	3743.1	3572.2	3602.2	3650.7	4010.9	4371.1
37.5°	4622.8	4662.1	4731.4	4842.2	4602.1	4154.1	3798.5	3699.2	3720.0	4096.4	4387.3
40°	4918.4	4957.7	5114.7	5225.5	5089.3	4615.9	4142.5	3925.5	3941.6	4223.4	4470.4
42.5°	5244.0	5320.2	5507.2	5701.2	5664.2	5202.4	4585.9	4258.0	4251.1	4539.7	4641.3
45°	5685.0	5786.6	5989.8	6213.8	6246.1	5874.4	5177.0	4754.5	4777.5	4953.0	4994.6
47.5°	6299.2	6294.6	6493.2	6742.6	6929.6	6571.7	5883.6	5421.8	5419.5	5606.5	5518.8
50°	6892.7	6895.0	6948.1	7236.7	7721.7	7539.2	6758.8	6308.5	6283.1	6375.4	6234.6
52.5°	7167.5	7135.1	7095.9	7444.6	8331.3	8758.4	7867.1	7312.9	7292.2	7236.7	7199.8
55°	6878.8	6890.4	6888.1	7250.6	8652.2	10044.6	9289.5	8419.0	8384.4	8211.2	8262.0
57.5°	5952.9	5915.9	5996.8	6562.5	8285.1	10922.1	11323.9	9813.7	9723.7	9148.7	9033.2
60°	4431.2	4442.7	4509.7	5177.0	7373.0	11106.8	13270.4	11450.9	11062.9	9809.1	9649.8
62.5°	3094.2	3071.1	3096.5	3470.6	5271.7	10367.9	14586.6	13441.3	13067.2	10559.6	10467.2
65°	2214.4	2184.4	2286.0	2514.6	3165.8	7927.2	14773.7	16092.2	15757.4	11758.0	11536.3
67.5°	1593.3	1588.7	1706.4	2122.1	2249.1	4565.1	13388.2	18493.6	18290.4	13180.4	12187.5
69°	1318.5	1320.8	1434.0	1900.4	2147.5	3117.3	11520.1	18907.0	18870.0	13914.7	12065.1
70°	1149.9	1159.2	1290.8	1768.8	2105.9	2563.1	9931.5	18500.6	18463.6	14057.8	11661.0
72.5°	708.9	715.8	889.0	1417.8	2002.0	2092.1	5939.0	15136.2	15263.2	13402.1	10046.9
75°	339.4	341.7	466.4	1025.2	1930.4	1983.5	3182.0	11169.2	11437.0	10820.5	7851.0
77.5°	180.1	180.1	224.0	544.9	1563.3	1865.8	1888.9	7878.7	8100.4	6841.9	4463.5
80°	90.1	92.4	136.2	284.0	969.8	1828.8	1475.5	4699.0	4819.1	2791.7	1390.1
82.5°	34.6	36.9	64.7	170.9	503.4	1544.8	1295.4	2311.4	2281.4	653.5	339.4
85°	4.6	4.6	23.1	101.6	214.7	681.2	1069.1	965.2	932.9	143.2	163.9
87.5°	0.0	0.0	4.6	30.0	64.7	198.6	413.3	265.5	295.6	39.3	80.8
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°	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7	4315.7
2.5°	4382.7	4334.2	4260.3	4188.7	4112.5	4020.2	3918.6	3881.6	3817.0	3812.3	3849.3
5°	4378.1	4299.6	4170.2	4017.8	3800.8	3636.8	3459.0	3329.7	3230.4	3165.8	3182.0
7.5°	4401.2	4306.5	4082.5	3754.6	3475.2	3149.6	2874.8	2685.5	2512.3	2426.9	2417.6
10°	4364.2	4237.2	3909.3	3449.8	3038.8	2583.9	2182.1	1928.1	1669.5	1574.8	1579.4
12.5°	4385.0	4207.2	3722.3	3135.8	2570.0	1978.9	1498.6	1152.2	909.8	831.3	822.0
15°	4398.9	4142.5	3542.2	2759.4	2050.5	1348.5	868.2	653.5	577.3	563.4	561.1
17.5°	4345.7	4064.0	3288.2	2387.6	1519.4	819.7	577.3	533.4	519.5	510.3	505.7
20°	4343.4	4017.8	3068.8	2006.6	1013.7	558.8	498.8	482.6	461.8	454.9	454.9
22.5°	4304.2	3920.9	2805.6	1588.7	646.6	480.3	448.0	422.6	399.5	390.2	387.9
25°	4292.6	3807.7	2558.5	1193.8	491.8	429.5	397.2	360.2	332.5	318.7	311.7
27.5°	4260.3	3710.7	2309.1	840.5	429.5	383.3	341.7	302.5	270.2	249.4	247.1
30°	4144.8	3609.1	2032.0	581.9	390.2	339.4	293.3	247.1	214.7	200.9	196.3
32.5°	4096.4	3514.5	1729.5	448.0	355.6	300.2	247.1	205.5	180.1	166.3	163.9
35°	4038.6	3375.9	1436.3	390.2	323.3	260.9	207.8	173.2	152.4	140.9	140.9
37.5°	4045.6	3265.1	1161.5	353.3	288.6	224.0	177.8	147.8	129.3	117.8	117.8
40°	4024.8	3177.3	902.9	321.0	256.3	191.7	150.1	124.7	108.5	97.0	94.7
42.5°	4119.4	3154.2	681.2	293.3	224.0	163.9	129.3	106.2	90.1	76.2	76.2
45°	4278.8	3191.2	531.1	267.9	191.7	140.9	110.8	87.7	71.6	62.3	60.0
47.5°	4703.7	3336.7	415.6	247.1	163.9	122.4	92.4	71.6	57.7	48.5	46.2
50°	5320.2	3662.2	353.3	217.1	138.5	103.9	76.2	55.4	46.2	36.9	34.6
52.5°	6197.6	4209.5	321.0	191.7	115.5	85.4	60.0	43.9	34.6	27.7	25.4
55°	7153.6	4893.0	290.9	161.6	97.0	69.3	48.5	34.6	25.4	18.5	16.2
57.5°	7899.5	5484.1	265.5	133.9	78.5	55.4	36.9	25.4	18.5	11.5	9.2
60°	8714.6	5899.8	233.2	106.2	64.7	41.6	27.7	18.5	13.9	6.9	6.9
62.5°	9555.1	6387.0	191.7	83.1	50.8	32.3	20.8	13.9	9.2	2.3	2.3
65°	10723.5	6768.0	147.8	64.7	39.3	23.1	16.2	11.5	4.6	0.0	0.0
67.5°	11053.7	6581.0	108.5	50.8	27.7	16.2	11.5	6.9	2.3	0.0	0.0
69°	10723.5	5927.5	94.7	43.9	23.1	13.9	9.2	4.6	2.3	0.0	0.0
70°	10120.8	5419.5	83.1	36.9	20.8	13.9	6.9	4.6	2.3	0.0	0.0
72.5°	8465.2	4156.4	64.7	27.7	16.2	11.5	6.9	4.6	0.0	0.0	0.0
75°	6209.2	2567.7	48.5	20.8	13.9	9.2	6.9	4.6	0.0	0.0	0.0
77.5°	3327.4	937.5	34.6	13.9	9.2	6.9	6.9	4.6	0.0	0.0	0.0
80°	912.1	277.1	25.4	9.2	6.9	4.6	4.6	2.3	0.0	0.0	0.0
82.5°	249.4	71.6	16.2	9.2	6.9	4.6	2.3	0.0	0.0	0.0	0.0
85°	133.9	27.7	9.2	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	69.3	9.2	6.9	4.6	4.6	2.3	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)