

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: P484184

Luminaire Tested: **IFLD-M-SA4C-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484184
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18594.2 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

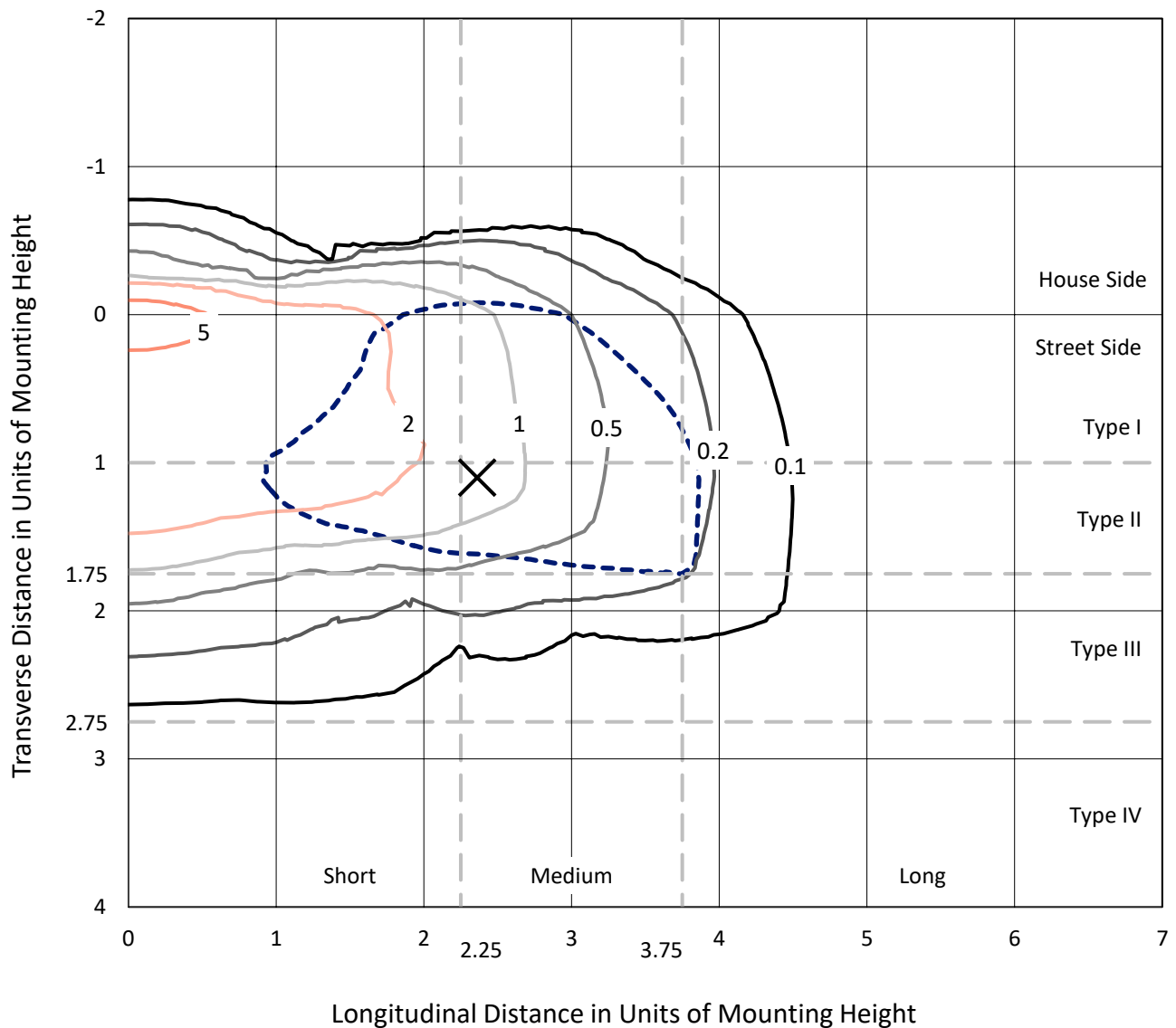
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

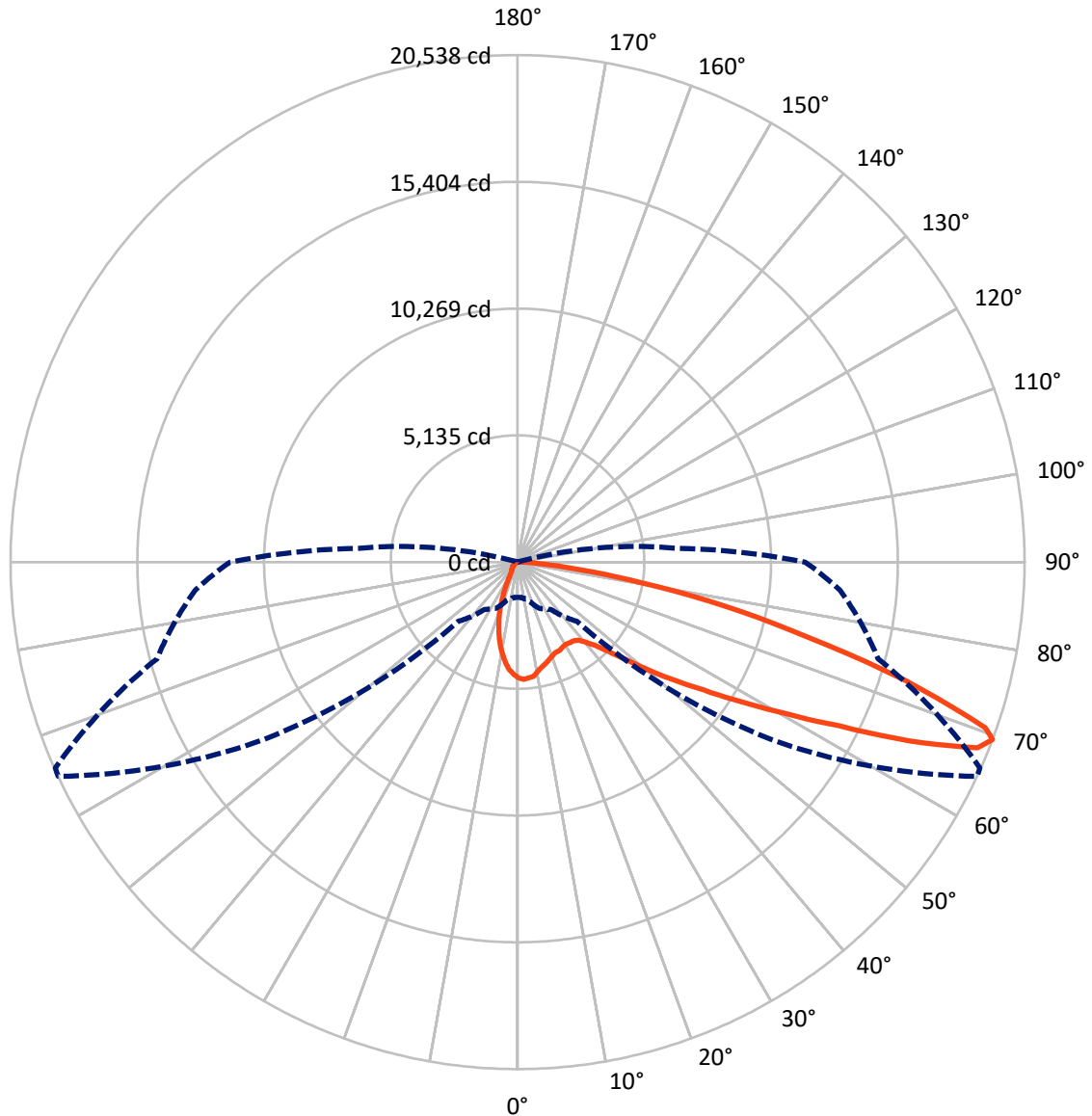
× Max cd
 - - - 1/2 Max cd



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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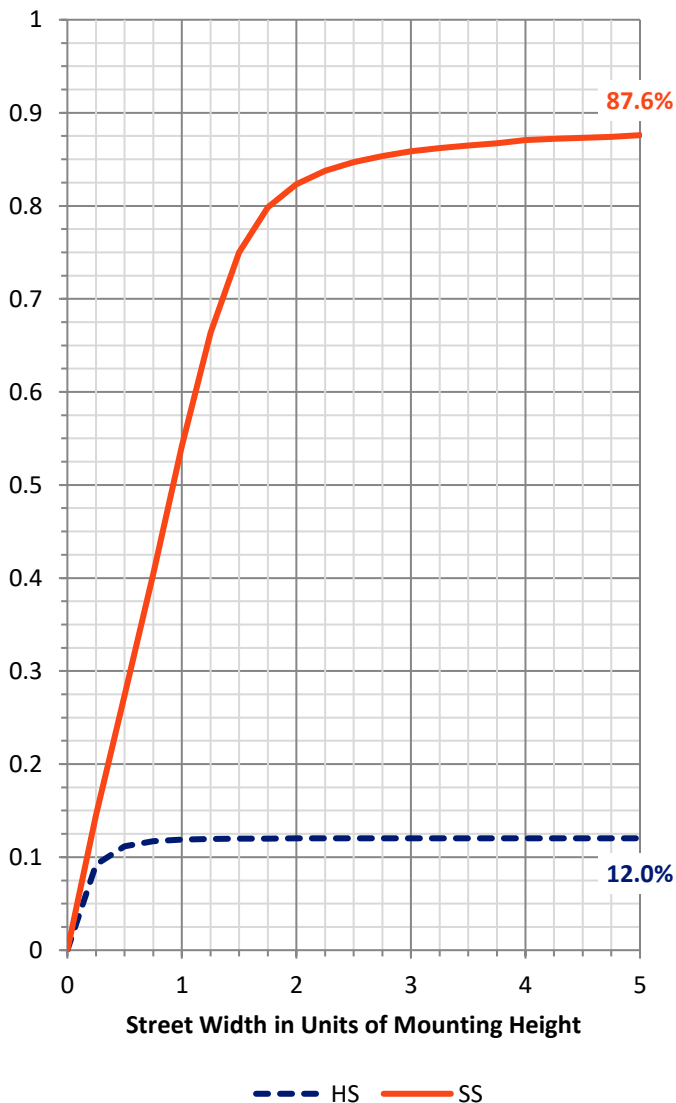
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2255.6	0.0	2255.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	16338.6	0.0	16338.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	18594.2	0.0	18594.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.6	2.1
10°-20°	839.4	4.5
20°-30°	1168.6	6.3
30°-40°	1656.0	8.9
40°-50°	2609.9	14.0
50°-60°	4234.9	22.8
60°-70°	4729.5	25.4
70°-80°	2663.3	14.3
80°-90°	309.0	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°	18594.2	100.0
0°-180°	18594.2	100.0

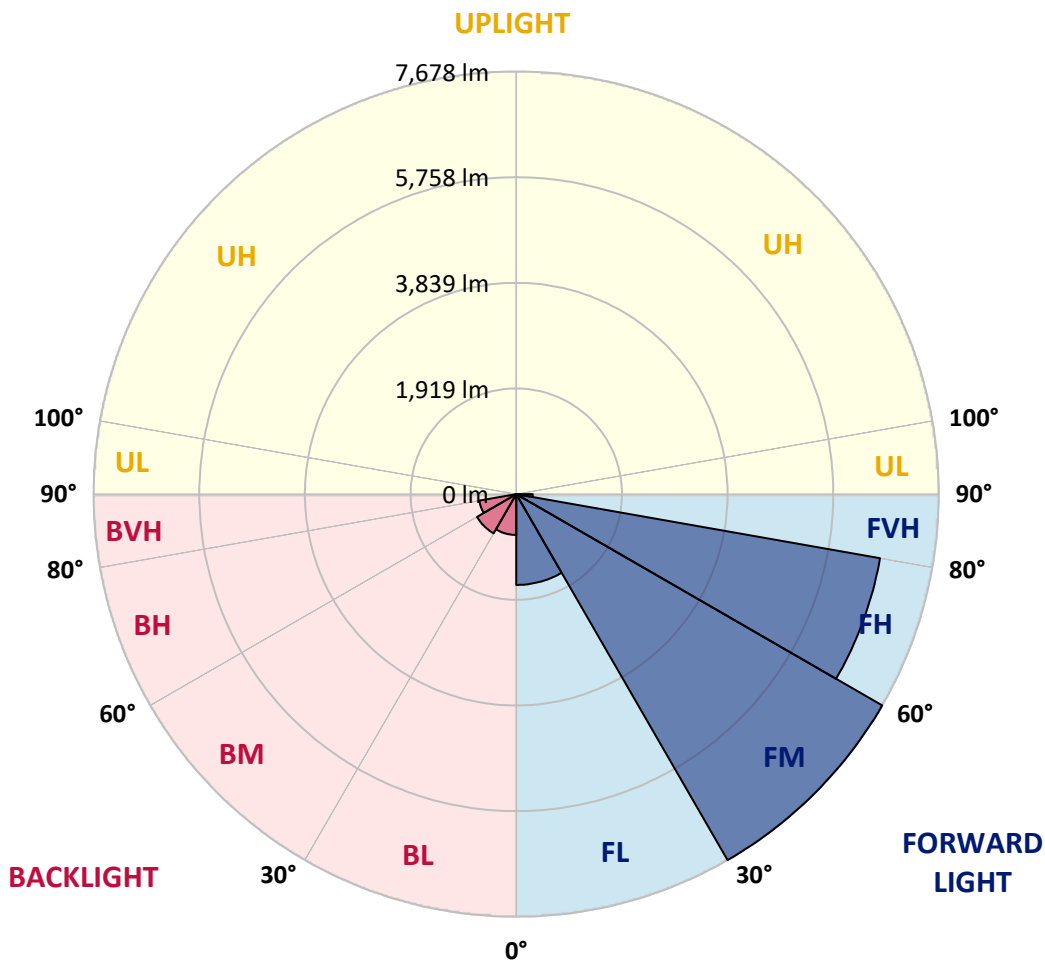


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1650.1	8.9			
FM (30°-60°)	7677.7	41.3			
FH (60°-80°)	6710.3	36.1			G3/7500
FVH (80°-90°)	300.5	1.6			G3/500
BL (0°-30°)	741.6	4.0	B2/1000		
BM (30°-60°)	823.1	4.4	B1/1000		
BH (60°-80°)	682.4	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°	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0
2.5°	4515.0	4550.1	4560.1	4595.2	4612.8	4688.0	4730.7	4755.8	4743.2	4770.8	4773.3
5°	4193.9	4173.8	4226.5	4264.1	4344.4	4474.8	4607.8	4710.6	4758.3	4803.4	4795.9
7.5°	3850.3	3840.2	3892.9	3978.2	4050.9	4209.0	4422.2	4675.5	4665.5	4775.8	4808.4
10°	3614.5	3624.5	3642.1	3727.4	3835.2	3995.7	4261.6	4497.4	4550.1	4783.4	4848.6
12.5°	3398.8	3416.3	3448.9	3536.7	3662.1	3827.7	4086.0	4362.0	4442.2	4740.7	4871.1
15°	3328.5	3288.4	3353.6	3418.8	3549.3	3697.3	3915.5	4259.1	4294.2	4690.5	4908.8
17.5°	3270.8	3245.8	3275.9	3328.5	3466.5	3586.9	3792.6	4148.8	4214.0	4670.5	4903.8
20°	3288.4	3265.8	3278.4	3318.5	3381.2	3494.1	3684.7	4043.4	4113.6	4577.7	4896.2
22.5°	3338.6	3356.1	3333.6	3343.6	3363.7	3421.3	3627.0	3968.2	4028.4	4560.1	4938.9
25°	3564.3	3534.2	3504.1	3491.6	3373.7	3398.8	3609.5	3963.1	4005.8	4497.4	4903.8
27.5°	3800.1	3775.0	3762.5	3689.7	3529.2	3454.0	3612.0	3892.9	3950.6	4472.3	4861.1
30°	4086.0	4118.7	4068.5	3980.7	3757.5	3571.8	3639.6	3857.8	3938.1	4377.0	4833.5
32.5°	4387.0	4404.6	4429.7	4364.5	4076.0	3749.9	3722.3	3890.4	3895.4	4377.0	4770.8
35°	4728.2	4703.1	4768.3	4773.3	4520.0	4066.0	3880.4	3913.0	3965.6	4356.9	4748.2
37.5°	5021.6	5064.3	5139.5	5259.9	4999.1	4512.5	4126.2	4018.3	4040.9	4449.8	4765.8
40°	5342.7	5385.4	5555.9	5676.3	5528.3	5014.1	4499.9	4264.1	4281.7	4587.7	4856.1
42.5°	5696.4	5779.2	5982.3	6193.0	6152.9	5651.2	4981.5	4625.3	4617.8	4931.3	5041.7
45°	6175.5	6285.8	6506.6	6749.9	6785.0	6381.2	5623.6	5164.6	5189.7	5380.3	5425.5
47.5°	6842.7	6837.7	7053.4	7324.3	7527.5	7138.7	6391.2	5889.5	5887.0	6090.2	5994.9
50°	7487.3	7489.8	7547.5	7861.1	8387.8	8189.6	7341.8	6852.7	6825.1	6925.5	6772.5
52.5°	7785.8	7750.7	7708.1	8086.8	9050.0	9514.0	8545.8	7943.8	7921.3	7861.1	7820.9
55°	7472.3	7484.8	7482.3	7876.1	9398.7	10911.2	10091.0	9145.3	9107.7	8919.6	8974.8
57.5°	6466.4	6426.3	6514.1	7128.6	8999.8	11864.3	12300.8	10660.3	10562.5	9937.9	9812.5
60°	4813.5	4826.0	4898.7	5623.6	8009.1	12065.0	14415.3	12438.7	12017.3	10655.3	10482.3
62.5°	3361.1	3336.1	3363.7	3770.0	5726.5	11262.3	15845.0	14600.9	14194.6	11470.5	11370.2
65°	2405.5	2372.9	2483.2	2731.6	3438.9	8611.0	16048.2	17480.4	17116.7	12772.3	12531.5
67.5°	1730.7	1725.7	1853.6	2305.1	2443.1	4958.9	14543.2	20089.1	19868.4	14317.5	13238.9
69°	1432.2	1434.8	1557.7	2064.3	2332.7	3386.2	12514.0	20538.1	20498.0	15115.1	13105.9
70°	1249.1	1259.2	1402.1	1921.4	2287.6	2784.2	10788.3	20096.6	20056.5	15270.6	12667.0
72.5°	770.1	777.6	965.7	1540.1	2174.7	2272.5	6451.4	16442.0	16580.0	14558.3	10913.7
75°	368.7	371.2	506.7	1113.7	2097.0	2154.6	3456.5	12132.7	12423.7	11754.0	8528.3
77.5°	195.6	195.6	243.3	592.0	1698.1	2026.7	2051.8	8558.4	8799.2	7432.1	4848.6
80°	97.8	100.3	148.0	308.5	1053.5	1986.6	1602.8	5104.4	5234.9	3032.6	1510.0
82.5°	37.6	40.1	70.2	185.6	546.8	1678.1	1407.2	2510.8	2478.2	709.9	368.7
85°	5.0	5.0	25.1	110.4	233.3	740.0	1161.4	1048.5	1013.4	155.5	178.1
87.5°	0.0	0.0	5.0	32.6	70.2	215.7	449.0	288.5	321.1	42.6	87.8
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°	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0	4688.0
2.5°	4760.8	4708.1	4627.8	4550.1	4467.3	4367.0	4256.6	4216.5	4146.2	4141.2	4181.4
5°	4755.8	4670.5	4530.0	4364.5	4128.7	3950.6	3757.5	3617.0	3509.1	3438.9	3456.5
7.5°	4780.8	4678.0	4434.7	4078.5	3775.0	3421.3	3122.9	2917.2	2729.0	2636.2	2626.2
10°	4740.7	4602.8	4246.6	3747.4	3300.9	2806.8	2370.4	2094.4	1813.5	1710.7	1715.7
12.5°	4763.3	4570.2	4043.4	3406.3	2791.8	2149.6	1627.9	1251.6	988.3	903.0	893.0
15°	4778.3	4499.9	3847.8	2997.4	2227.4	1464.9	943.1	709.9	627.1	612.0	609.5
17.5°	4720.6	4414.6	3571.8	2593.6	1650.5	890.5	627.1	579.4	564.4	554.3	549.3
20°	4718.1	4364.5	3333.6	2179.7	1101.2	607.0	541.8	524.2	501.7	494.1	494.1
22.5°	4675.5	4259.1	3047.6	1725.7	702.3	521.7	486.6	459.0	433.9	423.9	421.4
25°	4663.0	4136.2	2779.2	1296.8	534.3	466.5	431.4	391.3	361.2	346.1	338.6
27.5°	4627.8	4030.9	2508.3	913.0	466.5	416.4	371.2	328.6	293.5	270.9	268.4
30°	4502.4	3920.5	2207.3	632.1	423.9	368.7	318.6	268.4	233.3	218.2	213.2
32.5°	4449.8	3817.7	1878.7	486.6	386.3	326.1	268.4	223.2	195.6	180.6	178.1
35°	4387.0	3667.2	1560.2	423.9	351.2	283.4	225.7	188.1	165.5	153.0	153.0
37.5°	4394.6	3546.8	1261.7	383.8	313.5	243.3	193.1	160.5	140.5	127.9	127.9
40°	4372.0	3451.4	980.8	348.7	278.4	208.2	163.0	135.4	117.9	105.3	102.8
42.5°	4474.8	3426.4	740.0	318.6	243.3	178.1	140.5	115.4	97.8	82.8	82.8
45°	4647.9	3466.5	576.9	291.0	208.2	153.0	120.4	95.3	77.8	67.7	65.2
47.5°	5109.4	3624.5	451.5	268.4	178.1	132.9	100.3	77.8	62.7	52.7	50.2
50°	5779.2	3978.2	383.8	235.8	150.5	112.9	82.8	60.2	50.2	40.1	37.6
52.5°	6732.3	4572.7	348.7	208.2	125.4	92.8	65.2	47.7	37.6	30.1	27.6
55°	7770.8	5315.1	316.0	175.6	105.3	75.2	52.7	37.6	27.6	20.1	17.6
57.5°	8580.9	5957.2	288.5	145.5	85.3	60.2	40.1	27.6	20.1	12.5	10.0
60°	9466.4	6408.7	253.3	115.4	70.2	45.1	30.1	20.1	15.0	7.5	7.5
62.5°	10379.4	6938.0	208.2	90.3	55.2	35.1	22.6	15.0	10.0	2.5	2.5
65°	11648.6	7351.9	160.5	70.2	42.6	25.1	17.6	12.5	5.0	0.0	0.0
67.5°	12007.3	7148.7	117.9	55.2	30.1	17.6	12.5	7.5	2.5	0.0	0.0
69°	11648.6	6438.8	102.8	47.7	25.1	15.0	10.0	5.0	2.5	0.0	0.0
70°	10993.9	5887.0	90.3	40.1	22.6	15.0	7.5	5.0	2.5	0.0	0.0
72.5°	9195.5	4515.0	70.2	30.1	17.6	12.5	7.5	5.0	0.0	0.0	0.0
75°	6744.9	2789.2	52.7	22.6	15.0	10.0	7.5	5.0	0.0	0.0	0.0
77.5°	3614.5	1018.4	37.6	15.0	10.0	7.5	7.5	5.0	0.0	0.0	0.0
80°	990.8	301.0	27.6	10.0	7.5	5.0	5.0	2.5	0.0	0.0	0.0
82.5°	270.9	77.8	17.6	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	145.5	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)