

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: P484965

Luminaire Tested: **IFLD-M-SA4D-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484965
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

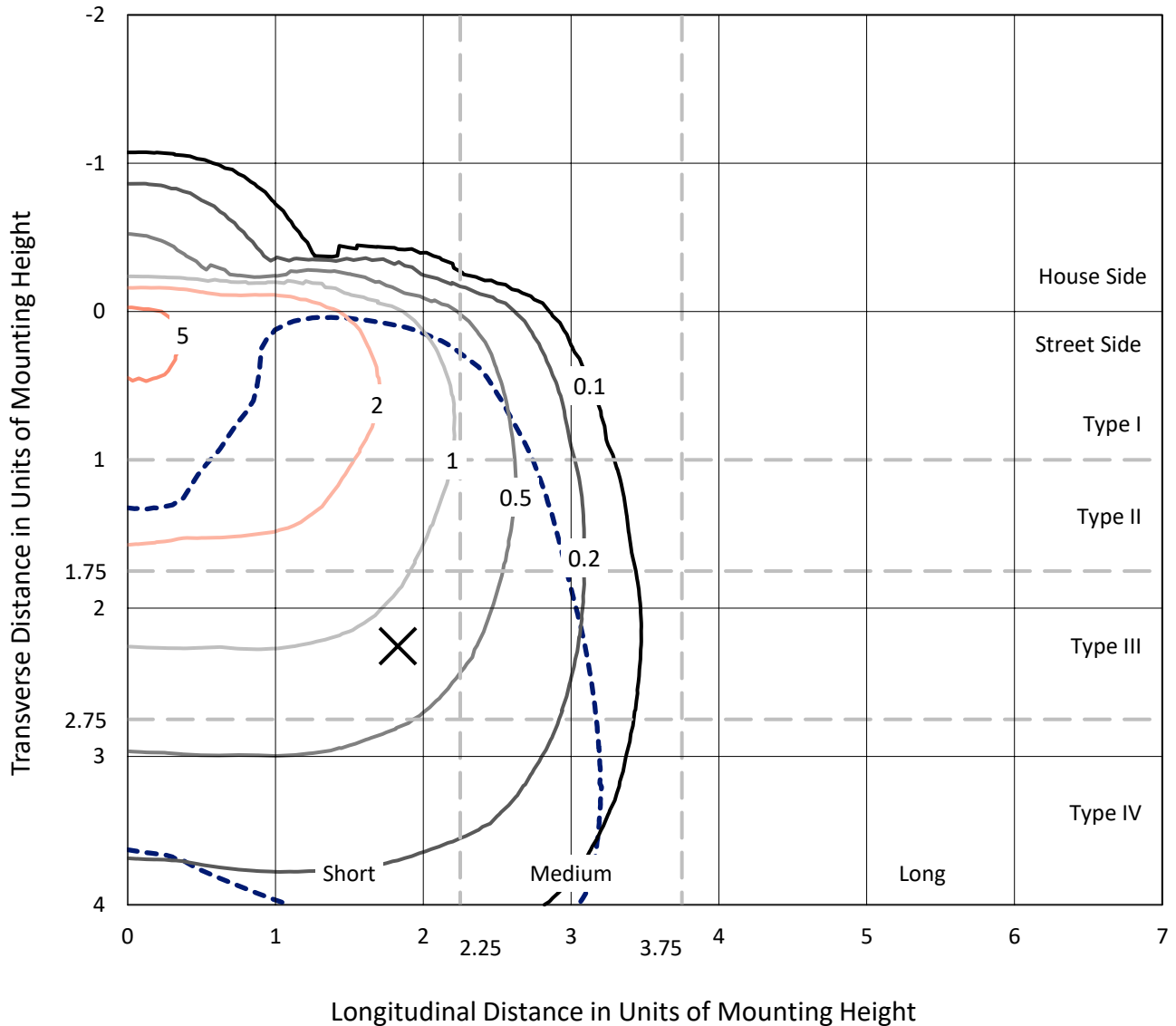
Lumens per Lamp: N/A
Luminaire Lumens: 20535.8 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

REPORT NUMBER: P484965
 CATALOG NUMBER: IFLD-M-SA4D-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

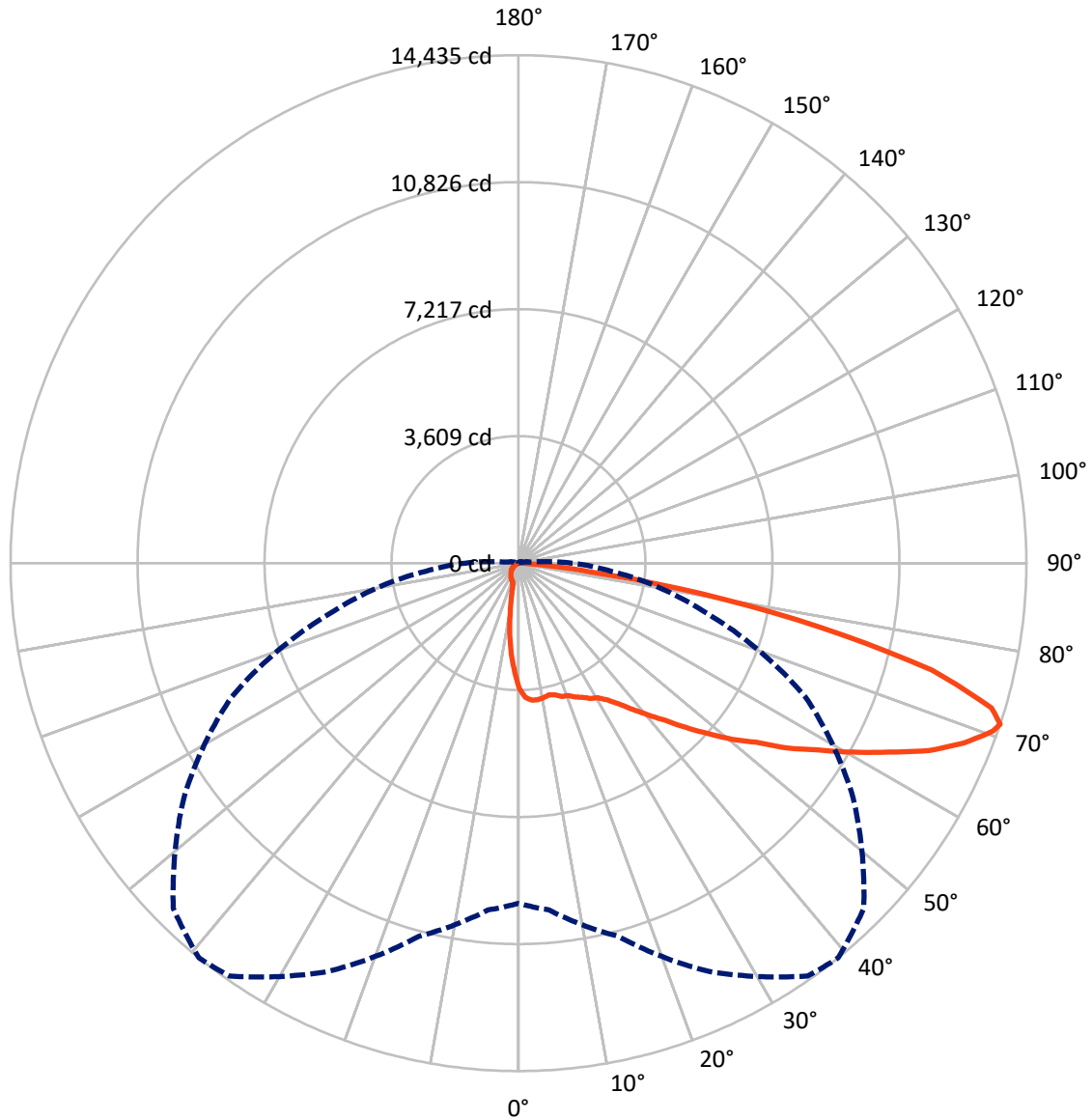
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P484965
CATALOG NUMBER: IFLD-M-SA4D-830-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484965
 CATALOG NUMBER: IFLD-M-SA4D-830-U-SL4-HSS

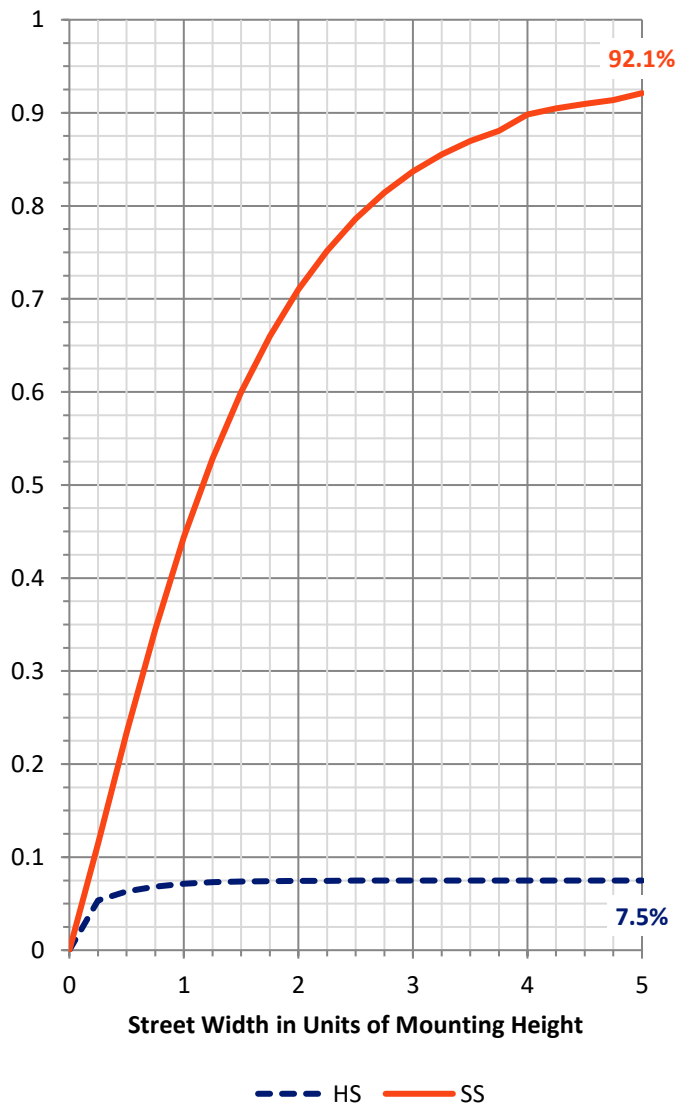
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1546.0	0.0	1546.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	18989.8	0.0	18989.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	20535.8	0.0	20535.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.8	1.5
10°-20°	735.6	3.6
20°-30°	1180.8	5.7
30°-40°	1807.5	8.8
40°-50°	2901.4	14.1
50°-60°	4261.7	20.8
60°-70°	5367.5	26.1
70°-80°	3582.1	17.4
80°-90°	400.3	1.9
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°	20535.8	100.0
0°-180°	20535.8	100.0

Coefficient of Utilization



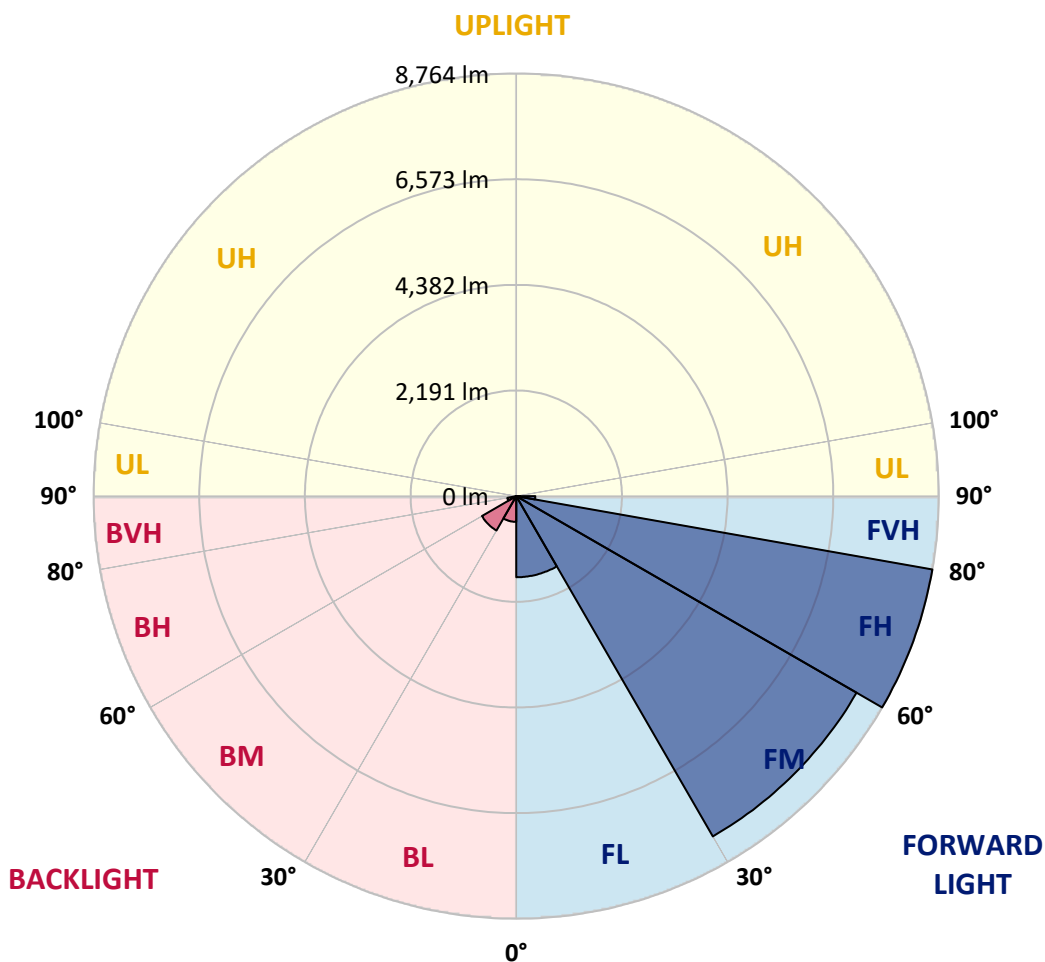
REPORT NUMBER: P484965
 CATALOG NUMBER: IFLD-M-SA4D-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1681.4	8.2			
FM (30°-60°)	8148.9	39.7			
FH (60°-80°)	8763.5	42.7			G4/12000
FVH (80°-90°)	395.9	1.9			G3/500
BL (0°-30°)	533.8	2.6	B2/1000		
BM (30°-60°)	821.8	4.0	B1/1000		
BH (60°-80°)	186.1	0.9	B1/500		G1/500
BVH (80°-90°)	4.4	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-G4

Type IV Short





REPORT NUMBER: P484965

CATALOG NUMBER: IFLD-M-SA4D-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4
2.5°	3851.8	3889.5	3851.8	3835.7	3819.5	3822.2	3779.1	3787.2	3736.0	3668.7	3614.8
5°	3973.0	4024.2	3983.8	3965.0	3962.3	3911.1	3889.5	3838.4	3776.4	3671.4	3606.7
7.5°	3962.3	3951.5	3970.3	3954.2	3919.2	3919.2	3894.9	3822.2	3760.2	3641.7	3531.3
10°	3881.5	3913.8	3897.6	3878.8	3886.8	3889.5	3843.7	3792.6	3773.7	3655.2	3474.7
12.5°	3873.4	3819.5	3878.8	3881.5	3846.4	3843.7	3838.4	3824.9	3765.6	3657.9	3488.2
15°	3846.4	3824.9	3884.1	3886.8	3894.9	3886.8	3894.9	3884.1	3824.9	3762.9	3547.5
17.5°	3868.0	3843.7	3927.2	3967.7	3948.8	3986.5	3973.0	3924.6	3873.4	3800.6	3604.0
20°	3873.4	3908.4	4000.0	4016.1	4075.4	4013.4	4010.7	3959.6	3927.2	3849.1	3639.0
22.5°	3973.0	3989.2	4102.3	4137.3	4140.0	4132.0	4064.6	4005.4	3991.9	3894.9	3647.1
25°	4123.9	4180.4	4231.6	4253.2	4261.3	4223.5	4153.5	4078.1	4045.8	3983.8	3730.6
27.5°	4390.5	4355.5	4401.3	4433.6	4342.1	4355.5	4266.6	4202.0	4156.2	4102.3	3827.6
30°	4627.6	4595.3	4597.9	4592.6	4514.4	4441.7	4417.5	4304.3	4247.8	4269.3	3978.4
32.5°	4840.4	4770.3	4829.6	4802.7	4657.2	4635.7	4616.8	4474.0	4484.8	4584.5	4204.7
35°	5037.0	5012.8	5061.2	5012.8	4915.8	4910.4	4891.6	4767.6	4826.9	4969.7	4592.6
37.5°	5217.5	5225.6	5284.8	5260.6	5268.7	5274.0	5263.3	5131.3	5301.0	5621.5	5045.1
40°	5384.5	5373.7	5519.2	5594.6	5610.7	5670.0	5670.0	5637.7	5899.0	6259.9	5672.7
42.5°	5562.3	5589.2	5777.7	5904.3	6057.9	6109.1	6179.1	6195.2	6599.3	7011.4	6313.8
45°	5853.2	5807.4	6047.1	6346.1	6480.8	6661.2	6769.0	6860.6	7348.1	7913.8	6954.8
47.5°	6222.2	6130.6	6340.7	6774.4	7086.8	7235.0	7428.9	7550.1	8026.9	8611.4	7560.9
50°	6631.6	6537.3	6639.7	7237.7	7601.3	7870.7	8118.5	8272.0	8848.4	9392.5	8002.6
52.5°	7094.9	7008.7	7024.9	7719.8	8255.8	8452.5	8778.4	9007.3	9581.1	9863.9	8158.9
55°	7587.8	7566.3	7515.1	8191.2	8829.6	9271.3	9468.0	9742.7	10332.6	10119.8	8328.6
57.5°	8083.4	8016.1	8088.8	8816.1	9750.8	10014.7	10286.8	10451.1	10750.1	10343.4	8263.9
60°	8549.4	8554.8	8657.2	9494.9	10534.6	10909.0	11154.1	11054.5	11178.4	10440.3	8115.8
62.5°	8942.7	8931.9	9190.5	10257.2	11571.6	11824.8	12008.0	11563.6	11377.7	10534.6	7857.2
65°	9295.6	9416.8	9823.5	11164.9	12546.7	12837.6	12727.2	12045.7	11571.6	10257.2	7129.9
67.5°	9562.2	9742.7	10448.4	12018.8	13441.0	13645.7	13492.2	12412.0	11342.7	9169.0	5807.4
70°	9718.5	9901.6	10895.6	12729.9	14154.8	14302.9	13942.0	12129.2	10006.7	6639.7	3622.9
71°	9670.0	9893.5	10981.7	12805.3	14324.5	14434.9	13874.7	11606.7	8999.3	5559.6	2642.4
72.5°	9230.9	9441.0	10623.5	12751.4	14119.8	14052.4	13349.4	10351.4	7084.1	3544.8	1365.6
75°	6782.4	7008.7	9117.8	11030.2	12603.3	12140.0	10804.0	7264.6	3695.6	1085.5	398.7
77.5°	3377.8	3415.5	5659.2	8008.0	9244.4	8783.8	7240.4	4051.2	1381.8	320.5	199.3
80°	1556.9	1567.7	2122.5	4148.1	5589.2	5260.6	4056.5	1998.6	624.9	169.7	156.2
82.5°	1061.3	1077.4	1279.5	1718.5	2426.9	2047.1	1643.1	1279.5	358.2	102.4	153.5
85°	193.9	177.8	716.5	910.4	937.4	635.7	568.3	1107.1	134.7	59.3	134.7
87.5°	0.0	2.7	99.7	371.7	334.0	148.1	193.9	269.4	13.5	18.9	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484965

CATALOG NUMBER: IFLD-M-SA4D-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4	3574.4
2.5°	3569.0	3539.4	3439.7	3329.3	3229.6	3151.5	3051.8	3006.0	2933.3	2892.9	2890.2
5°	3517.8	3437.0	3264.6	3078.8	2871.4	2699.0	2507.7	2400.0	2276.1	2238.4	2230.3
7.5°	3431.6	3315.8	3062.6	2801.3	2483.5	2179.1	1944.8	1694.3	1540.7	1476.1	1451.8
10°	3377.8	3237.7	2892.9	2502.3	2057.9	1629.6	1301.0	1034.3	894.3	826.9	810.8
12.5°	3377.8	3226.9	2755.5	2216.8	1626.9	1115.1	805.4	651.8	606.1	589.9	589.9
15°	3369.7	3205.4	2623.6	1923.2	1204.0	748.8	600.7	568.3	563.0	560.3	557.6
17.5°	3410.1	3167.7	2488.9	1608.1	851.2	589.9	552.2	546.8	541.4	541.4	536.0
20°	3439.7	3146.1	2327.3	1274.1	635.7	546.8	530.6	522.6	519.9	517.2	522.6
22.5°	3415.5	3113.8	2127.9	953.5	554.9	519.9	509.1	501.0	495.6	495.6	498.3
25°	3461.3	3084.2	1928.6	719.2	519.9	495.6	484.8	479.5	476.8	474.1	468.7
27.5°	3523.2	3097.6	1691.6	579.1	490.2	471.4	460.6	455.2	452.5	447.1	452.5
30°	3598.6	3094.9	1430.3	506.4	463.3	444.4	433.7	431.0	425.6	422.9	425.6
32.5°	3727.9	3165.0	1160.9	468.7	433.7	417.5	406.7	404.0	401.3	398.7	396.0
35°	4005.4	3251.2	907.7	439.1	406.7	387.9	379.8	374.4	371.7	369.0	366.3
37.5°	4347.4	3442.4	692.3	412.1	379.8	360.9	352.9	350.2	339.4	336.7	334.0
40°	4775.7	3647.1	533.3	382.5	355.6	336.7	328.6	320.5	307.1	301.7	296.3
42.5°	5309.1	3846.4	439.1	355.6	328.6	315.1	301.7	288.2	277.4	266.7	261.3
45°	5842.4	4078.1	385.2	331.3	307.1	290.9	280.1	261.3	242.4	226.3	223.6
47.5°	6286.8	4161.6	352.9	304.4	285.5	272.1	255.9	231.6	204.7	188.6	185.9
50°	6618.1	4113.1	320.5	277.4	261.3	247.8	226.3	196.6	169.7	153.5	148.1
52.5°	6682.8	3900.3	290.9	255.9	237.0	220.9	196.6	164.3	134.7	118.5	115.8
55°	6637.0	3547.5	266.7	237.0	215.5	191.2	164.3	132.0	105.0	88.9	86.2
57.5°	6542.7	3129.9	239.7	212.8	188.6	164.3	134.7	107.7	78.1	62.0	62.0
60°	6222.2	2561.6	212.8	185.9	161.6	140.1	110.4	78.1	53.9	40.4	37.7
62.5°	5775.0	1969.0	185.9	158.9	140.1	115.8	86.2	56.6	32.3	21.5	21.5
65°	4958.9	1379.1	156.2	132.0	115.8	94.3	64.6	35.0	18.9	8.1	8.1
67.5°	3768.3	853.9	129.3	110.4	99.7	75.4	45.8	21.5	8.1	2.7	0.0
70°	2162.9	444.4	102.4	88.9	78.1	56.6	32.3	10.8	5.4	0.0	0.0
71°	1511.1	328.6	91.6	78.1	70.0	51.2	26.9	8.1	2.7	0.0	0.0
72.5°	756.9	218.2	78.1	64.6	56.6	40.4	21.5	8.1	2.7	0.0	0.0
75°	269.4	140.1	53.9	43.1	40.4	29.6	13.5	5.4	2.7	0.0	0.0
77.5°	185.9	113.1	37.7	26.9	26.9	18.9	8.1	2.7	2.7	0.0	0.0
80°	169.7	62.0	24.2	16.2	13.5	10.8	5.4	2.7	0.0	0.0	0.0
82.5°	169.7	45.8	13.5	10.8	8.1	5.4	2.7	0.0	0.0	0.0	0.0
85°	118.5	24.2	8.1	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	8.1	5.4	2.7	2.7	0.0	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)