

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: P480753

Luminaire Tested: **IFLD-M-SA4D-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480753
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

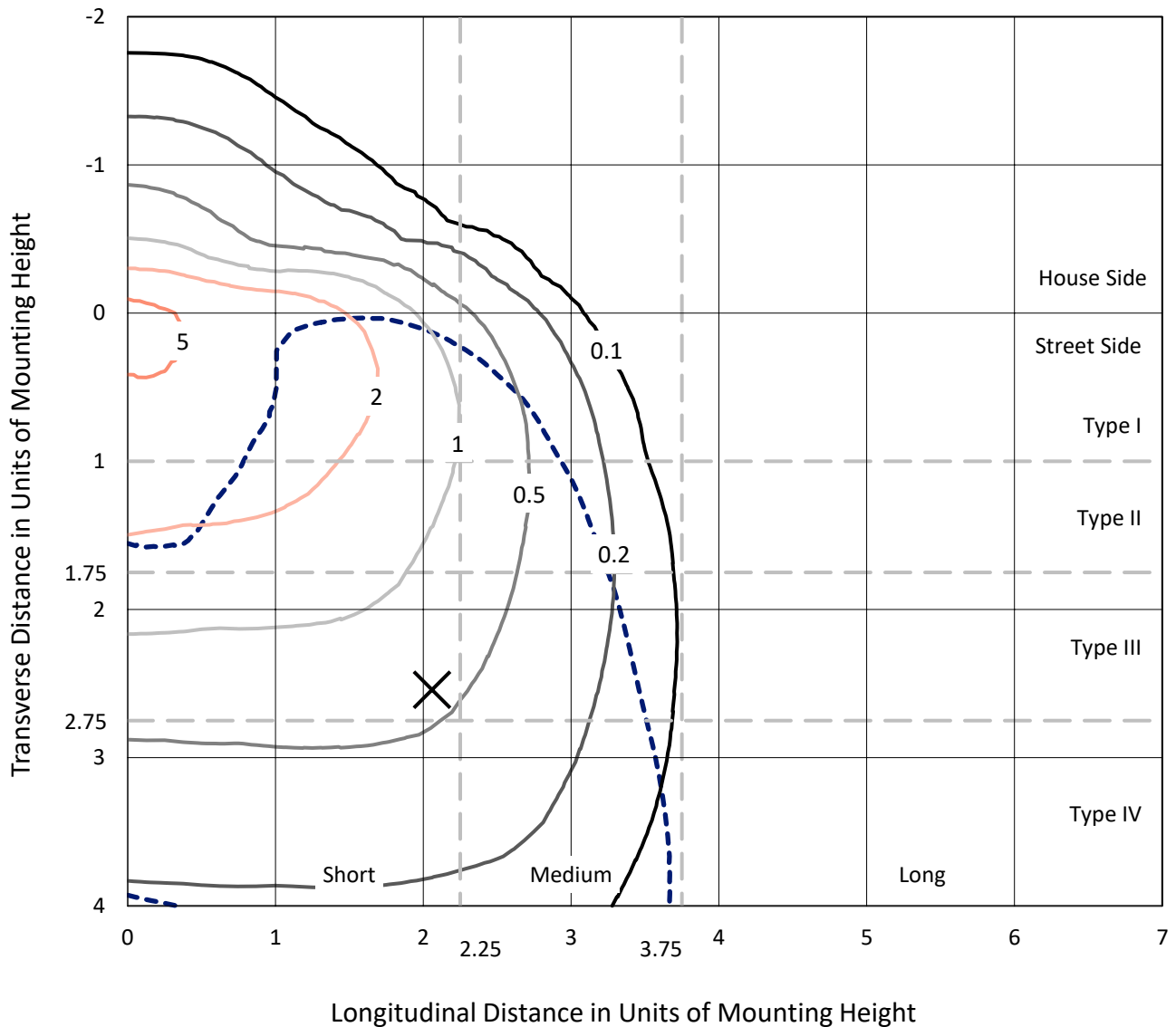
Lumens per Lamp: N/A
Luminaire Lumens: 22289.7 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

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 CATALOG NUMBER: IFLD-M-SA4D-722-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

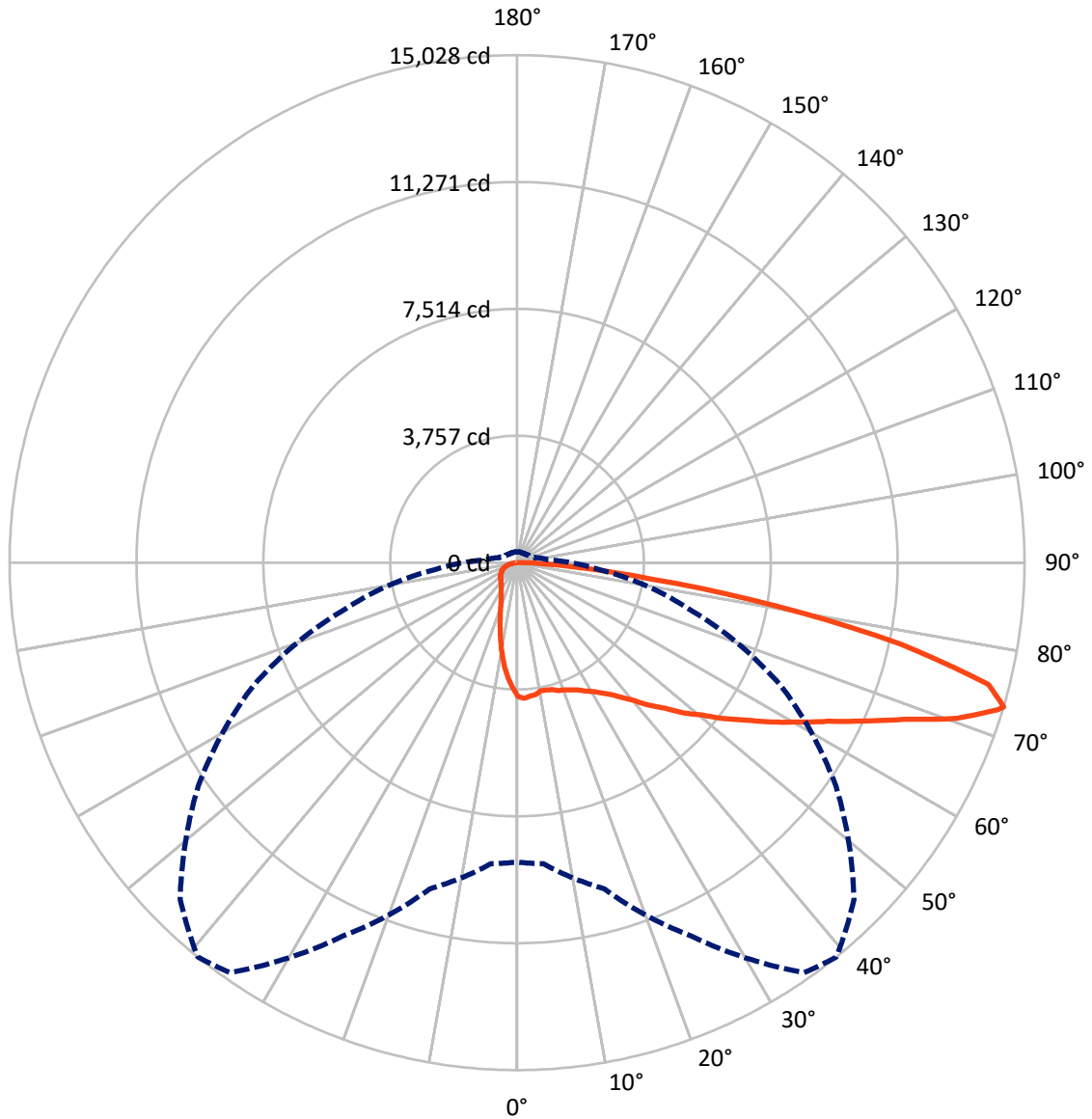
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P480753
CATALOG NUMBER: IFLD-M-SA4D-722-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3133.3	0.0	3133.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19156.4	0.0	19156.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	22289.7	0.0	22289.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.4	1.5
10°-20°	875.6	3.9
20°-30°	1338.0	6.0
30°-40°	1950.8	8.8
40°-50°	2947.9	13.2
50°-60°	4268.7	19.2
60°-70°	5423.6	24.3
70°-80°	4396.7	19.7
80°-90°	743.9	3.3
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°	22289.7	100.0
0°-180°	22289.7	100.0

Coefficient of Utilization



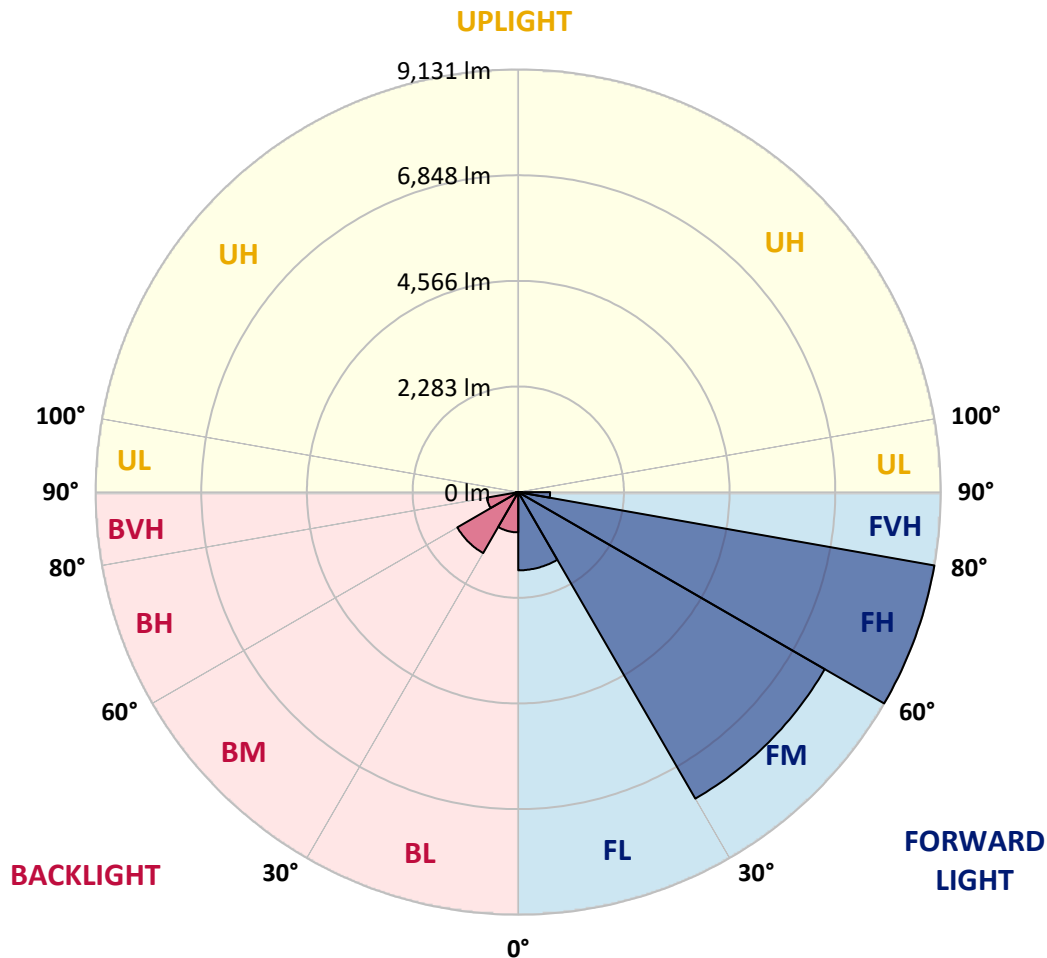
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1689.1	7.6			
FM (30°-60°)	7646.8	34.3			
FH (60°-80°)	9131.2	41.0			G4/12000
FVH (80°-90°)	689.3	3.1			G4/750
BL (0°-30°)	868.9	3.9	B2/1000		
BM (30°-60°)	1520.7	6.8	B2/2500		
BH (60°-80°)	689.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	54.6	0.2			G1/100
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





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 CATALOG NUMBER: IFLD-M-SA4D-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7
2.5°	4062.5	4020.1	4027.6	4012.6	4027.6	4022.6	4015.1	3977.7	4015.1	3977.7	3967.7
5°	4007.6	4007.6	4032.6	3995.1	4000.1	3975.2	4000.1	3972.7	3947.8	3885.4	3868.0
7.5°	3990.2	3987.7	3990.2	3937.8	3962.7	3947.8	3922.8	3892.9	3843.0	3803.1	3745.8
10°	3870.5	3895.4	3868.0	3882.9	3902.9	3858.0	3855.5	3848.0	3825.6	3773.2	3738.3
12.5°	3805.6	3848.0	3863.0	3850.5	3868.0	3872.9	3858.0	3848.0	3820.6	3785.7	3685.9
15°	3833.0	3783.2	3825.6	3907.9	3890.4	3902.9	3905.4	3895.4	3882.9	3818.1	3753.2
17.5°	3840.5	3810.6	3900.4	3917.8	3940.3	3985.2	3955.2	3952.7	3905.4	3860.5	3765.7
20°	3858.0	3845.5	3917.8	4010.1	4012.6	4020.1	4035.0	3997.6	3972.7	3895.4	3750.7
22.5°	3922.8	3965.2	4032.6	4072.5	4094.9	4099.9	4099.9	4025.1	3997.6	3935.3	3820.6
25°	4117.3	4072.5	4167.2	4214.6	4182.2	4174.7	4157.2	4089.9	4060.0	4005.1	3853.0
27.5°	4259.5	4257.0	4311.9	4376.7	4289.4	4306.9	4244.5	4224.6	4157.2	4127.3	3910.4
30°	4454.0	4508.9	4506.4	4526.3	4411.6	4431.6	4351.8	4314.4	4276.9	4294.4	4079.9
32.5°	4703.4	4683.4	4715.9	4700.9	4586.2	4603.6	4508.9	4451.5	4464.0	4516.4	4311.9
35°	4863.0	4843.1	4855.5	4855.5	4820.6	4800.7	4760.8	4685.9	4745.8	4843.1	4571.2
37.5°	5035.1	5060.0	5132.3	5117.4	5072.5	5072.5	5067.5	5015.1	5092.4	5331.8	4985.2
40°	5187.2	5254.5	5299.4	5329.4	5381.7	5381.7	5424.1	5394.2	5533.8	5917.9	5491.5
42.5°	5346.8	5349.3	5593.7	5616.1	5733.4	5783.2	5815.7	5840.6	6102.4	6531.4	6032.6
45°	5551.3	5563.8	5778.2	5950.3	6132.4	6149.8	6272.0	6354.3	6676.0	7202.2	6621.2
47.5°	5820.6	5805.7	6035.1	6309.4	6536.4	6656.1	6803.2	6893.0	7289.5	7930.4	7264.6
50°	6174.8	6129.9	6262.1	6693.5	6960.3	7092.5	7354.4	7504.0	7967.8	8626.2	7706.0
52.5°	6606.2	6531.4	6636.1	7107.5	7406.7	7673.6	7923.0	8090.0	8573.8	9164.9	8032.7
55°	7062.6	6908.0	6937.9	7546.4	7977.8	8229.7	8571.4	8745.9	9239.7	9648.7	8359.4
57.5°	7514.0	7416.7	7356.8	7967.8	8658.6	8900.5	9214.8	9441.7	9860.7	10077.6	8636.2
60°	7893.0	7868.1	7770.8	8621.2	9379.4	9586.3	9915.5	10055.2	10371.9	10474.2	8641.2
62.5°	8204.8	8120.0	8274.6	9147.4	10112.6	10347.0	10708.6	10721.0	10945.5	10721.0	8386.8
65°	8449.2	8454.1	8701.0	9783.4	10960.5	11307.1	11598.9	11566.5	11421.8	10573.9	7785.8
67.5°	8671.1	8765.9	9127.5	10481.6	12050.3	12377.0	12701.2	12272.2	11551.5	9885.6	6611.2
70°	8845.7	8940.4	9703.6	11332.0	13334.6	13813.4	13885.7	12551.5	10955.5	8374.3	4987.7
72.5°	8825.7	8997.8	10030.3	12010.4	14474.3	14888.3	14304.7	11766.0	9127.5	5838.1	2910.3
73°	8868.1	8952.9	10002.8	12199.9	14820.9	15027.9	14110.2	11519.1	8608.8	5237.1	2461.4
75°	8050.1	8336.9	9506.5	11890.7	14449.4	14411.9	12992.9	9598.8	6119.9	2750.7	1192.1
77.5°	5955.3	6137.4	7491.5	9778.4	11860.7	11621.3	9800.8	6134.9	2905.3	1020.0	643.4
80°	2910.3	3052.5	3970.2	5646.1	7755.9	7775.8	6082.5	3192.1	1244.4	576.1	438.9
82.5°	1453.9	1538.7	1907.8	2481.4	3815.6	3997.6	3084.9	1815.5	770.6	326.7	249.4
85°	950.2	1010.0	1174.6	1214.5	1618.5	1708.3	1436.5	1416.5	501.3	177.1	202.0
87.5°	630.9	640.9	720.7	613.5	648.4	623.5	693.3	892.8	147.1	74.8	54.9
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°	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7	3967.7
2.5°	3955.2	3920.3	3882.9	3830.5	3793.1	3735.8	3683.4	3661.0	3656.0	3658.5	3633.5
5°	3853.0	3803.1	3728.3	3621.1	3558.7	3464.0	3384.2	3341.8	3296.9	3304.3	3284.4
7.5°	3710.8	3656.0	3541.3	3416.6	3262.0	3127.3	3052.5	2947.7	2887.9	2843.0	2867.9
10°	3666.0	3571.2	3399.1	3227.0	2987.6	2810.6	2638.5	2518.8	2436.5	2356.7	2391.6
12.5°	3643.5	3548.7	3309.3	3055.0	2745.7	2476.4	2234.5	2087.4	1970.1	1900.3	1927.7
15°	3623.6	3506.3	3224.5	2865.4	2518.8	2164.7	1892.8	1698.3	1586.1	1518.8	1526.2
17.5°	3651.0	3483.9	3099.9	2680.9	2269.4	1890.3	1588.6	1386.6	1271.9	1229.5	1219.5
20°	3623.6	3459.0	2977.7	2496.3	2020.0	1628.5	1339.2	1172.1	1092.3	1057.4	1049.9
22.5°	3633.5	3399.1	2850.5	2291.8	1788.1	1409.0	1172.1	1044.9	982.6	965.1	970.1
25°	3680.9	3364.2	2723.3	2067.4	1558.7	1246.9	1064.9	967.6	922.7	905.3	910.3
27.5°	3715.8	3394.1	2608.6	1855.4	1364.1	1102.3	975.1	910.3	880.3	867.9	865.4
30°	3803.1	3411.6	2496.3	1665.9	1204.5	1007.5	912.7	860.4	840.4	832.9	830.5
32.5°	3932.8	3444.0	2366.7	1491.3	1087.3	917.7	862.9	818.0	813.0	805.5	808.0
35°	4144.8	3556.2	2222.0	1341.7	975.1	857.9	810.5	780.6	780.6	780.6	788.1
37.5°	4449.0	3713.3	2092.3	1199.5	902.8	805.5	765.6	755.6	750.6	758.1	763.1
40°	4840.6	3902.9	1987.6	1087.3	840.4	770.6	735.7	730.7	728.2	725.7	730.7
42.5°	5269.5	4144.8	1897.8	1000.0	795.5	733.2	708.3	703.3	693.3	698.3	705.8
45°	5695.9	4444.0	1818.0	930.2	765.6	713.2	678.3	675.8	670.8	668.4	680.8
47.5°	6169.8	4738.3	1793.1	887.8	743.2	683.3	658.4	655.9	640.9	638.4	648.4
50°	6538.9	4955.3	1820.5	867.9	710.7	660.9	643.4	630.9	618.5	606.0	606.0
52.5°	6793.2	5104.9	1840.5	852.9	693.3	630.9	608.5	603.5	591.0	578.6	573.6
55°	7022.7	5194.7	1845.4	855.4	675.8	596.0	581.1	578.6	571.1	551.1	546.2
57.5°	7100.0	5157.3	1745.7	832.9	665.9	573.6	553.6	558.6	548.6	531.2	528.7
60°	7092.5	4897.9	1518.8	803.0	643.4	548.6	523.7	538.7	538.7	518.7	516.2
62.5°	6661.1	4299.4	1241.9	745.7	618.5	523.7	496.3	518.7	526.2	513.7	511.2
65°	5765.8	3501.4	1037.4	688.3	581.1	496.3	468.8	493.8	506.3	501.3	498.8
67.5°	4770.7	2678.4	862.9	613.5	533.7	458.9	436.4	453.9	461.4	463.9	466.3
70°	3371.7	1783.1	720.7	531.2	468.8	419.0	394.0	396.5	394.0	401.5	401.5
72.5°	1833.0	1027.5	586.1	451.4	404.0	364.1	346.6	334.2	334.2	331.7	331.7
73°	1568.6	922.7	558.6	438.9	386.5	354.1	334.2	324.2	324.2	321.7	319.2
75°	880.3	675.8	478.8	376.6	334.2	309.2	294.3	279.3	276.8	276.8	276.8
77.5°	578.6	526.2	381.6	301.8	269.3	246.9	241.9	226.9	226.9	226.9	224.4
80°	433.9	414.0	294.3	229.4	207.0	189.5	184.5	174.6	172.1	162.1	164.6
82.5°	289.3	326.7	214.5	162.1	139.7	129.7	129.7	127.2	119.7	107.2	107.2
85°	229.4	266.8	154.6	99.8	82.3	69.8	72.3	69.8	67.3	54.9	52.4
87.5°	42.4	107.2	44.9	27.4	20.0	12.5	12.5	7.5	5.0	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)