

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: P480907

Luminaire Tested: **IFLD-M-SA4B-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480907
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

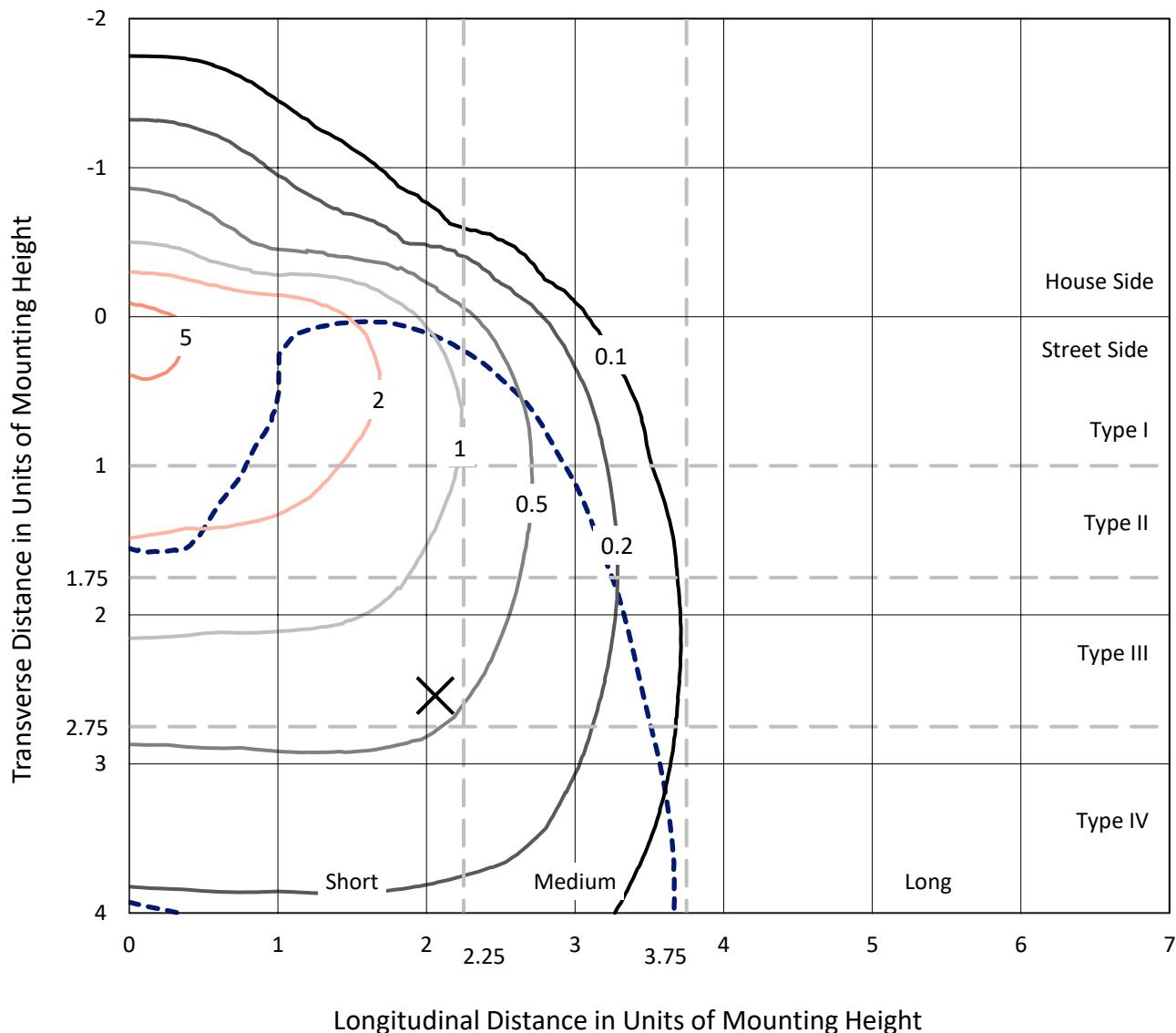
Lumens per Lamp: N/A
Luminaire Lumens: 22092.1 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

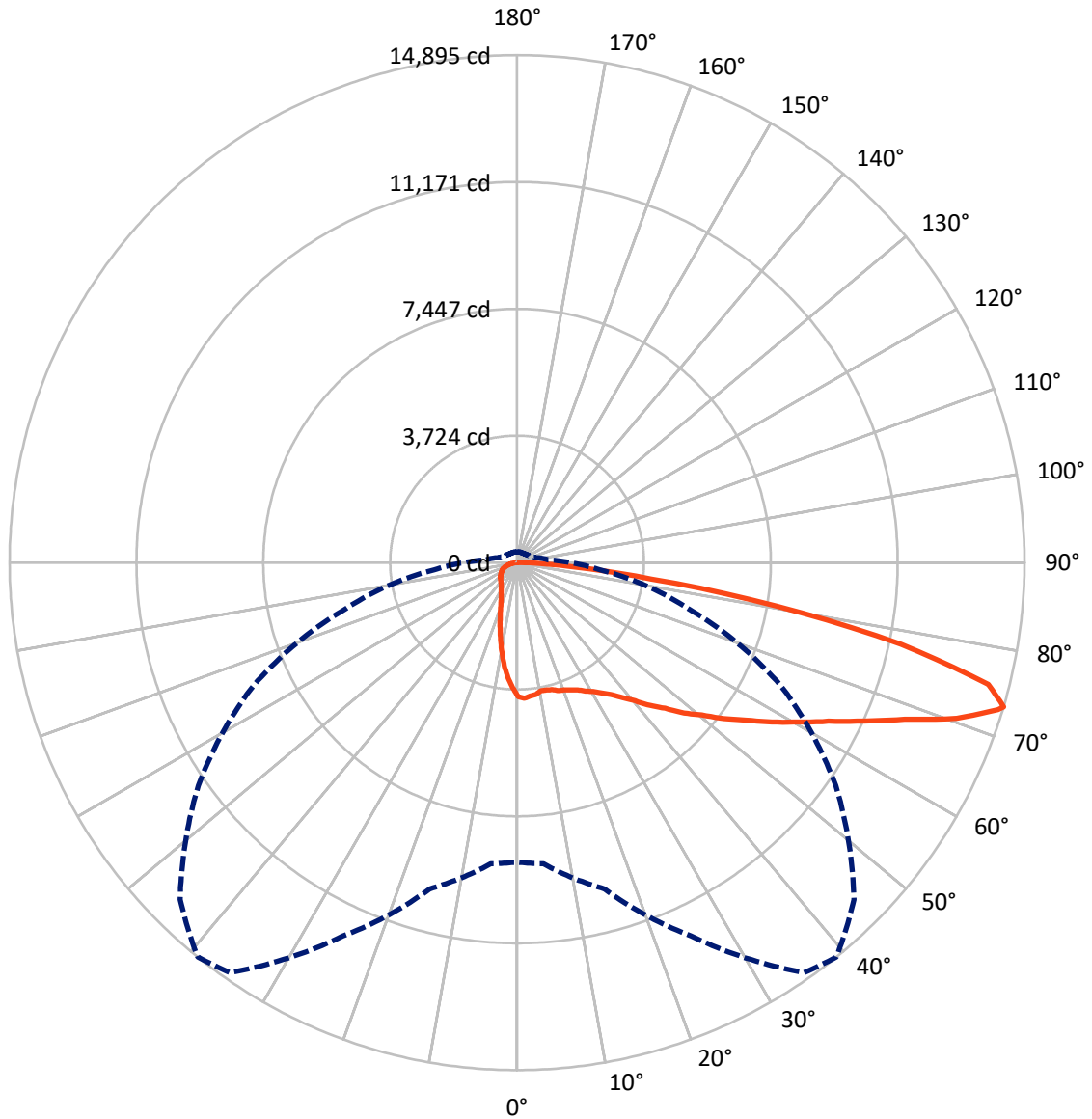
× Max cd
 - - - 1/2 Max cd



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

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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	3105.5	0.0	3105.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	18986.6	0.0	18986.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	22092.1	0.0	22092.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	1.5
10°-20°	867.8	3.9
20°-30°	1326.1	6.0
30°-40°	1933.5	8.8
40°-50°	2921.8	13.2
50°-60°	4230.9	19.2
60°-70°	5375.6	24.3
70°-80°	4357.7	19.7
80°-90°	737.3	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°	22092.1	100.0
0°-180°	22092.1	100.0

Coefficient of Utilization



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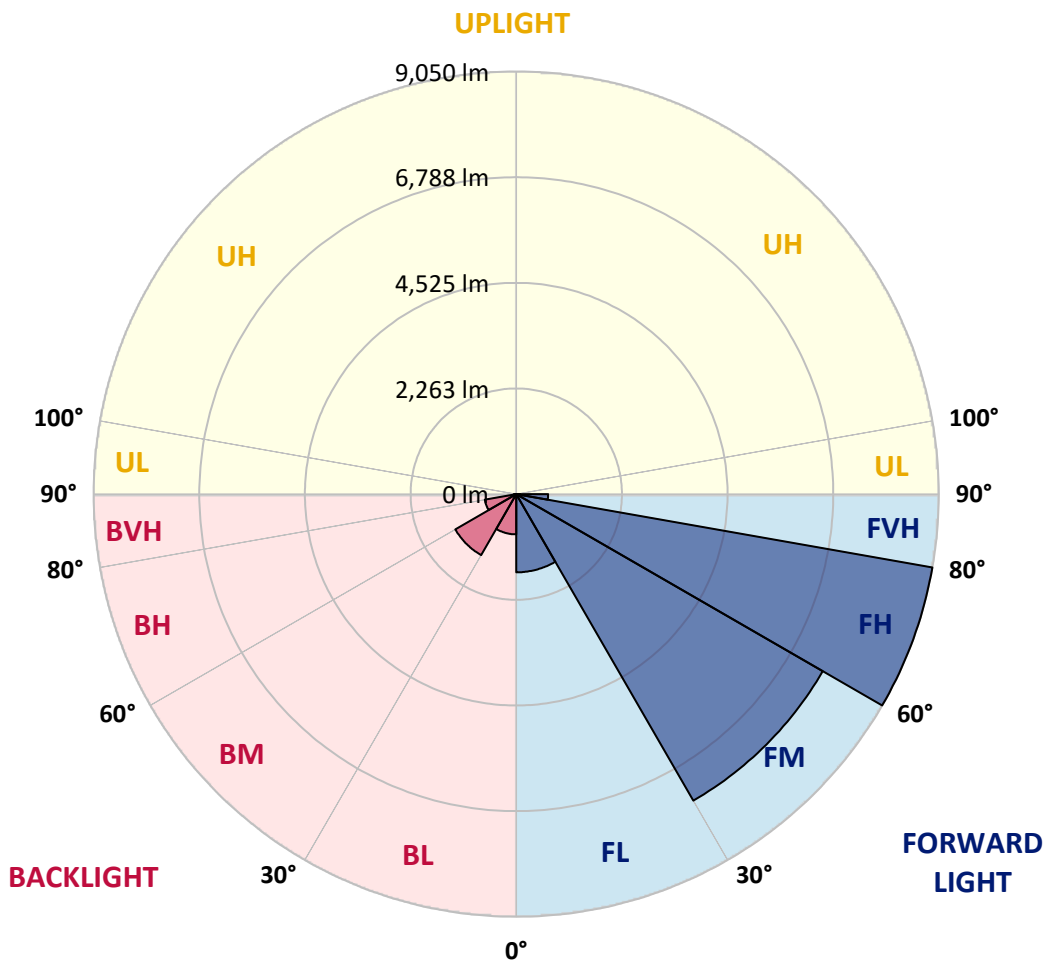
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1674.1	7.6			
FM (30°-60°)	7579.0	34.3			
FH (60°-80°)	9050.3	41.0			G4/12000
FVH (80°-90°)	683.2	3.1			G4/750
BL (0°-30°)	861.2	3.9	B2/1000		
BM (30°-60°)	1507.2	6.8	B2/2500		
BH (60°-80°)	683.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	54.1	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5
2.5°	4026.5	3984.4	3991.9	3977.0	3991.9	3986.9	3979.5	3942.4	3979.5	3942.4	3932.5
5°	3972.1	3972.1	3996.8	3959.7	3964.7	3939.9	3964.7	3937.5	3912.8	3851.0	3833.7
7.5°	3954.8	3952.3	3954.8	3902.9	3927.6	3912.8	3888.0	3858.4	3808.9	3769.4	3712.6
10°	3836.1	3860.9	3833.7	3848.5	3868.3	3823.8	3821.3	3813.9	3791.6	3739.7	3705.1
12.5°	3771.9	3813.9	3828.7	3816.4	3833.7	3838.6	3823.8	3813.9	3786.7	3752.1	3653.2
15°	3799.1	3749.6	3791.6	3873.2	3855.9	3868.3	3870.7	3860.9	3848.5	3784.2	3720.0
17.5°	3806.5	3776.8	3865.8	3883.1	3905.3	3949.8	3920.2	3917.7	3870.7	3826.2	3732.3
20°	3823.8	3811.4	3883.1	3974.6	3977.0	3984.4	3999.3	3962.2	3937.5	3860.9	3717.5
22.5°	3888.0	3930.1	3996.8	4036.3	4058.6	4063.5	4063.5	3989.4	3962.2	3900.4	3786.7
25°	4080.8	4036.3	4130.3	4177.2	4145.1	4137.7	4120.4	4053.6	4024.0	3969.6	3818.8
27.5°	4221.7	4219.3	4273.6	4337.9	4251.4	4268.7	4206.9	4187.1	4120.4	4090.7	3875.7
30°	4414.5	4468.9	4466.4	4486.2	4372.5	4392.3	4313.2	4276.1	4239.0	4256.3	4043.8
32.5°	4661.7	4641.9	4674.1	4659.2	4545.5	4562.8	4468.9	4412.1	4424.4	4476.3	4273.6
35°	4819.9	4800.1	4812.5	4812.5	4777.9	4758.1	4718.5	4644.4	4703.7	4800.1	4530.7
37.5°	4990.4	5015.2	5086.8	5072.0	5027.5	5027.5	5022.6	4970.7	5047.3	5284.6	4941.0
40°	5141.2	5208.0	5252.4	5282.1	5334.0	5334.0	5376.0	5346.4	5484.8	5865.4	5442.8
42.5°	5299.4	5301.9	5544.1	5566.4	5682.5	5732.0	5764.1	5788.8	6048.3	6473.5	5979.1
45°	5502.1	5514.4	5727.0	5897.6	6078.0	6095.3	6216.4	6298.0	6616.8	7138.4	6562.5
47.5°	5769.0	5754.2	5981.6	6253.5	6478.4	6597.1	6742.9	6831.9	7224.9	7860.1	7200.2
50°	6120.0	6075.5	6206.5	6634.1	6898.6	7029.6	7289.2	7437.5	7897.2	8549.7	7637.7
52.5°	6547.6	6473.5	6577.3	7044.5	7341.1	7605.5	7852.7	8018.3	8497.8	9083.6	7961.5
55°	7000.0	6846.7	6876.4	7479.5	7907.1	8156.7	8495.4	8668.4	9157.8	9563.2	8285.3
57.5°	7447.3	7350.9	7291.6	7897.2	8581.9	8821.6	9133.1	9358.0	9773.3	9988.3	8559.6
60°	7823.0	7798.3	7701.9	8544.8	9296.2	9501.4	9827.6	9966.0	10280.0	10381.3	8564.6
62.5°	8132.0	8048.0	8201.2	9066.3	10022.9	10255.2	10613.6	10626.0	10848.5	10626.0	8312.5
65°	8374.2	8379.2	8623.9	9696.6	10863.3	11206.9	11496.1	11463.9	11320.6	10480.2	7716.8
67.5°	8594.2	8688.2	9046.6	10388.7	11943.4	12267.2	12588.6	12163.4	11449.1	9798.0	6552.6
70°	8767.3	8861.2	9617.5	11231.6	13216.4	13691.0	13762.6	12440.3	10858.3	8300.1	4943.5
72.5°	8747.5	8918.0	9941.3	11903.9	14346.0	14756.3	14177.9	11661.7	9046.6	5786.3	2884.5
73°	8789.5	8873.5	9914.1	12091.7	14689.5	14894.7	13985.1	11417.0	8532.4	5190.6	2439.6
75°	7978.8	8263.0	9422.3	11785.2	14321.2	14284.2	12877.8	9513.7	6065.6	2726.3	1181.5
77.5°	5902.5	6082.9	7425.1	9691.7	11755.6	11518.3	9713.9	6080.5	2879.6	1010.9	637.7
80°	2884.5	3025.4	3935.0	5596.0	7687.1	7706.9	6028.6	3163.8	1233.4	571.0	435.0
82.5°	1441.0	1525.1	1890.9	2459.4	3781.8	3962.2	3057.5	1799.4	763.8	323.8	247.2
85°	941.7	1001.1	1164.2	1203.7	1604.2	1693.1	1423.7	1403.9	496.8	175.5	200.2
87.5°	625.3	635.2	714.3	608.0	642.7	617.9	687.1	884.9	145.8	74.2	54.4
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°	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5	3932.5
2.5°	3920.2	3885.6	3848.5	3796.6	3759.5	3702.7	3650.8	3628.5	3623.6	3626.0	3601.3
5°	3818.8	3769.4	3695.2	3589.0	3527.2	3433.2	3354.1	3312.1	3267.6	3275.1	3255.3
7.5°	3677.9	3623.6	3509.9	3386.3	3233.0	3099.6	3025.4	2921.6	2862.3	2817.8	2842.5
10°	3633.5	3539.5	3369.0	3198.4	2961.1	2785.6	2615.1	2496.5	2414.9	2335.8	2370.4
12.5°	3611.2	3517.3	3280.0	3027.9	2721.4	2454.4	2214.7	2068.8	1952.7	1883.5	1910.7
15°	3591.4	3475.3	3196.0	2840.0	2496.5	2145.5	1876.0	1683.3	1572.0	1505.3	1512.7
17.5°	3618.6	3453.0	3072.4	2657.1	2249.3	1873.6	1574.5	1374.3	1260.6	1218.6	1208.7
20°	3591.4	3428.3	2951.3	2474.2	2002.1	1614.0	1327.3	1161.7	1082.6	1048.0	1040.6
22.5°	3601.3	3369.0	2825.2	2271.5	1772.2	1396.5	1161.7	1035.7	973.9	956.6	961.5
25°	3648.3	3334.4	2699.1	2049.1	1544.8	1235.9	1055.4	959.0	914.5	897.2	902.2
27.5°	3682.9	3364.0	2585.4	1839.0	1352.0	1092.5	966.4	902.2	872.5	860.2	857.7
30°	3769.4	3381.3	2474.2	1651.1	1193.8	998.6	904.7	852.7	833.0	825.6	823.1
32.5°	3897.9	3413.5	2345.7	1478.1	1077.7	909.6	855.2	810.7	805.8	798.4	800.8
35°	4108.0	3524.7	2202.3	1329.8	966.4	850.3	803.3	773.7	773.7	773.7	781.1
37.5°	4409.6	3680.4	2073.8	1188.9	894.8	798.4	758.8	748.9	744.0	751.4	756.4
40°	4797.6	3868.3	1970.0	1077.7	833.0	763.8	729.2	724.2	721.7	719.3	724.2
42.5°	5222.8	4108.0	1881.0	991.2	788.5	726.7	702.0	697.0	687.1	692.1	699.5
45°	5645.4	4404.6	1801.9	922.0	758.8	706.9	672.3	669.8	664.9	662.4	674.8
47.5°	6115.1	4696.3	1777.2	879.9	736.6	677.3	652.5	650.1	635.2	632.8	642.7
50°	6480.9	4911.3	1804.4	860.2	704.4	655.0	637.7	625.3	613.0	600.6	600.6
52.5°	6733.0	5059.6	1824.1	845.3	687.1	625.3	603.1	598.2	585.8	573.4	568.5
55°	6960.4	5148.6	1829.1	847.8	669.8	590.7	575.9	573.4	566.0	546.3	541.3
57.5°	7037.0	5111.6	1730.2	825.6	660.0	568.5	548.7	553.7	543.8	526.5	524.0
60°	7029.6	4854.5	1505.3	795.9	637.7	543.8	519.1	533.9	533.9	514.1	511.6
62.5°	6602.0	4261.3	1230.9	739.0	613.0	519.1	491.9	514.1	521.5	509.2	506.7
65°	5714.7	3470.3	1028.2	682.2	575.9	491.9	464.7	489.4	501.8	496.8	494.3
67.5°	4728.4	2654.6	855.2	608.0	529.0	454.8	432.6	449.9	457.3	459.7	462.2
70°	3341.8	1767.3	714.3	526.5	464.7	415.3	390.5	393.0	390.5	397.9	397.9
72.5°	1816.7	1018.4	580.9	447.4	400.4	360.9	343.6	331.2	331.2	328.7	328.7
73°	1554.7	914.5	553.7	435.0	383.1	351.0	331.2	321.3	321.3	318.9	316.4
75°	872.5	669.8	474.6	373.2	331.2	306.5	291.7	276.8	274.4	274.4	274.4
77.5°	573.4	521.5	378.2	299.1	266.9	244.7	239.8	224.9	224.9	224.9	222.5
80°	430.1	410.3	291.7	227.4	205.2	187.9	182.9	173.0	170.5	160.7	163.1
82.5°	286.7	323.8	212.6	160.7	138.4	128.5	128.5	126.1	118.6	106.3	106.3
85°	227.4	264.5	153.2	98.9	81.6	69.2	71.7	69.2	66.7	54.4	51.9
87.5°	42.0	106.3	44.5	27.2	19.8	12.4	12.4	7.4	4.9	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)