

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: P480746

Luminaire Tested: **IFLD-S-SA6B-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480746
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

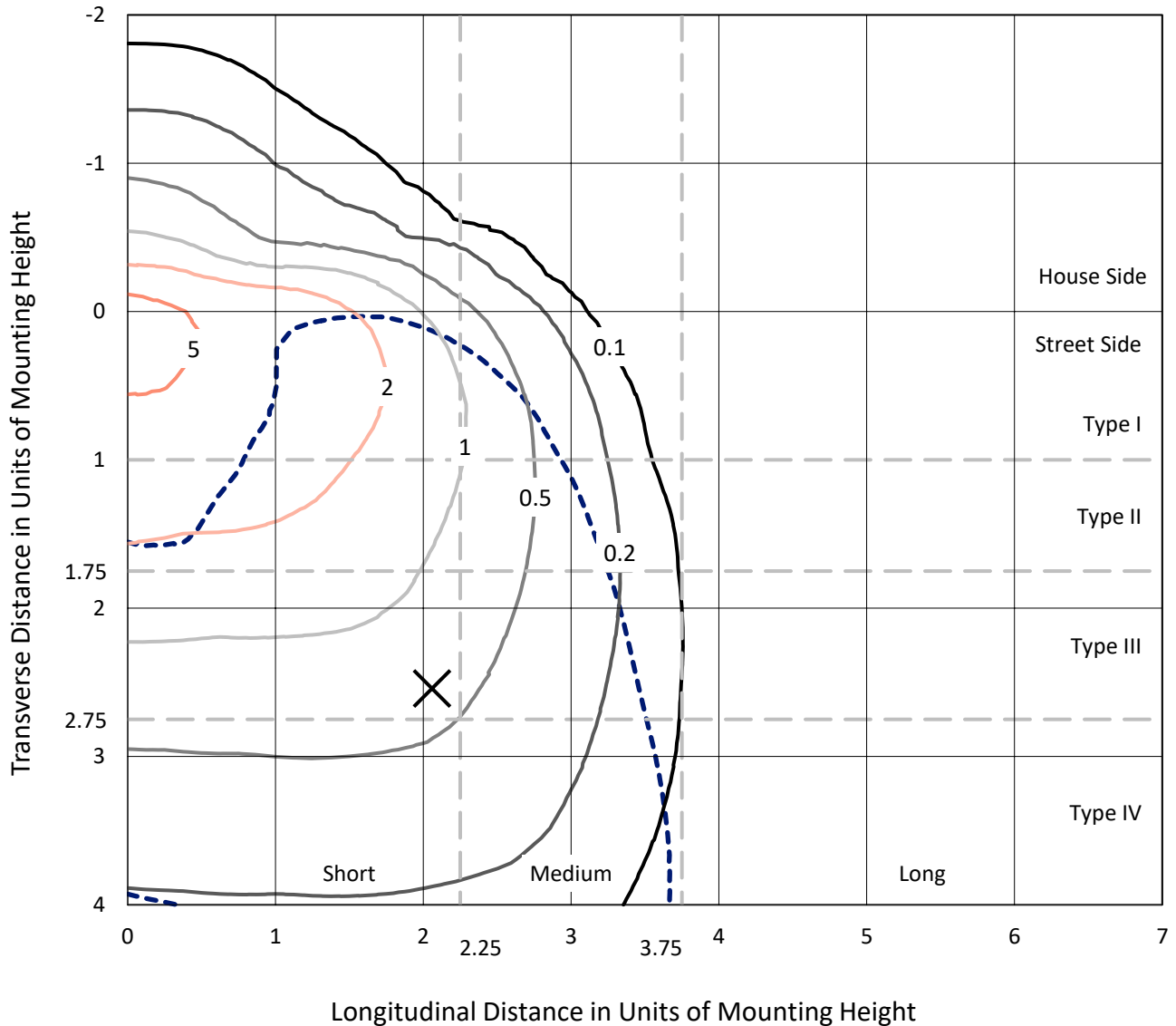
Lumens per Lamp: N/A
Luminaire Lumens: 23783 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

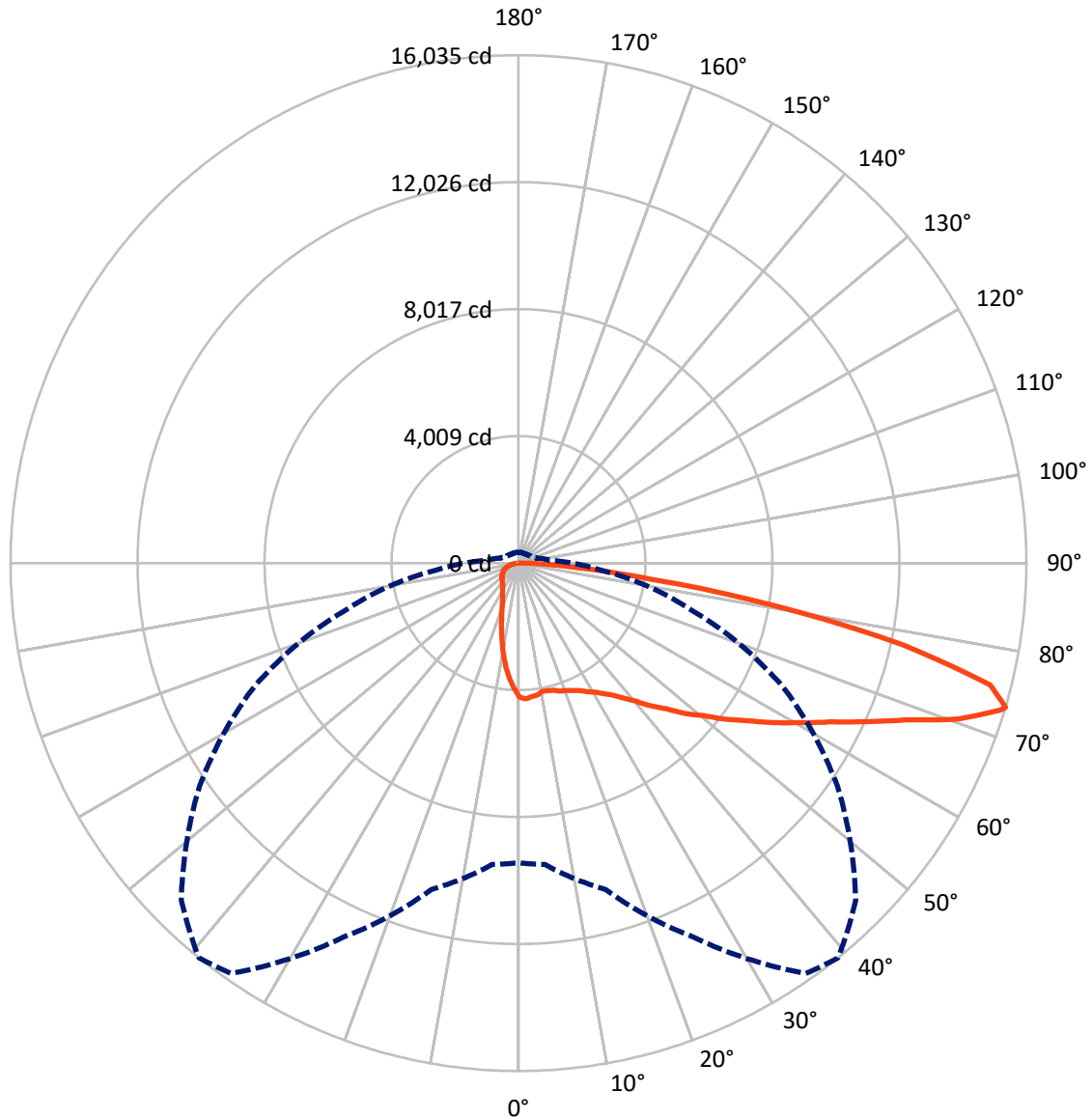
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	3343.2	0.0	3343.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20439.7	0.0	20439.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	23783.0	0.0	23783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.5	1.5
10°-20°	934.2	3.9
20°-30°	1427.6	6.0
30°-40°	2081.5	8.8
40°-50°	3145.4	13.2
50°-60°	4554.7	19.2
60°-70°	5787.0	24.3
70°-80°	4691.2	19.7
80°-90°	793.7	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°	23783.0	100.0
0°-180°	23783.0	100.0

Coefficient of Utilization



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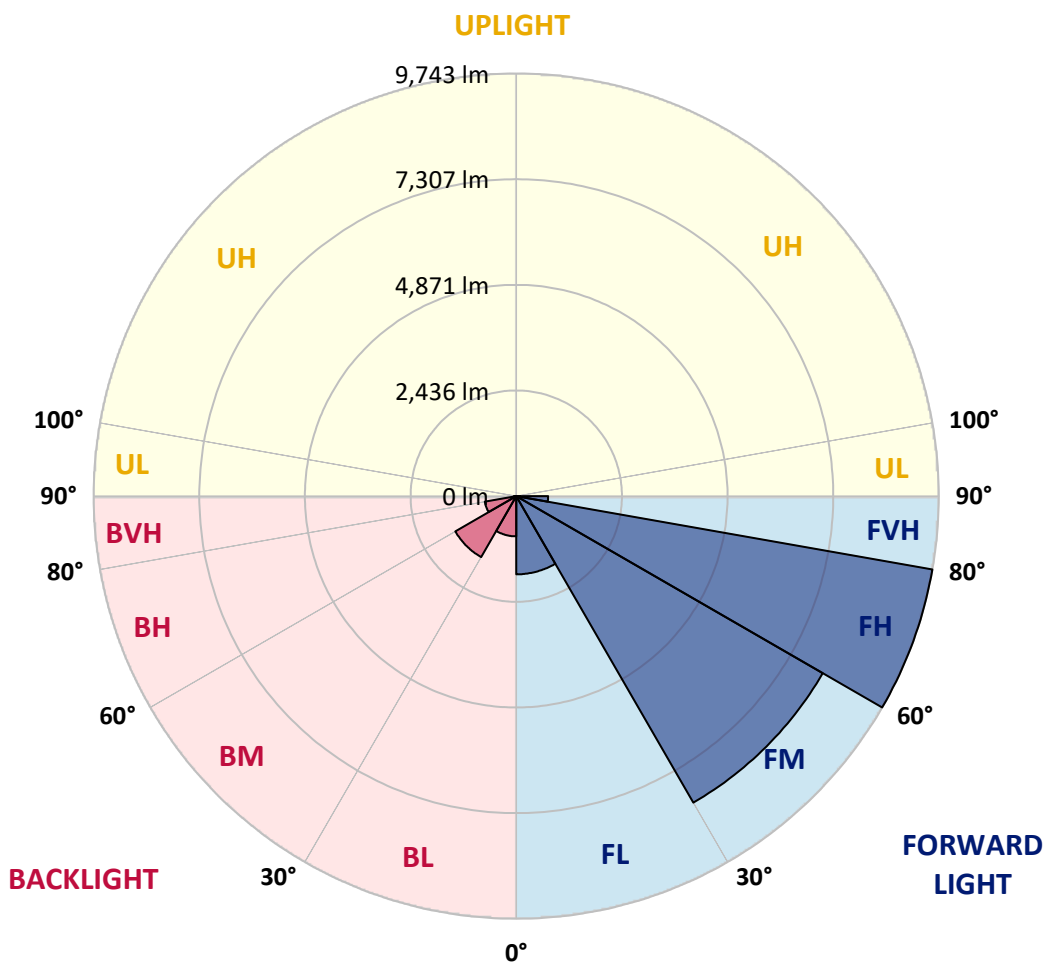
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.2	7.6			
FM (30°-60°)	8159.1	34.3			
FH (60°-80°)	9742.9	41.0			G4/12000
FVH (80°-90°)	735.5	3.1			G4/750
BL (0°-30°)	927.1	3.9	B2/1000		
BM (30°-60°)	1622.5	6.8	B2/2500		
BH (60°-80°)	735.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	58.2	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°	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5
2.5°	4334.6	4289.4	4297.4	4281.4	4297.4	4292.1	4284.1	4244.2	4284.1	4244.2	4233.5
5°	4276.1	4276.1	4302.7	4262.8	4268.1	4241.5	4268.1	4238.8	4212.2	4145.7	4127.1
7.5°	4257.5	4254.8	4257.5	4201.6	4228.2	4212.2	4185.6	4153.7	4100.5	4057.9	3996.7
10°	4129.7	4156.3	4127.1	4143.0	4164.3	4116.4	4113.8	4105.8	4081.8	4026.0	3988.7
12.5°	4060.6	4105.8	4121.8	4108.4	4127.1	4132.4	4116.4	4105.8	4076.5	4039.3	3932.8
15°	4089.8	4036.6	4081.8	4169.7	4151.0	4164.3	4167.0	4156.3	4143.0	4073.9	4004.7
17.5°	4097.8	4065.9	4161.7	4180.3	4204.2	4252.1	4220.2	4217.5	4167.0	4119.1	4018.0
20°	4116.4	4103.1	4180.3	4278.7	4281.4	4289.4	4305.4	4265.4	4238.8	4156.3	4002.0
22.5°	4185.6	4230.9	4302.7	4345.3	4369.2	4374.5	4374.5	4294.7	4265.4	4198.9	4076.5
25°	4393.2	4345.3	4446.4	4496.9	4462.4	4454.4	4435.7	4363.9	4332.0	4273.4	4111.1
27.5°	4544.8	4542.2	4600.7	4669.9	4576.8	4595.4	4528.9	4507.6	4435.7	4403.8	4172.3
30°	4752.4	4810.9	4808.3	4829.6	4707.2	4728.4	4643.3	4603.4	4563.5	4582.1	4353.3
32.5°	5018.5	4997.2	5031.8	5015.8	4893.4	4912.0	4810.9	4749.7	4763.0	4818.9	4600.7
35°	5188.8	5167.5	5180.8	5180.8	5143.5	5122.3	5079.7	4999.9	5063.7	5167.5	4877.5
37.5°	5372.4	5399.0	5476.2	5460.2	5412.3	5412.3	5407.0	5351.1	5433.6	5689.0	5319.2
40°	5534.7	5606.5	5654.4	5686.4	5742.3	5742.3	5787.5	5755.6	5904.6	6314.3	5859.3
42.5°	5705.0	5707.7	5968.4	5992.4	6117.4	6170.7	6205.2	6231.9	6511.3	6968.9	6436.7
45°	5923.2	5936.5	6165.3	6348.9	6543.2	6561.8	6692.2	6780.0	7123.3	7684.7	7064.7
47.5°	6210.6	6194.6	6439.4	6732.1	6974.3	7102.0	7259.0	7354.8	7777.8	8461.7	7751.2
50°	6588.4	6540.5	6681.6	7141.9	7426.6	7567.6	7847.0	8006.7	8501.6	9204.1	8222.2
52.5°	7048.8	6968.9	7080.7	7583.6	7902.9	8187.6	8453.7	8632.0	9148.2	9778.9	8570.8
55°	7535.7	7370.7	7402.7	8051.9	8512.3	8781.0	9145.6	9331.8	9858.7	10295.1	8919.4
57.5°	8017.3	7913.6	7849.7	8501.6	9238.7	9496.8	9832.1	10074.2	10521.2	10752.7	9214.7
60°	8421.8	8395.2	8291.4	9198.8	10007.7	10228.5	10579.8	10728.8	11066.7	11175.8	9220.1
62.5°	8754.4	8663.9	8828.9	9760.2	10790.0	11040.1	11426.0	11439.3	11678.7	11439.3	8948.7
65°	9015.2	9020.5	9283.9	10438.8	11694.7	12064.6	12375.9	12341.3	12187.0	11282.3	8307.4
67.5°	9252.0	9353.1	9738.9	11183.8	12857.5	13206.1	13552.0	13094.4	12325.3	10547.9	7054.1
70°	9438.3	9539.4	10353.6	12091.2	14227.9	14738.8	14816.0	13392.4	11689.4	8935.3	5321.8
72.5°	9417.0	9600.6	10702.2	12815.0	15443.9	15885.7	15263.0	12554.2	9738.9	6229.2	3105.3
73°	9462.2	9552.7	10672.9	13017.2	15813.8	16034.7	15055.4	12290.8	9185.5	5587.9	2626.3
75°	8589.4	8895.4	10143.4	12687.2	15417.3	15377.4	13863.4	10241.9	6529.9	2935.0	1271.9
77.5°	6354.3	6548.5	7993.4	10433.4	12655.3	12399.9	10457.4	6545.8	3100.0	1088.3	686.5
80°	3105.3	3257.0	4236.2	6024.3	8275.4	8296.7	6490.0	3406.0	1327.8	614.7	468.3
82.5°	1551.3	1641.8	2035.6	2647.6	4071.2	4265.4	3291.5	1937.1	822.2	348.6	266.1
85°	1013.8	1077.7	1253.3	1295.9	1726.9	1822.7	1532.7	1511.4	534.8	188.9	215.5
87.5°	673.2	683.9	769.0	654.6	691.8	665.2	739.7	952.6	157.0	79.8	58.5
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°	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5	4233.5
2.5°	4220.2	4183.0	4143.0	4087.2	4047.2	3986.0	3930.2	3906.2	3900.9	3903.6	3877.0
5°	4111.1	4057.9	3978.1	3863.6	3797.1	3696.0	3610.9	3565.6	3517.7	3525.7	3504.4
7.5°	3959.4	3900.9	3778.5	3645.5	3480.5	3336.8	3257.0	3145.2	3081.3	3033.4	3060.0
10°	3911.5	3810.4	3626.8	3443.2	3187.8	2998.8	2815.2	2687.5	2599.7	2514.6	2551.8
12.5°	3887.6	3786.5	3531.0	3259.6	2929.7	2642.3	2384.2	2227.2	2102.1	2027.6	2056.9
15°	3866.3	3741.2	3440.6	3057.4	2687.5	2309.7	2019.6	1812.1	1692.3	1620.5	1628.5
17.5°	3895.6	3717.3	3307.5	2860.5	2421.4	2017.0	1695.0	1479.5	1357.1	1311.8	1301.2
20°	3866.3	3690.7	3177.1	2663.6	2155.3	1737.6	1428.9	1250.6	1165.5	1128.2	1120.2
22.5°	3877.0	3626.8	3041.4	2445.4	1907.9	1503.4	1250.6	1114.9	1048.4	1029.8	1035.1
25°	3927.5	3589.6	2905.7	2205.9	1663.1	1330.5	1136.2	1032.4	984.5	965.9	971.2
27.5°	3964.8	3621.5	2783.3	1979.7	1455.5	1176.1	1040.4	971.2	939.3	926.0	923.3
30°	4057.9	3640.1	2663.6	1777.5	1285.2	1075.0	973.9	918.0	896.7	888.7	886.1
32.5°	4196.3	3674.7	2525.2	1591.2	1160.2	979.2	920.7	872.8	867.5	859.5	862.1
35°	4422.4	3794.5	2370.9	1431.6	1040.4	915.4	864.8	832.9	832.9	832.9	840.8
37.5°	4747.1	3962.1	2232.5	1279.9	963.3	859.5	816.9	806.3	800.9	808.9	814.2
40°	5164.8	4164.3	2120.7	1160.2	896.7	822.2	785.0	779.6	777.0	774.3	779.6
42.5°	5622.5	4422.4	2025.0	1067.0	848.8	782.3	755.7	750.4	739.7	745.1	753.0
45°	6077.5	4741.7	1939.8	992.5	816.9	761.0	723.8	721.1	715.8	713.1	726.4
47.5°	6583.1	5055.7	1913.2	947.3	793.0	729.1	702.5	699.8	683.9	681.2	691.8
50°	6976.9	5287.2	1942.5	926.0	758.4	705.1	686.5	673.2	659.9	646.6	646.6
52.5°	7248.3	5446.9	1963.8	910.0	739.7	673.2	649.3	643.9	630.6	617.3	612.0
55°	7493.1	5542.7	1969.1	912.7	721.1	636.0	620.0	617.3	609.3	588.1	582.7
57.5°	7575.6	5502.8	1862.6	888.7	710.5	612.0	590.7	596.0	585.4	566.8	564.1
60°	7567.6	5226.0	1620.5	856.8	686.5	585.4	558.8	574.8	574.8	553.5	550.8
62.5°	7107.3	4587.4	1325.1	795.6	659.9	558.8	529.5	553.5	561.5	548.1	545.5
65°	6152.0	3735.9	1106.9	734.4	620.0	529.5	500.3	526.9	540.2	534.8	532.2
67.5°	5090.3	2857.8	920.7	654.6	569.4	489.6	465.7	484.3	492.3	494.9	497.6
70°	3597.6	1902.6	769.0	566.8	500.3	447.0	420.4	423.1	420.4	428.4	428.4
72.5°	1955.8	1096.3	625.3	481.6	431.1	388.5	369.9	356.6	356.6	353.9	353.9
73°	1673.7	984.5	596.0	468.3	412.4	377.8	356.6	345.9	345.9	343.3	340.6
75°	939.3	721.1	510.9	401.8	356.6	330.0	314.0	298.0	295.4	295.4	295.4
77.5°	617.3	561.5	407.1	322.0	287.4	263.4	258.1	242.1	242.1	242.1	239.5
80°	463.0	441.7	314.0	244.8	220.9	202.2	196.9	186.3	183.6	173.0	175.6
82.5°	308.7	348.6	228.8	173.0	149.0	138.4	138.4	135.7	127.7	114.4	114.4
85°	244.8	284.7	165.0	106.4	87.8	74.5	77.2	74.5	71.8	58.5	55.9
87.5°	45.2	114.4	47.9	29.3	21.3	13.3	13.3	8.0	5.3	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)