

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: P480752

Luminaire Tested: **IFLD-M-SA4C-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480752
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-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

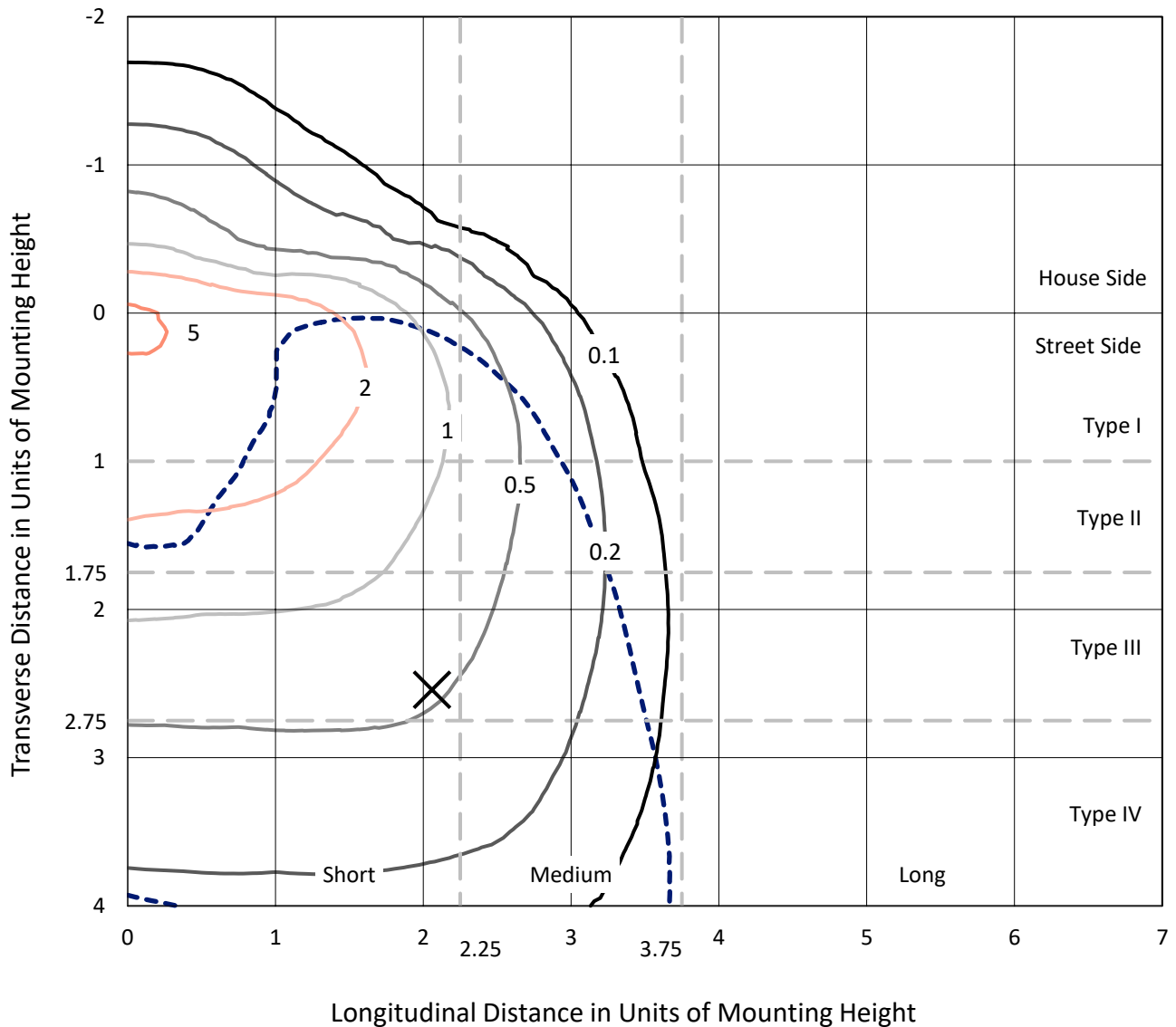
Lumens per Lamp: N/A
Luminaire Lumens: 20257.5 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

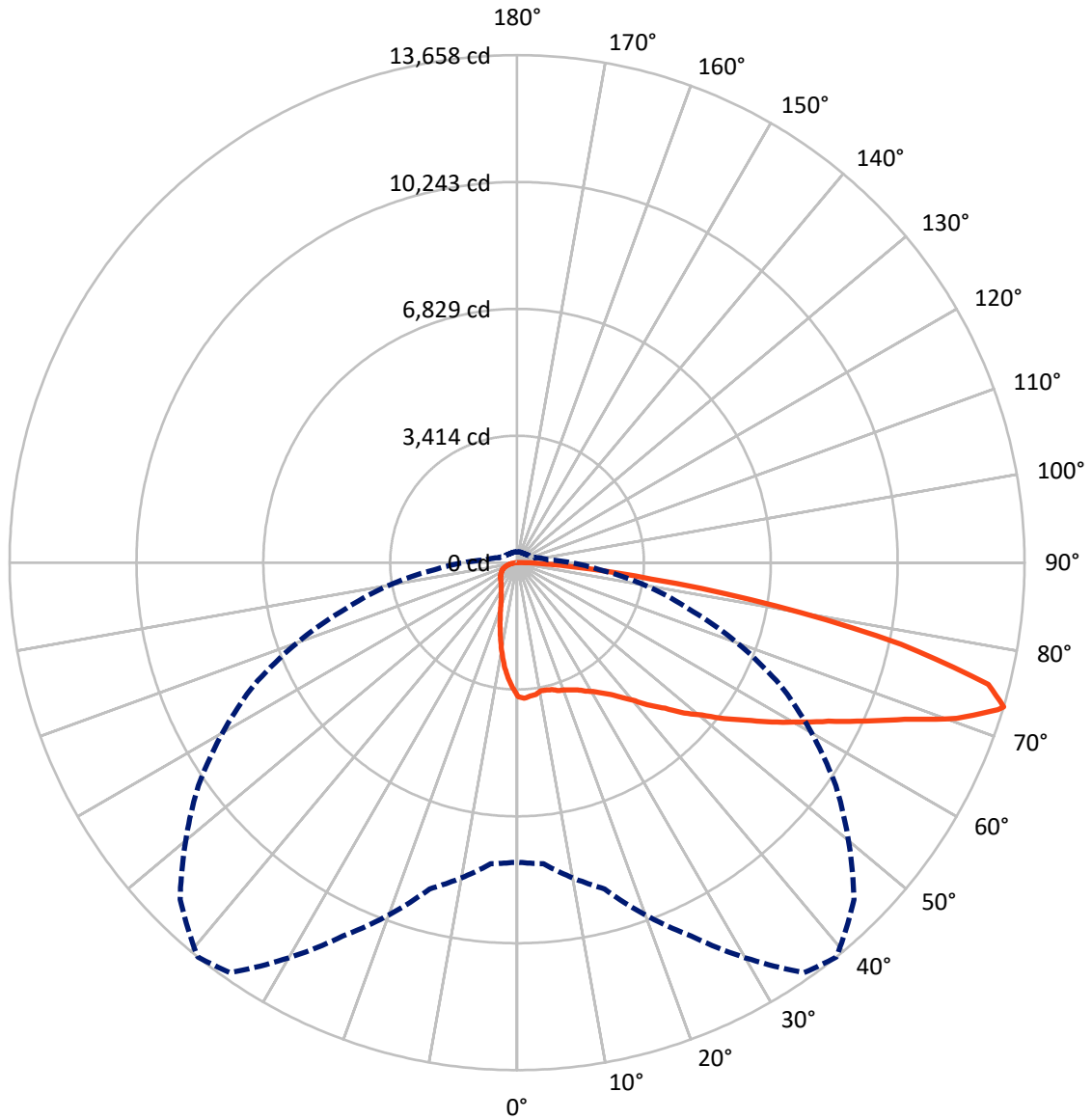
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2847.6	0.0	2847.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	17409.9	0.0	17409.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	20257.5	0.0	20257.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.0	1.5
10°-20°	795.8	3.9
20°-30°	1216.0	6.0
30°-40°	1773.0	8.8
40°-50°	2679.1	13.2
50°-60°	3879.6	19.2
60°-70°	4929.2	24.3
70°-80°	3995.8	19.7
80°-90°	676.1	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°	20257.5	100.0
0°-180°	20257.5	100.0

Coefficient of Utilization



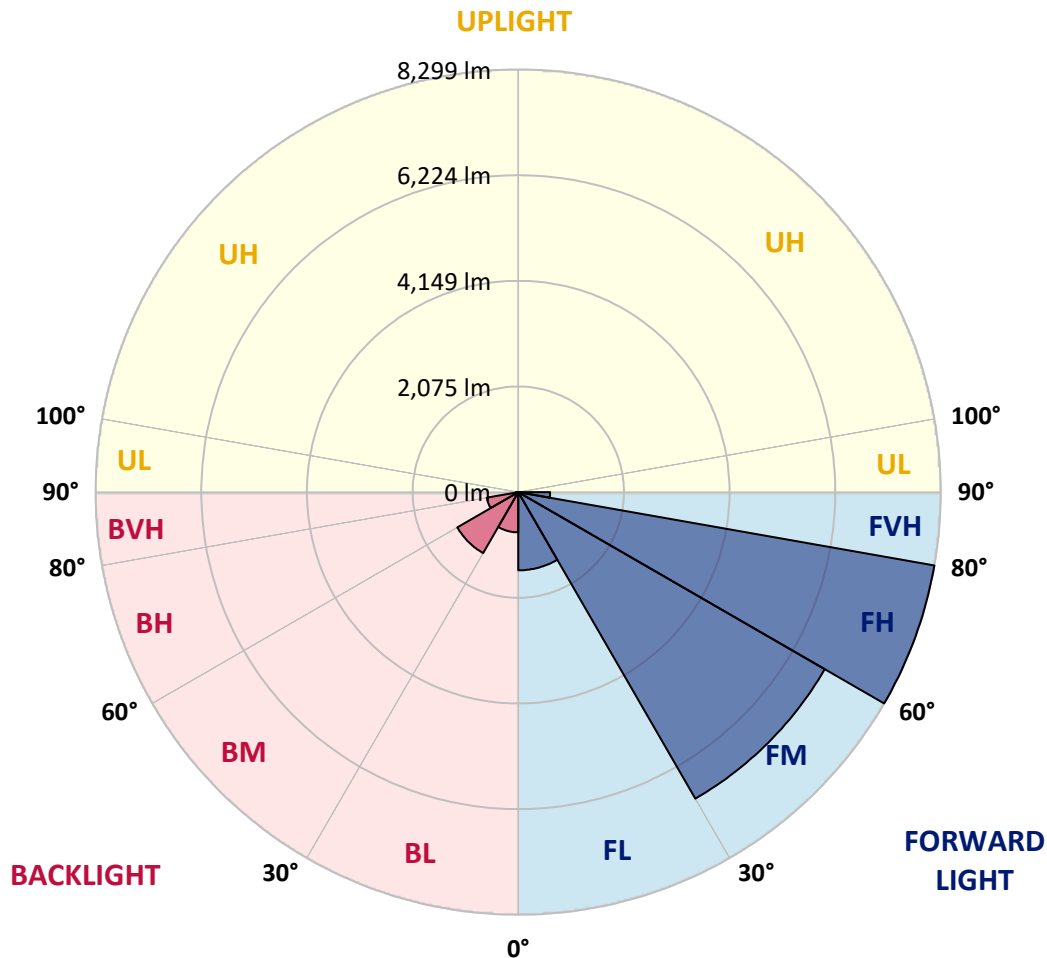
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.1	7.6			
FM (30°-60°)	6949.6	34.3			
FH (60°-80°)	8298.7	41.0			G4/12000
FVH (80°-90°)	626.5	3.1			G4/750
BL (0°-30°)	789.7	3.9	B2/1000		
BM (30°-60°)	1382.0	6.8	B2/2500		
BH (60°-80°)	626.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	49.6	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0
2.5°	3692.1	3653.6	3660.4	3646.8	3660.4	3655.8	3649.0	3615.0	3649.0	3615.0	3606.0
5°	3642.2	3642.2	3664.9	3630.9	3635.4	3612.8	3635.4	3610.5	3587.8	3531.2	3515.3
7.5°	3626.4	3624.1	3626.4	3578.8	3601.4	3587.8	3565.2	3538.0	3492.6	3456.4	3404.2
10°	3517.6	3540.2	3515.3	3528.9	3547.0	3506.2	3504.0	3497.2	3476.8	3429.2	3397.4
12.5°	3458.6	3497.2	3510.8	3499.4	3515.3	3519.8	3506.2	3497.2	3472.2	3440.5	3349.9
15°	3483.6	3438.2	3476.8	3551.6	3535.7	3547.0	3549.3	3540.2	3528.9	3470.0	3411.0
17.5°	3490.4	3463.2	3544.8	3560.6	3581.0	3621.8	3594.6	3592.4	3549.3	3508.5	3422.4
20°	3506.2	3494.9	3560.6	3644.5	3646.8	3653.6	3667.2	3633.2	3610.5	3540.2	3408.8
22.5°	3565.2	3603.7	3664.9	3701.2	3721.6	3726.1	3726.1	3658.1	3633.2	3576.5	3472.2
25°	3742.0	3701.2	3787.3	3830.3	3800.9	3794.1	3778.2	3717.0	3689.8	3640.0	3501.7
27.5°	3871.1	3868.9	3918.7	3977.7	3898.3	3914.2	3857.5	3839.4	3778.2	3751.0	3553.8
30°	4047.9	4097.8	4095.5	4113.7	4009.4	4027.5	3955.0	3921.0	3887.0	3902.9	3708.0
32.5°	4274.6	4256.4	4285.9	4272.3	4168.0	4183.9	4097.8	4045.7	4057.0	4104.6	3918.7
35°	4419.6	4401.5	4412.8	4412.8	4381.1	4363.0	4326.7	4258.7	4313.1	4401.5	4154.5
37.5°	4576.0	4598.7	4664.4	4650.8	4610.0	4610.0	4605.5	4557.9	4628.1	4845.7	4530.7
40°	4714.3	4775.5	4816.3	4843.5	4891.1	4891.1	4929.6	4902.4	5029.3	5378.3	4990.8
42.5°	4859.3	4861.6	5083.7	5104.1	5210.6	5256.0	5285.4	5308.1	5546.1	5935.9	5482.6
45°	5045.2	5056.5	5251.4	5407.8	5573.3	5589.1	5700.2	5775.0	6067.4	6545.6	6017.5
47.5°	5290.0	5276.4	5484.9	5734.2	5940.4	6049.2	6182.9	6264.5	6624.9	7207.4	6602.2
50°	5611.8	5571.0	5691.1	6083.2	6325.7	6445.9	6683.8	6819.8	7241.4	7839.7	7003.4
52.5°	6003.9	5935.9	6031.1	6459.5	6731.4	6973.9	7200.6	7352.4	7792.1	8329.3	7300.3
55°	6418.7	6278.1	6305.3	6858.4	7250.5	7479.4	7789.9	7948.5	8397.3	8769.0	7597.2
57.5°	6828.9	6740.5	6686.1	7241.4	7869.2	8089.1	8374.6	8580.9	8961.6	9158.8	7848.8
60°	7173.4	7150.7	7062.3	7835.2	8524.2	8712.3	9011.5	9138.4	9426.3	9519.2	7853.3
62.5°	7456.7	7379.6	7520.2	8313.4	9190.6	9403.6	9732.2	9743.6	9947.6	9743.6	7622.2
65°	7678.8	7683.4	7907.7	8891.4	9961.2	10276.2	10541.4	10511.9	10380.5	9609.9	7075.9
67.5°	7880.5	7966.7	8295.3	9526.0	10951.6	11248.5	11543.2	11153.3	10498.3	8984.3	6008.4
70°	8039.2	8125.3	8818.9	10298.9	12118.8	12554.0	12619.7	11407.2	9956.6	7610.8	4533.0
72.5°	8021.1	8177.4	9115.8	10915.3	13154.6	13530.9	13000.5	10693.2	8295.3	5305.8	2645.0
73°	8059.6	8136.6	9090.8	11087.6	13469.7	13657.8	12823.7	10468.9	7823.9	4759.6	2237.0
75°	7316.2	7576.8	8639.8	10806.6	13132.0	13098.0	11808.3	8723.7	5561.9	2499.9	1083.4
77.5°	5412.3	5577.8	6808.5	8886.9	10779.4	10561.8	8907.3	5575.5	2640.4	927.0	584.8
80°	2645.0	2774.2	3608.2	5131.3	7048.7	7066.9	5527.9	2901.1	1131.0	523.6	398.9
82.5°	1321.4	1398.4	1733.9	2255.1	3467.7	3633.2	2803.6	1650.0	700.3	296.9	226.6
85°	863.5	917.9	1067.5	1103.8	1470.9	1552.5	1305.5	1287.4	455.6	160.9	183.6
87.5°	573.4	582.5	655.0	557.6	589.3	566.6	630.1	811.4	133.7	68.0	49.9
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°	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0
2.5°	3594.6	3562.9	3528.9	3481.3	3447.3	3395.2	3347.6	3327.2	3322.7	3324.9	3302.3
5°	3501.7	3456.4	3388.4	3290.9	3234.3	3148.1	3075.6	3037.1	2996.3	3003.1	2984.9
7.5°	3372.5	3322.7	3218.4	3105.1	2964.6	2842.2	2774.2	2679.0	2624.6	2583.8	2606.4
10°	3331.7	3245.6	3089.2	2932.8	2715.2	2554.3	2397.9	2289.1	2214.3	2141.8	2173.6
12.5°	3311.3	3225.2	3007.6	2776.4	2495.4	2250.6	2030.8	1897.0	1790.5	1727.1	1752.0
15°	3293.2	3186.7	2930.6	2604.2	2289.1	1967.3	1720.3	1543.5	1441.5	1380.3	1387.1
17.5°	3318.1	3166.3	2817.2	2436.5	2062.5	1718.0	1443.7	1260.2	1155.9	1117.4	1108.3
20°	3293.2	3143.6	2706.2	2268.7	1835.8	1480.0	1217.1	1065.2	992.7	961.0	954.2
22.5°	3302.3	3089.2	2590.6	2082.9	1625.1	1280.6	1065.2	949.7	893.0	877.1	881.7
25°	3345.3	3057.5	2475.0	1878.9	1416.5	1133.2	967.8	879.4	838.6	822.7	827.3
27.5°	3377.0	3084.7	2370.7	1686.3	1239.8	1001.8	886.2	827.3	800.1	788.7	786.5
30°	3456.4	3100.5	2268.7	1514.0	1094.7	915.7	829.5	781.9	763.8	757.0	754.7
32.5°	3574.2	3130.0	2150.9	1355.4	988.2	834.1	784.2	743.4	738.9	732.1	734.3
35°	3766.9	3232.0	2019.4	1219.4	886.2	779.7	736.6	709.4	709.4	709.4	716.2
37.5°	4043.4	3374.8	1901.6	1090.2	820.5	732.1	695.8	686.7	682.2	689.0	693.5
40°	4399.2	3547.0	1806.4	988.2	763.8	700.3	668.6	664.1	661.8	659.5	664.1
42.5°	4789.1	3766.9	1724.8	908.9	723.0	666.3	643.7	639.1	630.1	634.6	641.4
45°	5176.6	4038.9	1652.3	845.4	695.8	648.2	616.5	614.2	609.7	607.4	618.7
47.5°	5607.3	4306.3	1629.6	806.9	675.4	621.0	598.3	596.1	582.5	580.2	589.3
50°	5942.7	4503.5	1654.5	788.7	645.9	600.6	584.8	573.4	562.1	550.8	550.8
52.5°	6173.9	4639.5	1672.7	775.1	630.1	573.4	553.0	548.5	537.2	525.8	521.3
55°	6382.4	4721.1	1677.2	777.4	614.2	541.7	528.1	525.8	519.0	500.9	496.4
57.5°	6452.7	4687.1	1586.5	757.0	605.1	521.3	503.2	507.7	498.6	482.8	480.5
60°	6445.9	4451.4	1380.3	729.8	584.8	498.6	476.0	489.6	489.6	471.4	469.2
62.5°	6053.8	3907.4	1128.7	677.7	562.1	476.0	451.0	471.4	478.2	466.9	464.6
65°	5240.1	3182.1	942.9	625.5	528.1	451.0	426.1	448.8	460.1	455.6	453.3
67.5°	4335.8	2434.2	784.2	557.6	485.0	417.0	396.6	412.5	419.3	421.6	423.8
70°	3064.3	1620.5	655.0	482.8	426.1	380.8	358.1	360.4	358.1	364.9	364.9
72.5°	1665.9	933.8	532.6	410.2	367.2	330.9	315.0	303.7	303.7	301.4	301.4
73°	1425.6	838.6	507.7	398.9	351.3	321.8	303.7	294.6	294.6	292.4	290.1
75°	800.1	614.2	435.2	342.2	303.7	281.0	267.4	253.8	251.6	251.6	251.6
77.5°	525.8	478.2	346.8	274.2	244.8	224.4	219.8	206.2	206.2	206.2	204.0
80°	394.4	376.2	267.4	208.5	188.1	172.3	167.7	158.7	156.4	147.3	149.6
82.5°	262.9	296.9	194.9	147.3	126.9	117.9	117.9	115.6	108.8	97.5	97.5
85°	208.5	242.5	140.5	90.7	74.8	63.5	65.7	63.5	61.2	49.9	47.6
87.5°	38.5	97.5	40.8	24.9	18.1	11.3	11.3	6.8	4.5	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)