

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: P480772

Luminaire Tested: **IFLD-S-SA3D-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480772
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

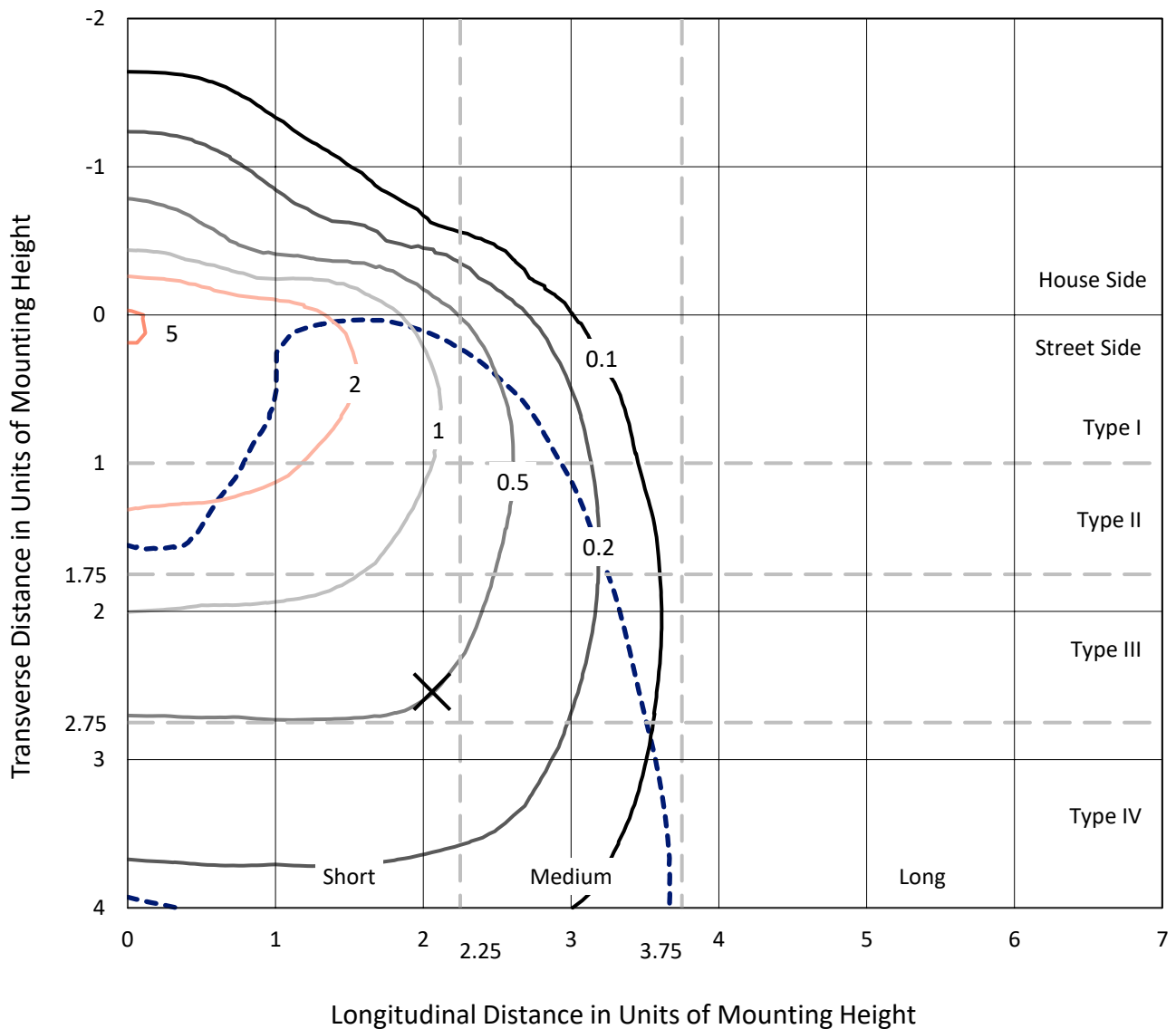
Lumens per Lamp: N/A
Luminaire Lumens: 18853.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1
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

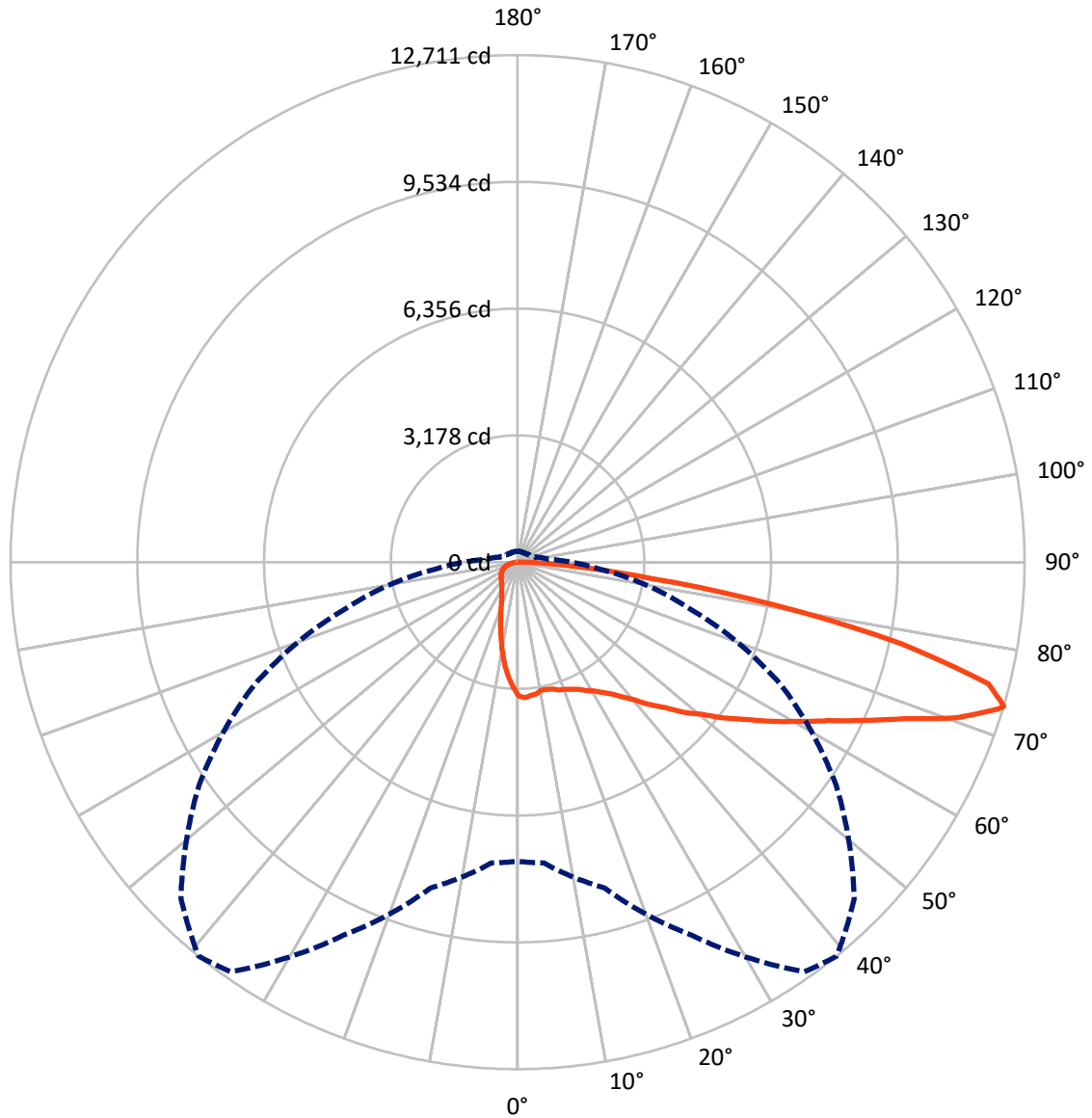
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2650.3	0.0	2650.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16203.6	0.0	16203.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	18853.9	0.0	18853.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.3	1.5
10°-20°	740.6	3.9
20°-30°	1131.7	6.0
30°-40°	1650.1	8.8
40°-50°	2493.5	13.2
50°-60°	3610.7	19.2
60°-70°	4587.6	24.3
70°-80°	3719.0	19.7
80°-90°	629.2	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°	18853.9	100.0
0°-180°	18853.9	100.0

Coefficient of Utilization



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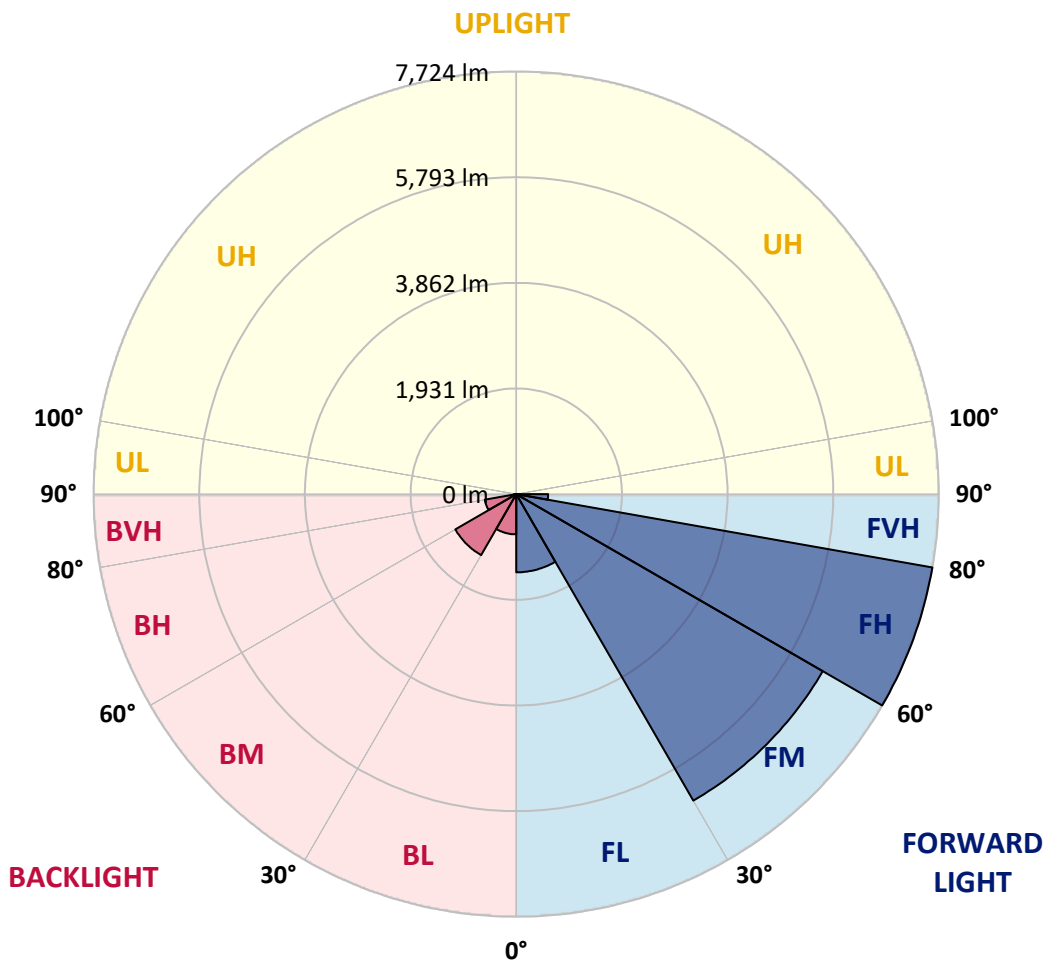
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.7	7.6			
FM (30°-60°)	6468.1	34.3			
FH (60°-80°)	7723.7	41.0			G4/12000
FVH (80°-90°)	583.1	3.1			G4/750
BL (0°-30°)	735.0	3.9	B2/1000		
BM (30°-60°)	1286.3	6.8	B2/2500		
BH (60°-80°)	582.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	46.2	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°	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1
2.5°	3436.3	3400.4	3406.7	3394.1	3406.7	3402.5	3396.2	3364.5	3396.2	3364.5	3356.1
5°	3389.9	3389.9	3411.0	3379.3	3383.5	3362.4	3383.5	3360.3	3339.2	3286.5	3271.7
7.5°	3375.1	3373.0	3375.1	3330.8	3351.9	3339.2	3318.1	3292.8	3250.6	3216.9	3168.4
10°	3273.8	3294.9	3271.7	3284.4	3301.3	3263.3	3261.2	3254.9	3235.9	3191.6	3162.0
12.5°	3219.0	3254.9	3267.5	3257.0	3271.7	3275.9	3263.3	3254.9	3231.6	3202.1	3117.7
15°	3242.2	3200.0	3235.9	3305.5	3290.7	3301.3	3303.4	3294.9	3284.4	3229.5	3174.7
17.5°	3248.5	3223.2	3299.2	3313.9	3332.9	3370.9	3345.6	3343.4	3303.4	3265.4	3185.2
20°	3263.3	3252.7	3313.9	3392.0	3394.1	3400.4	3413.1	3381.4	3360.3	3294.9	3172.6
22.5°	3318.1	3354.0	3411.0	3444.7	3463.7	3467.9	3467.9	3404.6	3381.4	3328.7	3231.6
25°	3482.7	3444.7	3524.9	3564.9	3537.5	3531.2	3516.4	3459.5	3434.2	3387.7	3259.1
27.5°	3602.9	3600.8	3647.2	3702.1	3628.2	3643.0	3590.3	3573.4	3516.4	3491.1	3307.6
30°	3767.4	3813.9	3811.7	3828.6	3731.6	3748.5	3681.0	3649.3	3617.7	3632.4	3451.0
32.5°	3978.4	3961.5	3988.9	3976.3	3879.2	3894.0	3813.9	3765.3	3775.9	3820.2	3647.2
35°	4113.4	4096.5	4107.1	4107.1	4077.5	4060.7	4026.9	3963.6	4014.2	4096.5	3866.6
37.5°	4258.9	4280.0	4341.2	4328.6	4290.6	4290.6	4286.4	4242.1	4307.5	4510.0	4216.8
40°	4387.6	4444.6	4482.5	4507.9	4552.2	4552.2	4588.0	4562.7	4680.8	5005.7	4645.0
42.5°	4522.6	4524.7	4731.5	4750.4	4849.6	4891.8	4919.2	4940.3	5161.8	5524.6	5102.7
45°	4695.6	4706.1	4887.6	5033.1	5187.1	5201.9	5305.2	5374.8	5646.9	6092.0	5600.5
47.5°	4923.4	4910.8	5104.8	5336.9	5528.8	5630.1	5754.5	5830.5	6165.9	6708.0	6144.8
50°	5223.0	5185.0	5296.8	5661.7	5887.4	5999.2	6220.7	6347.3	6739.6	7296.5	6518.1
52.5°	5587.9	5524.6	5613.2	6011.9	6265.0	6490.7	6701.7	6843.0	7252.2	7752.2	6794.5
55°	5973.9	5843.1	5868.4	6383.1	6748.1	6961.1	7250.1	7397.8	7815.4	8161.4	7070.8
57.5°	6355.7	6273.5	6222.8	6739.6	7323.9	7528.6	7794.4	7986.3	8340.7	8524.2	7305.0
60°	6676.4	6655.3	6573.0	7292.3	7933.6	8108.7	8387.1	8505.2	8773.1	8859.6	7309.2
62.5°	6940.0	6868.3	6999.1	7737.4	8553.7	8752.0	9057.9	9068.4	9258.3	9068.4	7094.0
65°	7146.8	7151.0	7359.8	8275.3	9271.0	9564.2	9811.0	9783.5	9661.2	8944.0	6585.6
67.5°	7334.5	7414.7	7720.5	8865.9	10192.8	10469.1	10743.3	10380.5	9770.9	8361.8	5592.1
70°	7482.2	7562.3	8207.8	9585.3	11279.1	11684.1	11745.3	10616.8	9266.7	7083.5	4218.9
72.5°	7465.3	7610.8	8484.1	10159.0	12243.1	12593.3	12099.7	9952.3	7720.5	4938.2	2461.7
73°	7501.1	7572.9	8460.9	10319.3	12536.4	12711.4	11935.2	9743.5	7281.8	4429.8	2082.0
75°	6809.2	7051.8	8041.2	10057.8	12222.0	12190.4	10990.1	8119.2	5176.5	2326.7	1008.3
77.5°	5037.3	5191.3	6336.7	8271.1	10032.5	9830.0	8290.1	5189.2	2457.5	862.8	544.2
80°	2461.7	2581.9	3358.2	4775.8	6560.3	6577.2	5144.9	2700.1	1052.6	487.3	371.3
82.5°	1229.8	1301.5	1613.7	2098.9	3227.4	3381.4	2609.4	1535.7	651.8	276.3	210.9
85°	803.7	854.3	993.5	1027.3	1369.0	1445.0	1215.0	1198.2	424.0	149.8	170.9
87.5°	533.7	542.1	609.6	518.9	548.5	527.4	586.4	755.2	124.5	63.3	46.4
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°	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1
2.5°	3345.6	3316.0	3284.4	3240.1	3208.4	3159.9	3115.6	3096.6	3092.4	3094.5	3073.4
5°	3259.1	3216.9	3153.6	3062.9	3010.2	2930.0	2862.5	2826.6	2788.7	2795.0	2778.1
7.5°	3138.8	3092.4	2995.4	2889.9	2759.1	2645.2	2581.9	2493.3	2442.7	2404.8	2425.8
10°	3100.9	3020.7	2875.2	2729.6	2527.1	2377.3	2231.8	2130.5	2060.9	1993.4	2022.9
12.5°	3081.9	3001.7	2799.2	2584.1	2322.5	2094.7	1890.1	1765.6	1666.5	1607.4	1630.6
15°	3065.0	2965.9	2727.5	2423.7	2130.5	1831.0	1601.1	1436.5	1341.6	1284.6	1291.0
17.5°	3088.2	2946.9	2622.0	2267.6	1919.6	1598.9	1343.7	1172.8	1075.8	1039.9	1031.5
20°	3065.0	2925.8	2518.7	2111.5	1708.6	1377.5	1132.8	991.4	923.9	894.4	888.1
22.5°	3073.4	2875.2	2411.1	1938.6	1512.5	1191.8	991.4	883.9	831.1	816.4	820.6
25°	3113.5	2845.6	2303.5	1748.7	1318.4	1054.7	900.7	818.5	780.5	765.7	769.9
27.5°	3143.1	2870.9	2206.5	1569.4	1153.9	932.4	824.8	769.9	744.6	734.1	732.0
30°	3216.9	2885.7	2111.5	1409.1	1018.9	852.2	772.1	727.8	710.9	704.6	702.4
32.5°	3326.6	2913.1	2001.9	1261.4	919.7	776.3	729.9	691.9	687.7	681.3	683.5
35°	3505.9	3008.0	1879.5	1134.9	824.8	725.6	685.6	660.3	660.3	660.3	666.6
37.5°	3763.2	3140.9	1769.8	1014.6	763.6	681.3	647.6	639.2	634.9	641.3	645.5
40°	4094.4	3301.3	1681.2	919.7	710.9	651.8	622.3	618.1	616.0	613.8	618.1
42.5°	4457.2	3505.9	1605.3	845.9	672.9	620.2	599.1	594.9	586.4	590.6	597.0
45°	4817.9	3759.0	1537.8	786.8	647.6	603.3	573.8	571.7	567.4	565.3	575.9
47.5°	5218.7	4007.9	1516.7	751.0	628.6	578.0	556.9	554.8	542.1	540.0	548.5
50°	5530.9	4191.4	1539.9	734.1	601.2	559.0	544.2	533.7	523.1	512.6	512.6
52.5°	5746.1	4318.0	1556.8	721.4	586.4	533.7	514.7	510.5	499.9	489.4	485.2
55°	5940.2	4393.9	1561.0	723.5	571.7	504.2	491.5	489.4	483.1	466.2	462.0
57.5°	6005.6	4362.3	1476.6	704.6	563.2	485.2	468.3	472.5	464.1	449.3	447.2
60°	5999.2	4142.9	1284.6	679.2	544.2	464.1	443.0	455.6	455.6	438.8	436.7
62.5°	5634.3	3636.7	1050.5	630.7	523.1	443.0	419.8	438.8	445.1	434.5	432.4
65°	4877.0	2961.6	877.5	582.2	491.5	419.8	396.6	417.7	428.2	424.0	421.9
67.5°	4035.3	2265.5	729.9	518.9	451.4	388.1	369.2	383.9	390.2	392.4	394.5
70°	2852.0	1508.2	609.6	449.3	396.6	354.4	333.3	335.4	333.3	339.6	339.6
72.5°	1550.4	869.1	495.7	381.8	341.7	308.0	293.2	282.7	282.7	280.6	280.6
73°	1326.8	780.5	472.5	371.3	327.0	299.5	282.7	274.2	274.2	272.1	270.0
75°	744.6	571.7	405.0	318.5	282.7	261.6	248.9	236.3	234.1	234.1	234.1
77.5°	489.4	445.1	322.7	255.2	227.8	208.8	204.6	192.0	192.0	192.0	189.8
80°	367.0	350.2	248.9	194.1	175.1	160.3	156.1	147.7	145.6	137.1	139.2
82.5°	244.7	276.3	181.4	137.1	118.1	109.7	109.7	107.6	101.3	90.7	90.7
85°	194.1	225.7	130.8	84.4	69.6	59.1	61.2	59.1	57.0	46.4	44.3
87.5°	35.9	90.7	38.0	23.2	16.9	10.5	10.5	6.3	4.2	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)