

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: P480862

Luminaire Tested: **IFLD-S-SA6A-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480862
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

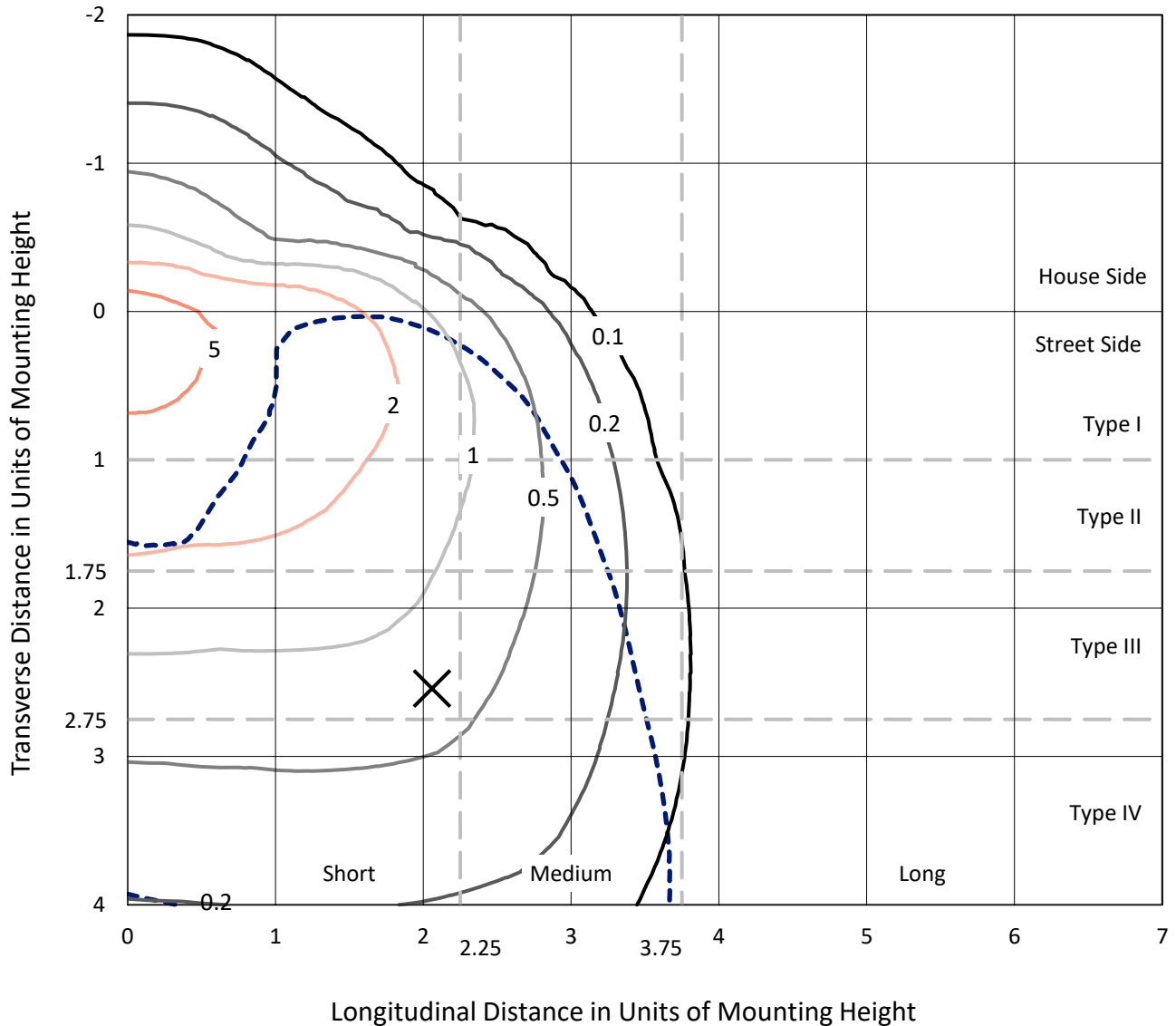
Lumens per Lamp: N/A
Luminaire Lumens: 25749.2 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 189.6
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

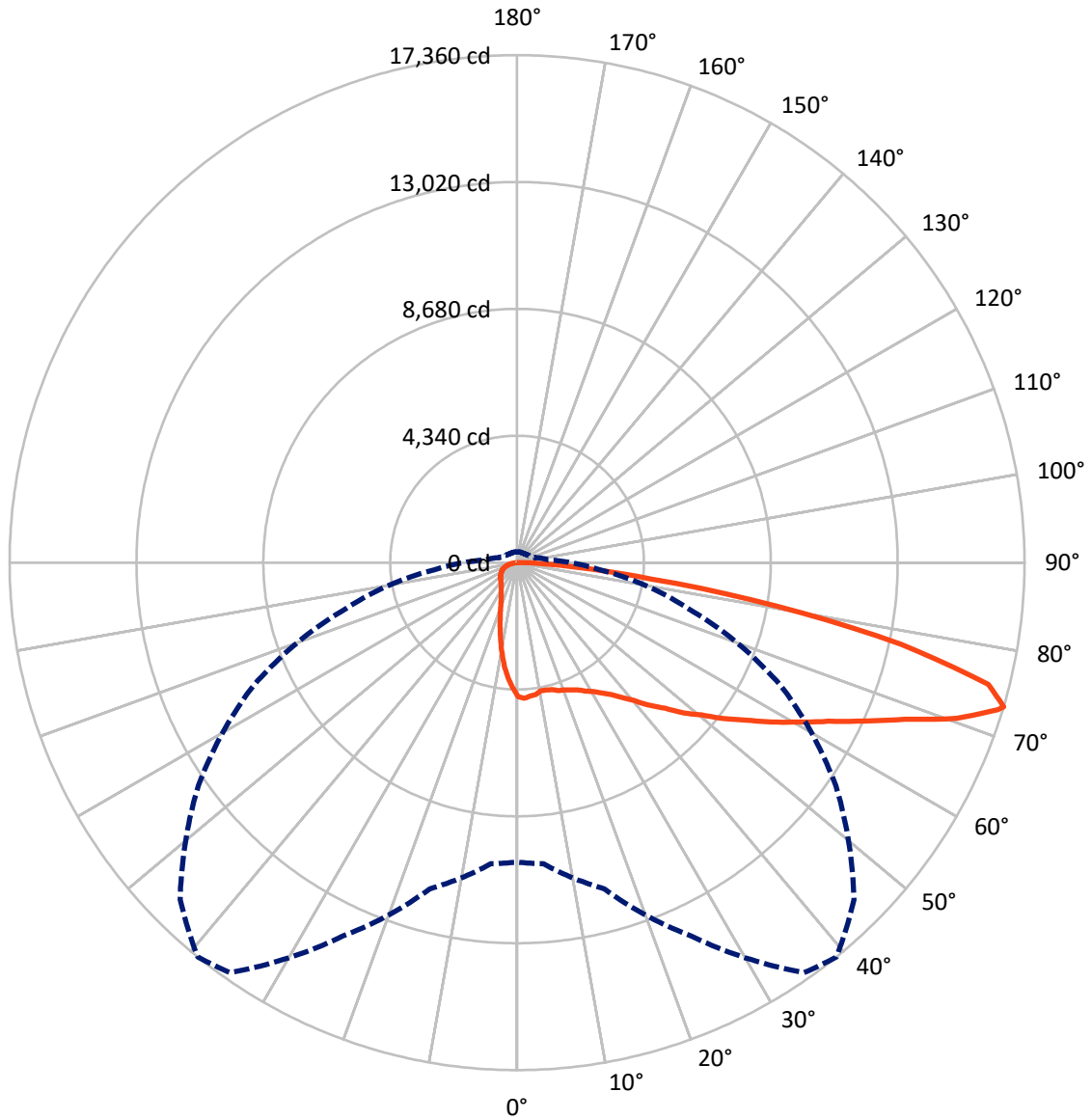
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3619.6	0.0	3619.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22129.6	0.0	22129.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	25749.2	0.0	25749.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.9	1.5
10°-20°	1011.5	3.9
20°-30°	1545.7	6.0
30°-40°	2253.6	8.8
40°-50°	3405.4	13.2
50°-60°	4931.3	19.2
60°-70°	6265.4	24.3
70°-80°	5079.1	19.7
80°-90°	859.4	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°	25749.2	100.0
0°-180°	25749.2	100.0

Coefficient of Utilization



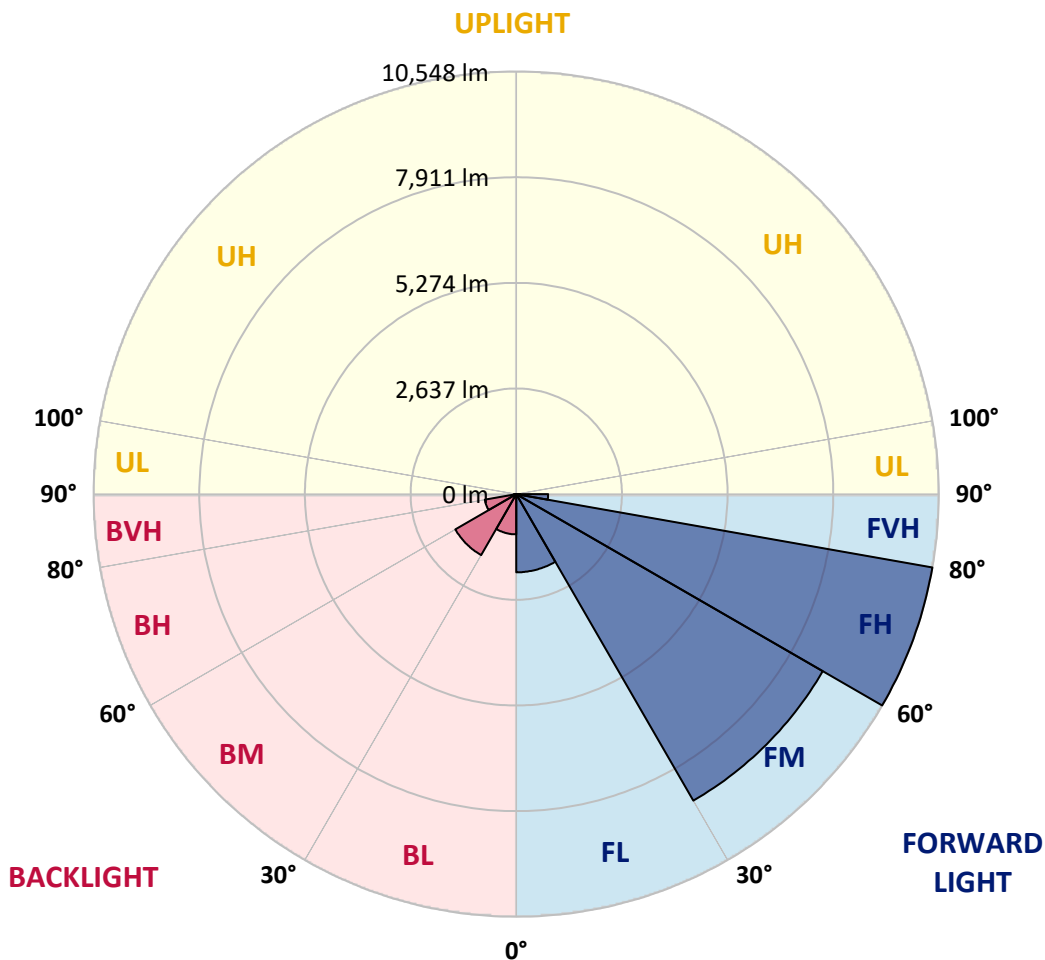
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1951.2	7.6			
FM (30°-60°)	8833.6	34.3			
FH (60°-80°)	10548.4	41.0			G4/12000
FVH (80°-90°)	796.3	3.1			G5
BL (0°-30°)	1003.8	3.9	B3/2500		
BM (30°-60°)	1756.7	6.8	B2/2500		
BH (60°-80°)	796.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	63.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5
2.5°	4693.0	4644.0	4652.6	4635.4	4652.6	4646.9	4638.2	4595.0	4638.2	4595.0	4583.5
5°	4629.6	4629.6	4658.4	4615.2	4621.0	4592.2	4621.0	4589.3	4560.5	4488.4	4468.3
7.5°	4609.4	4606.6	4609.4	4548.9	4577.7	4560.5	4531.7	4497.1	4439.5	4393.4	4327.1
10°	4471.2	4500.0	4468.3	4485.6	4508.6	4456.7	4453.9	4445.2	4419.3	4358.8	4318.5
12.5°	4396.2	4445.2	4462.5	4448.1	4468.3	4474.0	4456.7	4445.2	4413.5	4373.2	4258.0
15°	4427.9	4370.3	4419.3	4514.4	4494.2	4508.6	4511.5	4500.0	4485.6	4410.7	4335.8
17.5°	4436.6	4402.0	4505.7	4525.9	4551.8	4603.7	4569.1	4566.2	4511.5	4459.6	4350.2
20°	4456.7	4442.3	4525.9	4632.5	4635.4	4644.0	4661.3	4618.1	4589.3	4500.0	4332.9
22.5°	4531.7	4580.6	4658.4	4704.5	4730.4	4736.2	4736.2	4649.8	4618.1	4546.1	4413.5
25°	4756.4	4704.5	4814.0	4868.7	4831.3	4822.6	4802.5	4724.7	4690.1	4626.7	4451.0
27.5°	4920.6	4917.7	4981.1	5056.0	4955.1	4975.3	4903.3	4880.2	4802.5	4767.9	4517.2
30°	5145.3	5208.7	5205.8	5228.8	5096.3	5119.4	5027.2	4984.0	4940.7	4960.9	4713.1
32.5°	5433.4	5410.3	5447.8	5430.5	5298.0	5318.1	5208.7	5142.4	5156.8	5217.3	4981.1
35°	5617.8	5594.7	5609.1	5609.1	5568.8	5545.7	5499.6	5413.2	5482.3	5594.7	5280.7
37.5°	5816.5	5845.3	5928.9	5911.6	5859.7	5859.7	5854.0	5793.5	5882.8	6159.4	5758.9
40°	5992.3	6070.1	6121.9	6156.5	6217.0	6217.0	6266.0	6231.4	6392.7	6836.4	6343.7
42.5°	6176.6	6179.5	6461.9	6487.8	6623.2	6680.8	6718.3	6747.1	7049.6	7545.1	6968.9
45°	6412.9	6427.3	6675.0	6873.8	7084.1	7104.3	7245.5	7340.5	7712.2	8320.0	7648.8
47.5°	6724.0	6706.7	6971.8	7288.7	7550.8	7689.1	7859.1	7962.8	8420.9	9161.3	8392.1
50°	7133.1	7081.2	7233.9	7732.3	8040.6	8193.3	8495.8	8668.6	9204.5	9965.0	8902.0
52.5°	7631.5	7545.1	7666.1	8210.6	8556.3	8864.5	9152.6	9345.6	9904.5	10587.3	9279.4
55°	8158.7	7980.1	8014.7	8717.6	9216.0	9507.0	9901.6	10103.3	10673.7	11146.2	9656.8
57.5°	8680.1	8567.8	8498.6	9204.5	10002.5	10281.9	10644.9	10907.1	11391.1	11641.7	9976.5
60°	9118.0	9089.2	8976.9	9959.3	10835.1	11074.2	11454.4	11615.8	11981.7	12099.8	9982.3
62.5°	9478.2	9380.2	9558.8	10567.1	11682.0	11952.8	12370.6	12385.0	12644.3	12385.0	9688.5
65°	9760.5	9766.2	10051.5	11301.8	12661.5	13062.0	13399.1	13361.6	13194.5	12215.0	8994.2
67.5°	10016.9	10126.4	10544.1	12108.4	13920.5	14297.9	14672.4	14176.9	13344.3	11419.9	7637.3
70°	10218.5	10328.0	11209.6	13090.8	15404.2	15957.3	16040.8	14499.6	12655.8	9674.1	5761.8
72.5°	10195.5	10394.3	11587.0	13874.4	16720.7	17199.0	16524.8	13592.1	10544.1	6744.2	3362.0
73°	10244.5	10342.4	11555.3	14093.4	17121.2	17360.3	16300.1	13306.9	9944.9	6049.9	2843.4
75°	9299.5	9630.8	10982.0	13736.1	16691.9	16648.7	15009.5	11088.6	7069.7	3177.6	1377.1
77.5°	6879.6	7089.9	8654.2	11296.0	13701.5	13425.0	11321.9	7087.0	3356.2	1178.3	743.3
80°	3362.0	3526.2	4586.4	6522.4	8959.6	8982.6	7026.5	3687.5	1437.6	665.5	507.0
82.5°	1679.6	1777.5	2203.9	2866.5	4407.8	4618.1	3563.7	2097.3	890.2	377.4	288.1
85°	1097.6	1166.8	1356.9	1403.0	1869.7	1973.4	1659.4	1636.3	579.1	204.5	233.4
87.5°	728.9	740.4	832.6	708.7	749.0	720.2	800.9	1031.4	170.0	86.4	63.4
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°	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5	4583.5
2.5°	4569.1	4528.8	4485.6	4425.1	4381.8	4315.6	4255.1	4229.2	4223.4	4226.3	4197.5
5°	4451.0	4393.4	4306.9	4183.1	4111.0	4001.6	3909.4	3860.4	3808.5	3817.2	3794.1
7.5°	4286.8	4223.4	4090.9	3946.8	3768.2	3612.6	3526.2	3405.2	3336.1	3284.2	3313.0
10°	4234.9	4125.4	3926.7	3727.9	3451.3	3246.8	3048.0	2909.7	2814.6	2722.4	2762.8
12.5°	4209.0	4099.5	3823.0	3529.1	3171.9	2860.7	2581.3	2411.3	2275.9	2195.2	2226.9
15°	4185.9	4050.5	3725.0	3310.2	2909.7	2500.6	2186.6	1961.9	1832.3	1754.5	1763.1
17.5°	4217.6	4024.6	3581.0	3097.0	2621.6	2183.7	1835.1	1601.8	1469.3	1420.3	1408.8
20°	4185.9	3995.8	3439.8	2883.8	2333.5	1881.2	1547.0	1354.0	1261.8	1221.5	1212.9
22.5°	4197.5	3926.7	3292.9	2647.5	2065.6	1627.7	1354.0	1207.1	1135.1	1114.9	1120.7
25°	4252.2	3886.3	3145.9	2388.3	1800.6	1440.4	1230.1	1117.8	1065.9	1045.8	1051.5
27.5°	4292.5	3920.9	3013.4	2143.4	1575.9	1273.4	1126.4	1051.5	1017.0	1002.6	999.7
30°	4393.4	3941.1	2883.8	1924.4	1391.5	1163.9	1054.4	993.9	970.9	962.2	959.3
32.5°	4543.2	3978.5	2734.0	1722.8	1256.1	1060.2	996.8	944.9	939.2	930.5	933.4
35°	4788.1	4108.2	2566.9	1549.9	1126.4	991.0	936.3	901.7	901.7	901.7	910.4
37.5°	5139.5	4289.7	2417.1	1385.7	1042.9	930.5	884.4	872.9	867.2	875.8	881.6
40°	5591.8	4508.6	2296.1	1256.1	970.9	890.2	849.9	844.1	841.2	838.3	844.1
42.5°	6087.3	4788.1	2192.4	1155.2	919.0	847.0	818.2	812.4	800.9	806.7	815.3
45°	6580.0	5133.8	2100.2	1074.6	884.4	823.9	783.6	780.7	775.0	772.1	786.5
47.5°	7127.3	5473.7	2071.4	1025.6	858.5	789.4	760.6	757.7	740.4	737.5	749.0
50°	7553.7	5724.3	2103.1	1002.6	821.1	763.4	743.3	728.9	714.5	700.1	700.1
52.5°	7847.6	5897.2	2126.1	985.3	800.9	728.9	702.9	697.2	682.8	668.4	662.6
55°	8112.6	6000.9	2131.9	988.1	780.7	688.5	671.2	668.4	659.7	636.7	630.9
57.5°	8201.9	5957.7	2016.6	962.2	769.2	662.6	639.6	645.3	633.8	613.6	610.8
60°	8193.3	5658.1	1754.5	927.6	743.3	633.8	605.0	622.3	622.3	599.2	596.3
62.5°	7694.9	4966.7	1434.7	861.4	714.5	605.0	573.3	599.2	607.9	593.5	590.6
65°	6660.6	4044.8	1198.5	795.1	671.2	573.3	541.6	570.4	584.8	579.1	576.2
67.5°	5511.2	3094.1	996.8	708.7	616.5	530.1	504.2	524.3	533.0	535.8	538.7
70°	3895.0	2059.8	832.6	613.6	541.6	484.0	455.2	458.1	455.2	463.8	463.8
72.5°	2117.5	1186.9	677.0	521.4	466.7	420.6	400.4	386.0	386.0	383.2	383.2
73°	1812.1	1065.9	645.3	507.0	446.5	409.1	386.0	374.5	374.5	371.6	368.8
75°	1017.0	780.7	553.1	435.0	386.0	357.2	339.9	322.7	319.8	319.8	319.8
77.5°	668.4	607.9	440.8	348.6	311.1	285.2	279.4	262.2	262.2	262.2	259.3
80°	501.3	478.2	339.9	265.0	239.1	218.9	213.2	201.7	198.8	187.3	190.1
82.5°	334.2	377.4	247.8	187.3	161.3	149.8	149.8	146.9	138.3	123.9	123.9
85°	265.0	308.3	178.6	115.2	95.1	80.7	83.5	80.7	77.8	63.4	60.5
87.5°	49.0	123.9	51.9	31.7	23.0	14.4	14.4	8.6	5.8	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)