

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: P481058

Luminaire Tested: **IFLD-S-SA6B-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481058
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

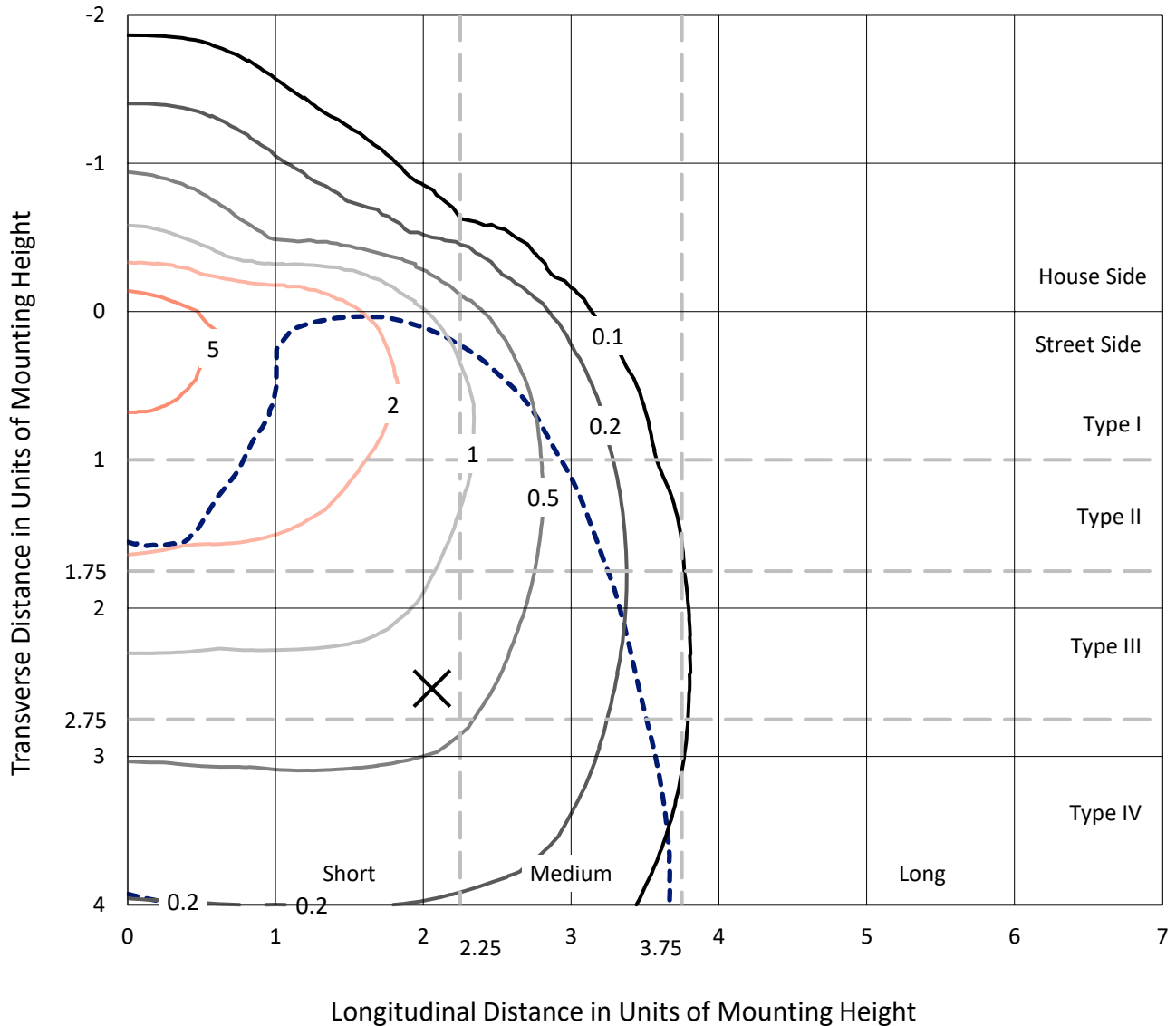
Lumens per Lamp: N/A
Luminaire Lumens: 25655.6 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

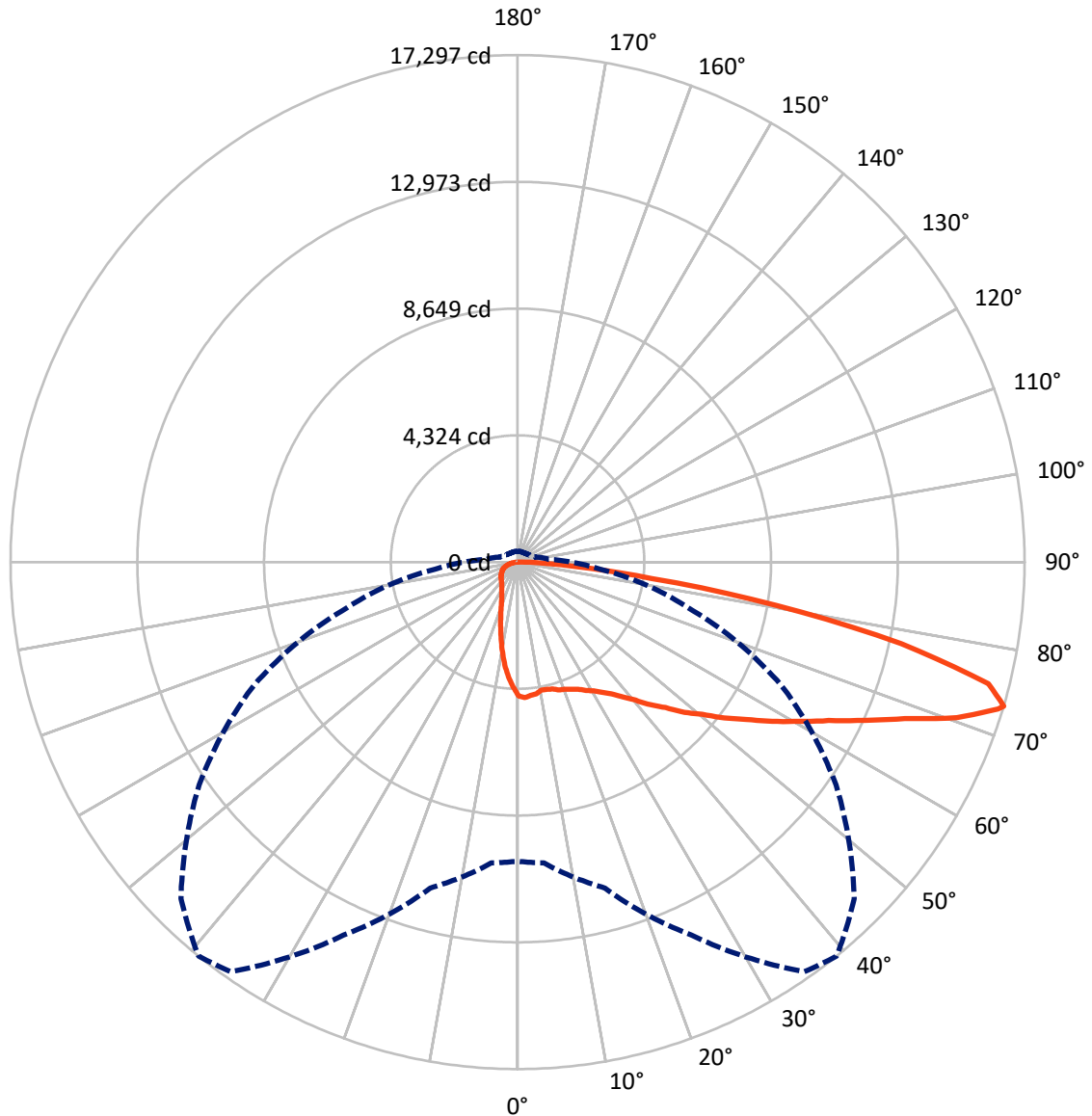
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3606.5	0.0	3606.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22049.2	0.0	22049.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	25655.6	0.0	25655.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.4	1.5
10°-20°	1007.8	3.9
20°-30°	1540.0	6.0
30°-40°	2245.4	8.8
40°-50°	3393.1	13.2
50°-60°	4913.4	19.2
60°-70°	6242.6	24.3
70°-80°	5060.6	19.7
80°-90°	856.2	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°	25655.6	100.0
0°-180°	25655.6	100.0

Coefficient of Utilization



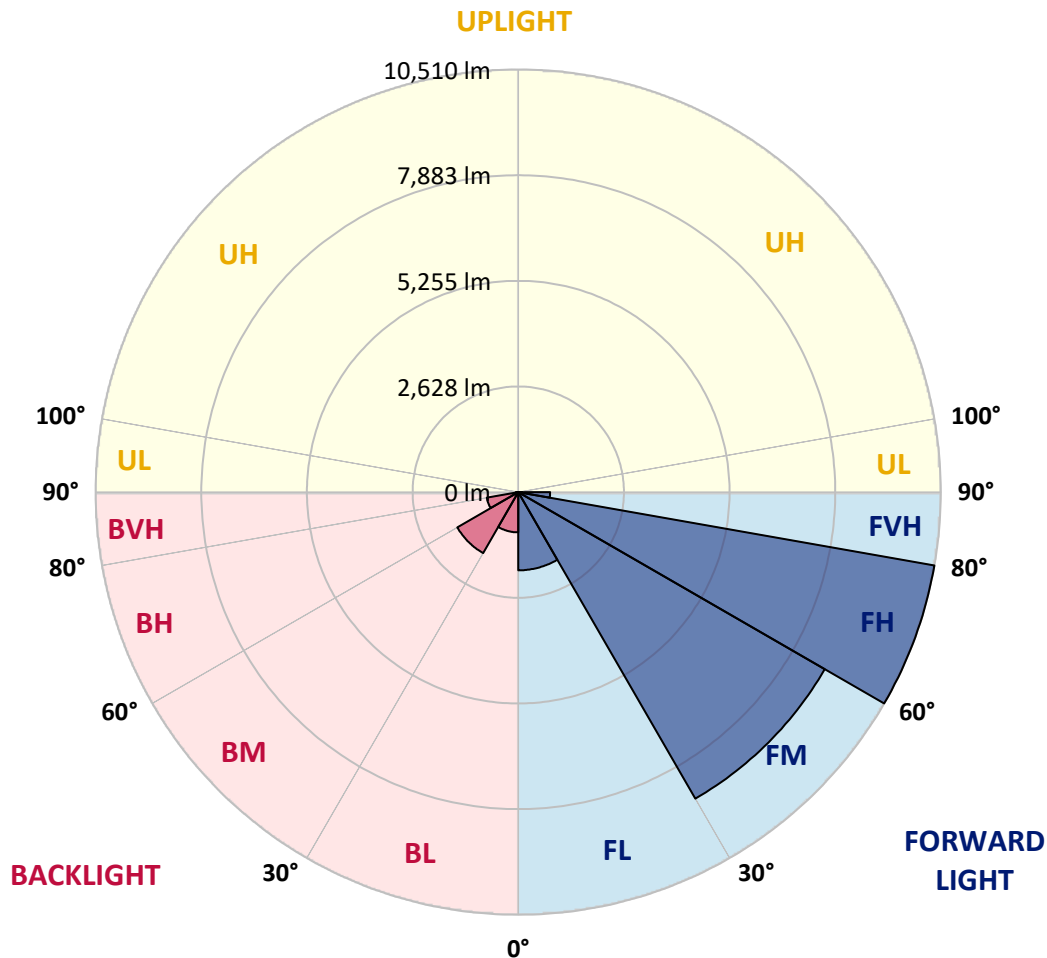
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1944.1	7.6			
FM (30°-60°)	8801.5	34.3			
FH (60°-80°)	10510.1	41.0			G4/12000
FVH (80°-90°)	793.4	3.1			G5
BL (0°-30°)	1000.1	3.9	B3/2500		
BM (30°-60°)	1750.3	6.8	B2/2500		
BH (60°-80°)	793.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	62.8	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°	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9
2.5°	4675.9	4627.1	4635.8	4618.5	4635.8	4630.0	4621.4	4578.3	4621.4	4578.3	4566.9
5°	4612.8	4612.8	4641.5	4598.4	4604.2	4575.5	4604.2	4572.6	4543.9	4472.1	4452.0
7.5°	4592.7	4589.8	4592.7	4532.4	4561.1	4543.9	4515.2	4480.7	4423.3	4377.4	4311.4
10°	4454.9	4483.6	4452.0	4469.3	4492.2	4440.6	4437.7	4429.1	4403.2	4343.0	4302.8
12.5°	4380.3	4429.1	4446.3	4431.9	4452.0	4457.8	4440.6	4429.1	4397.5	4357.3	4242.5
15°	4411.9	4354.4	4403.2	4498.0	4477.9	4492.2	4495.1	4483.6	4469.3	4394.6	4320.0
17.5°	4420.5	4386.0	4489.4	4509.5	4535.3	4587.0	4552.5	4549.6	4495.1	4443.4	4334.4
20°	4440.6	4426.2	4509.5	4615.7	4618.5	4627.1	4644.4	4601.3	4572.6	4483.6	4317.1
22.5°	4515.2	4564.0	4641.5	4687.4	4713.3	4719.0	4719.0	4632.9	4601.3	4529.5	4397.5
25°	4739.1	4687.4	4796.5	4851.0	4813.7	4805.1	4785.0	4707.5	4673.1	4609.9	4434.8
27.5°	4902.7	4899.8	4963.0	5037.6	4937.1	4957.2	4885.5	4862.5	4785.0	4750.6	4500.8
30°	5126.6	5189.7	5186.9	5209.8	5077.8	5100.8	5008.9	4965.9	4922.8	4942.9	4696.0
32.5°	5413.6	5390.7	5428.0	5410.8	5278.7	5298.8	5189.7	5123.7	5138.1	5198.4	4963.0
35°	5597.3	5574.4	5588.7	5588.7	5548.5	5525.6	5479.7	5393.5	5462.4	5574.4	5261.5
37.5°	5795.4	5824.1	5907.4	5890.1	5838.5	5838.5	5832.7	5772.4	5861.4	6137.0	5738.0
40°	5970.5	6048.0	6099.7	6134.1	6194.4	6194.4	6243.2	6208.7	6369.5	6811.5	6320.7
42.5°	6154.2	6157.1	6438.4	6464.2	6599.1	6656.5	6693.9	6722.6	7024.0	7517.7	6943.6
45°	6389.6	6403.9	6650.8	6848.9	7058.4	7078.5	7219.1	7313.9	7684.2	8289.8	7621.0
47.5°	6699.6	6682.4	6946.4	7262.2	7523.4	7661.2	7830.5	7933.9	8390.3	9128.0	8361.6
50°	7107.2	7055.5	7207.7	7704.2	8011.4	8163.5	8464.9	8637.1	9171.0	9928.8	8869.6
52.5°	7603.8	7517.7	7638.2	8180.7	8525.2	8832.3	9119.4	9311.7	9868.6	10548.8	9245.7
55°	8129.1	7951.1	7985.5	8685.9	9182.5	9472.4	9865.7	10066.6	10635.0	11105.7	9621.7
57.5°	8648.6	8536.7	8467.8	9171.0	9966.1	10244.6	10606.3	10867.5	11349.7	11599.4	9940.3
60°	9084.9	9056.2	8944.3	9923.1	10795.7	11033.9	11412.8	11573.6	11938.1	12055.8	9946.1
62.5°	9443.7	9346.1	9524.1	10528.8	11639.6	11909.4	12325.6	12340.0	12598.3	12340.0	9653.3
65°	9725.0	9730.8	10014.9	11260.7	12615.6	13014.5	13350.4	13313.1	13146.6	12170.6	8961.5
67.5°	9980.5	10089.6	10505.8	12064.4	13869.9	14246.0	14619.1	14125.4	13295.8	11378.4	7609.5
70°	10181.4	10290.5	11168.9	13043.3	15348.2	15899.3	15982.6	14446.9	12609.8	9638.9	5740.9
72.5°	10158.5	10356.5	11544.9	13824.0	16660.0	17136.5	16464.8	13542.7	10505.8	6719.7	3349.8
73°	10207.3	10304.9	11513.3	14042.2	17059.0	17297.2	16240.9	13258.5	9908.7	6027.9	2833.1
75°	9265.8	9595.9	10942.1	13686.2	16631.3	16588.2	14955.0	11048.3	7044.0	3166.1	1372.1
77.5°	6854.6	7064.1	8622.8	11255.0	13651.8	13376.2	11280.8	7061.3	3344.1	1174.0	740.6
80°	3349.8	3513.4	4569.7	6498.7	8927.0	8950.0	7001.0	3674.2	1432.3	663.1	505.2
82.5°	1673.5	1771.1	2195.9	2856.1	4391.8	4601.3	3550.7	2089.7	887.0	376.0	287.0
85°	1093.6	1162.5	1352.0	1397.9	1862.9	1966.2	1653.4	1630.4	577.0	203.8	232.5
87.5°	726.2	737.7	829.6	706.1	746.3	717.6	798.0	1027.6	169.4	86.1	63.1
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°	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9
2.5°	4552.5	4512.3	4469.3	4409.0	4365.9	4299.9	4239.6	4213.8	4208.1	4210.9	4182.2
5°	4434.8	4377.4	4291.3	4167.9	4096.1	3987.0	3895.2	3846.4	3794.7	3803.3	3780.4
7.5°	4271.2	4208.1	4076.0	3932.5	3754.5	3599.5	3513.4	3392.9	3324.0	3272.3	3301.0
10°	4219.5	4110.5	3912.4	3714.3	3438.8	3235.0	3036.9	2899.1	2804.4	2712.6	2752.7
12.5°	4193.7	4084.6	3809.1	3516.3	3160.3	2850.3	2571.9	2402.6	2267.6	2187.3	2218.8
15°	4170.7	4035.8	3711.5	3298.1	2899.1	2491.5	2178.7	1954.8	1825.6	1748.1	1756.7
17.5°	4202.3	4010.0	3567.9	3085.7	2612.1	2175.8	1828.5	1596.0	1463.9	1415.1	1403.6
20°	4170.7	3981.3	3427.3	2873.3	2325.1	1874.4	1541.4	1349.1	1257.2	1217.1	1208.5
22.5°	4182.2	3912.4	3280.9	2637.9	2058.1	1621.8	1349.1	1202.7	1131.0	1110.9	1116.6
25°	4236.8	3872.2	3134.5	2379.6	1794.0	1435.2	1225.7	1113.7	1062.1	1042.0	1047.7
27.5°	4276.9	3906.7	3002.5	2135.6	1570.1	1268.7	1122.3	1047.7	1013.3	998.9	996.0
30°	4377.4	3926.8	2873.3	1917.4	1386.4	1159.7	1050.6	990.3	967.3	958.7	955.9
32.5°	4526.7	3964.1	2724.0	1716.5	1251.5	1056.3	993.2	941.5	935.8	927.2	930.0
35°	4770.7	4093.2	2557.6	1544.3	1122.3	987.4	932.9	898.4	898.4	898.4	907.1
37.5°	5120.9	4274.1	2408.3	1380.7	1039.1	927.2	881.2	869.7	864.0	872.6	878.4
40°	5571.5	4492.2	2287.7	1251.5	967.3	887.0	846.8	841.0	838.2	835.3	841.0
42.5°	6065.2	4770.7	2184.4	1151.0	915.7	843.9	815.2	809.5	798.0	803.7	812.3
45°	6556.1	5115.1	2092.5	1070.7	881.2	820.9	780.8	777.9	772.1	769.3	783.6
47.5°	7101.5	5453.8	2063.8	1021.9	855.4	786.5	757.8	754.9	737.7	734.8	746.3
50°	7526.3	5703.6	2095.4	998.9	818.1	760.7	740.6	726.2	711.9	697.5	697.5
52.5°	7819.1	5875.8	2118.4	981.7	798.0	726.2	700.4	694.6	680.3	665.9	660.2
55°	8083.1	5979.1	2124.1	984.6	777.9	686.0	668.8	665.9	657.3	634.4	628.6
57.5°	8172.1	5936.1	2009.3	958.7	766.4	660.2	637.2	643.0	631.5	611.4	608.5
60°	8163.5	5637.5	1748.1	924.3	740.6	631.5	602.8	620.0	620.0	597.1	594.2
62.5°	7666.9	4948.6	1429.5	858.3	711.9	602.8	571.2	597.1	605.7	591.3	588.4
65°	6636.4	4030.1	1194.1	792.2	668.8	571.2	539.6	568.3	582.7	577.0	574.1
67.5°	5491.1	3082.8	993.2	706.1	614.3	528.2	502.3	522.4	531.0	533.9	536.8
70°	3880.8	2052.4	829.6	611.4	539.6	482.2	453.5	456.4	453.5	462.1	462.1
72.5°	2109.8	1182.6	674.6	519.5	465.0	419.1	399.0	384.6	384.6	381.8	381.8
73°	1805.5	1062.1	643.0	505.2	444.9	407.6	384.6	373.2	373.2	370.3	367.4
75°	1013.3	777.9	551.1	433.4	384.6	355.9	338.7	321.5	318.6	318.6	318.6
77.5°	665.9	605.7	439.2	347.3	310.0	284.2	278.4	261.2	261.2	261.2	258.3
80°	499.5	476.5	338.7	264.1	238.2	218.2	212.4	200.9	198.1	186.6	189.4
82.5°	333.0	376.0	246.9	186.6	160.7	149.3	149.3	146.4	137.8	123.4	123.4
85°	264.1	307.1	178.0	114.8	94.7	80.4	83.2	80.4	77.5	63.1	60.3
87.5°	48.8	123.4	51.7	31.6	23.0	14.4	14.4	8.6	5.7	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)