

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: P480756

Luminaire Tested: **IFLD-L-SA7B-722-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480756  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-722-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

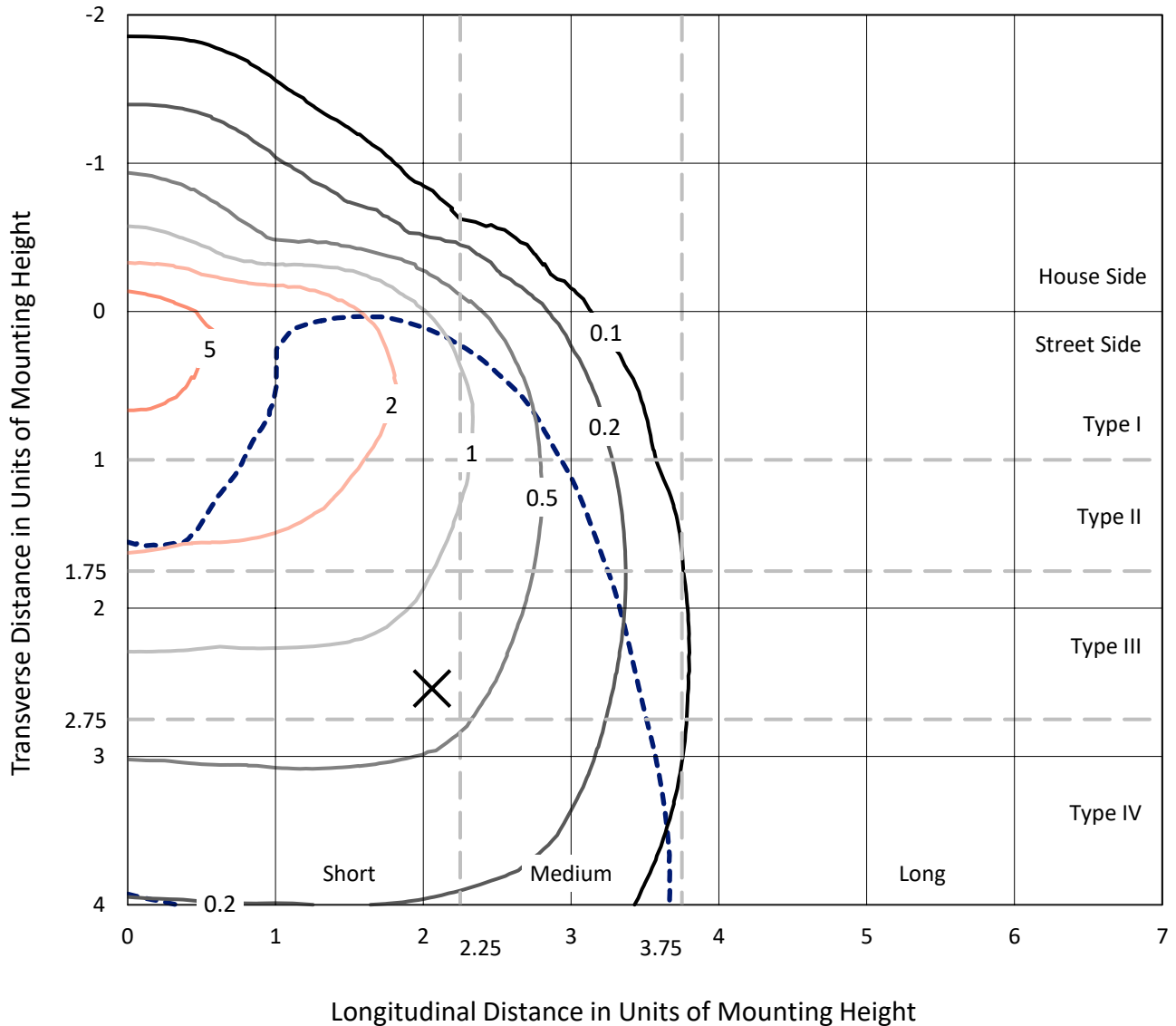
Lumens per Lamp: N/A  
Luminaire Lumens: 25373.6 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 281  
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

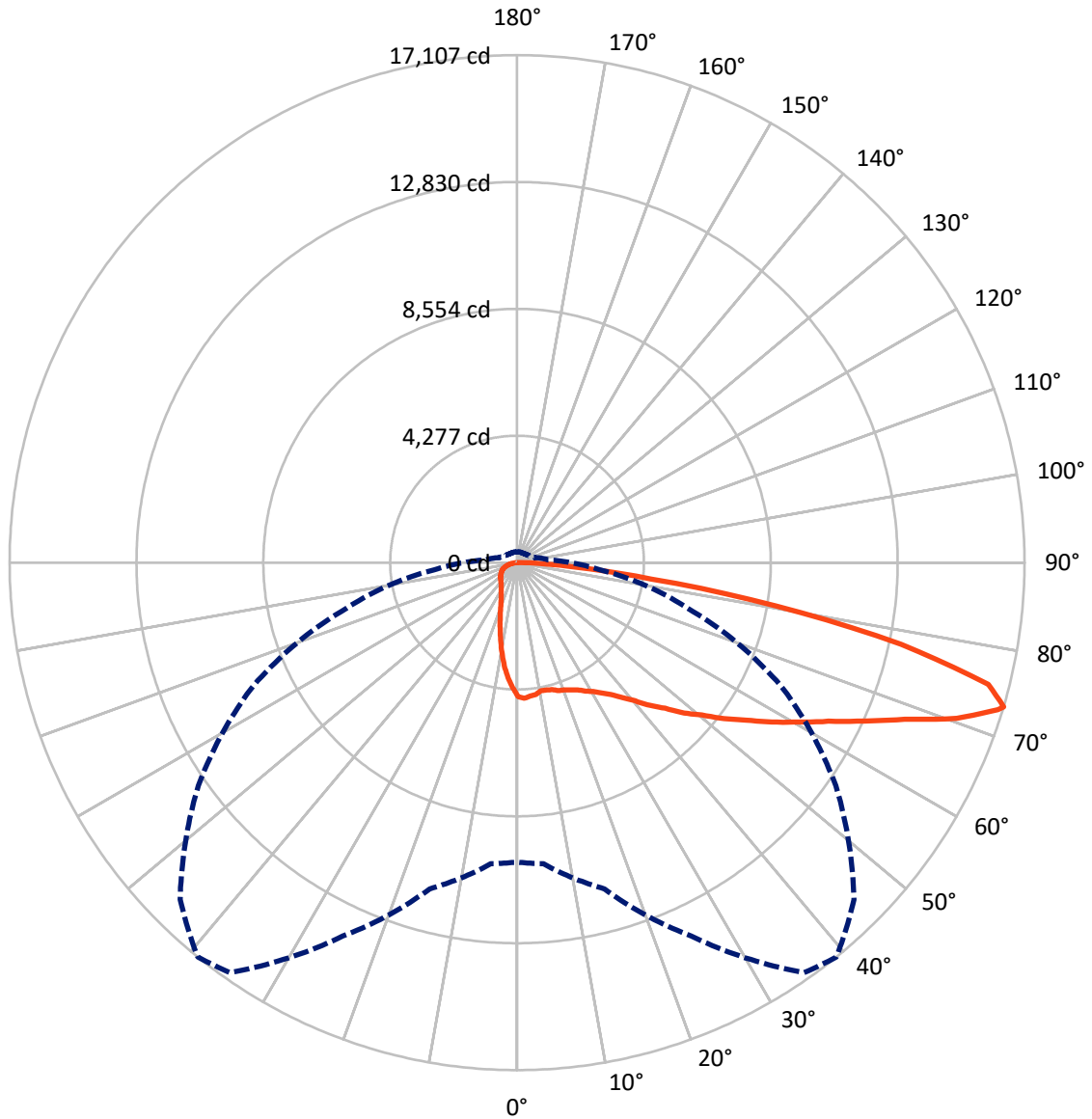
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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
<b>House Side</b>	Lumens	3566.8	0.0	3566.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	21806.7	0.0	21806.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	25373.6	0.0	25373.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.1	1.5
10°-20°	996.7	3.9
20°-30°	1523.1	6.0
30°-40°	2220.7	8.8
40°-50°	3355.8	13.2
50°-60°	4859.3	19.2
60°-70°	6174.0	24.3
70°-80°	5005.0	19.7
80°-90°	846.8	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°	25373.6	100.0
0°-180°	25373.6	100.0

**Coefficient of Utilization**



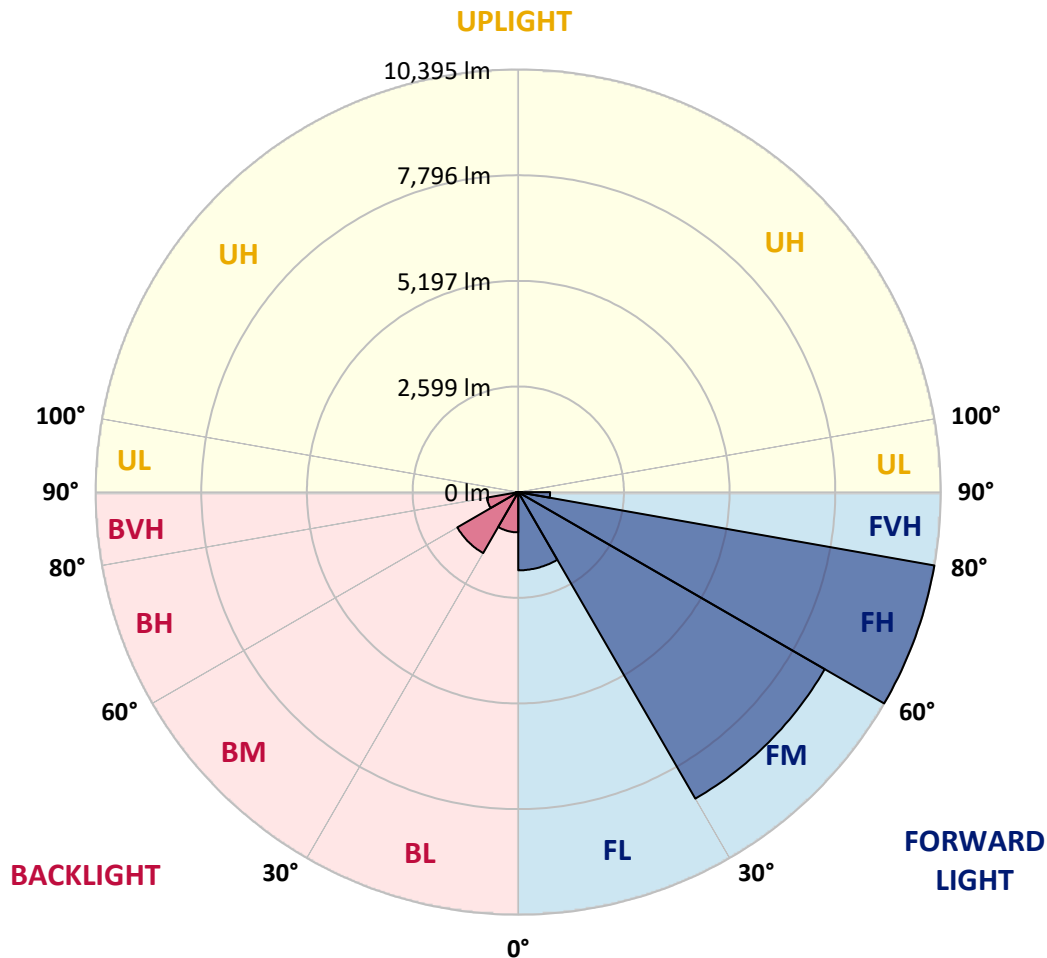
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.8	7.6			
FM (30°-60°)	8704.8	34.3			
FH (60°-80°)	10394.5	41.0			G4/12000
FVH (80°-90°)	784.7	3.1			G5
BL (0°-30°)	989.2	3.9	B2/1000		
BM (30°-60°)	1731.1	6.8	B2/2500		
BH (60°-80°)	784.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	62.1	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6
2.5°	4624.5	4576.3	4584.8	4567.7	4584.8	4579.1	4570.6	4528.0	4570.6	4528.0	4516.6
5°	4562.1	4562.1	4590.5	4547.9	4553.6	4525.2	4553.6	4522.3	4493.9	4423.0	4403.1
7.5°	4542.2	4539.4	4542.2	4482.6	4511.0	4493.9	4465.5	4431.5	4374.7	4329.3	4264.0
10°	4405.9	4434.3	4403.1	4420.1	4442.8	4391.7	4388.9	4380.4	4354.8	4295.2	4255.5
12.5°	4332.1	4380.4	4397.4	4383.2	4403.1	4408.8	4391.7	4380.4	4349.2	4309.4	4195.9
15°	4363.3	4306.6	4354.8	4448.5	4428.6	4442.8	4445.7	4434.3	4420.1	4346.3	4272.5
17.5°	4371.9	4337.8	4440.0	4459.9	4485.4	4536.5	4502.5	4499.6	4445.7	4394.6	4286.7
20°	4391.7	4377.5	4459.9	4564.9	4567.7	4576.3	4593.3	4550.7	4522.3	4434.3	4269.7
22.5°	4465.5	4513.8	4590.5	4635.9	4661.4	4667.1	4667.1	4581.9	4550.7	4479.7	4349.2
25°	4687.0	4635.9	4743.8	4797.7	4760.8	4752.3	4732.4	4655.8	4621.7	4559.2	4386.1
27.5°	4848.8	4846.0	4908.4	4982.2	4882.9	4902.7	4831.8	4809.1	4732.4	4698.3	4451.4
30°	5070.2	5132.7	5129.8	5152.6	5022.0	5044.7	4953.8	4911.2	4868.7	4888.5	4644.4
32.5°	5354.1	5331.4	5368.3	5351.3	5220.7	5240.6	5132.7	5067.4	5081.6	5141.2	4908.4
35°	5535.8	5513.1	5527.3	5527.3	5487.5	5464.8	5419.4	5334.2	5402.4	5513.1	5203.7
37.5°	5731.7	5760.1	5842.4	5825.4	5774.3	5774.3	5768.6	5709.0	5797.0	6069.5	5674.9
40°	5904.9	5981.5	6032.6	6066.7	6126.3	6126.3	6174.5	6140.5	6299.5	6736.6	6251.2
42.5°	6086.5	6089.4	6367.6	6393.1	6526.6	6583.3	6620.3	6648.6	6946.7	7435.0	6867.2
45°	6319.3	6333.5	6577.7	6773.6	6980.8	7000.7	7139.8	7233.4	7599.7	8198.7	7537.2
47.5°	6625.9	6608.9	6870.1	7182.3	7440.7	7577.0	7744.4	7846.6	8298.0	9027.6	8269.6
50°	7029.0	6977.9	7128.4	7619.5	7923.3	8073.8	8371.8	8542.2	9070.2	9819.7	8772.1
52.5°	7520.2	7435.0	7554.2	8090.8	8431.5	8735.2	9019.1	9209.3	9760.0	10432.9	9144.0
55°	8039.7	7863.7	7897.7	8590.4	9081.6	9368.3	9757.2	9955.9	10518.0	10983.6	9515.9
57.5°	8553.5	8442.8	8374.7	9070.2	9856.6	10131.9	10489.6	10748.0	11224.9	11471.9	9831.0
60°	8985.0	8956.6	8845.9	9814.0	10677.0	10912.6	11287.4	11446.3	11806.9	11923.3	9836.7
62.5°	9339.9	9243.4	9419.4	10413.0	11511.6	11778.5	12190.1	12204.3	12459.8	12204.3	9547.1
65°	9618.1	9623.8	9904.8	11136.9	12476.8	12871.4	13203.6	13166.7	13002.0	12036.8	8863.0
67.5°	9870.8	9978.6	10390.3	11931.8	13717.4	14089.3	14458.4	13970.1	13149.7	11253.3	7525.9
70°	10069.5	10177.4	11046.1	12899.8	15179.5	15724.5	15806.8	14288.0	12471.2	9532.9	5677.7
72.5°	10046.8	10242.7	11417.9	13672.0	16476.8	16948.1	16283.8	13393.8	10390.3	6645.8	3313.0
73°	10095.0	10191.6	11386.7	13887.8	16871.4	17107.0	16062.3	13112.8	9799.8	5961.6	2802.0
75°	9163.9	9490.4	10821.8	13535.7	16448.4	16405.8	14790.5	10926.8	6966.6	3131.3	1357.0
77.5°	6779.2	6986.5	8528.0	11131.2	13501.7	13229.1	11156.8	6983.6	3307.3	1161.1	732.4
80°	3313.0	3474.8	4519.5	6427.2	8828.9	8851.6	6924.0	3633.8	1416.6	655.8	499.6
82.5°	1655.1	1751.6	2171.7	2824.7	4343.5	4550.7	3511.7	2066.7	877.2	371.9	283.9
85°	1081.6	1149.7	1337.1	1382.5	1842.4	1944.6	1635.2	1612.5	570.6	201.6	229.9
87.5°	718.2	729.6	820.4	698.4	738.1	709.7	789.2	1016.3	167.5	85.2	62.5
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°	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6	4516.6
2.5°	4502.5	4462.7	4420.1	4360.5	4317.9	4252.6	4193.0	4167.5	4161.8	4164.6	4136.2
5°	4386.1	4329.3	4244.1	4122.0	4051.1	3943.2	3852.4	3804.1	3753.0	3761.5	3738.8
7.5°	4224.2	4161.8	4031.2	3889.3	3713.2	3559.9	3474.8	3355.5	3287.4	3236.3	3264.7
10°	4173.1	4065.3	3869.4	3673.5	3401.0	3199.4	3003.5	2867.3	2773.6	2682.7	2722.5
12.5°	4147.6	4039.7	3767.2	3477.6	3125.6	2819.0	2543.6	2376.1	2242.7	2163.2	2194.4
15°	4124.9	3991.5	3670.7	3261.9	2867.3	2464.1	2154.7	1933.3	1805.5	1728.9	1737.4
17.5°	4156.1	3965.9	3528.7	3051.8	2583.4	2151.9	1808.4	1578.4	1447.8	1399.6	1388.2
20°	4124.9	3937.5	3389.6	2841.7	2299.5	1853.8	1524.5	1334.3	1243.4	1203.7	1195.2
22.5°	4136.2	3869.4	3244.8	2608.9	2035.5	1604.0	1334.3	1189.5	1118.5	1098.6	1104.3
25°	4190.2	3829.6	3100.0	2353.4	1774.3	1419.4	1212.2	1101.5	1050.4	1030.5	1036.2
27.5°	4229.9	3863.7	2969.5	2112.1	1552.9	1254.8	1110.0	1036.2	1002.1	987.9	985.1
30°	4329.3	3883.6	2841.7	1896.4	1371.2	1146.9	1039.0	979.4	956.7	948.2	945.3
32.5°	4476.9	3920.5	2694.1	1697.6	1237.7	1044.7	982.2	931.2	925.5	917.0	919.8
35°	4718.2	4048.2	2529.4	1527.3	1110.0	976.6	922.6	888.6	888.6	888.6	897.1
37.5°	5064.5	4227.1	2381.8	1365.5	1027.7	917.0	871.5	860.2	854.5	863.0	868.7
40°	5510.3	4442.8	2262.6	1237.7	956.7	877.2	837.5	831.8	829.0	826.1	831.8
42.5°	5998.5	4718.2	2160.4	1138.4	905.6	834.6	806.2	800.6	789.2	794.9	803.4
45°	6484.0	5058.9	2069.5	1058.9	871.5	811.9	772.2	769.3	763.7	760.8	775.0
47.5°	7023.4	5393.9	2041.1	1010.6	846.0	777.9	749.5	746.6	729.6	726.8	738.1
50°	7443.5	5640.8	2072.4	987.9	809.1	752.3	732.4	718.2	704.0	689.8	689.8
52.5°	7733.1	5811.2	2095.1	970.9	789.2	718.2	692.7	687.0	672.8	658.6	652.9
55°	7994.3	5913.4	2100.8	973.7	769.3	678.5	661.5	658.6	650.1	627.4	621.7
57.5°	8082.3	5870.8	1987.2	948.2	758.0	652.9	630.2	635.9	624.6	604.7	601.8
60°	8073.8	5575.5	1728.9	914.1	732.4	624.6	596.2	613.2	613.2	590.5	587.6
62.5°	7582.6	4894.2	1413.8	848.8	704.0	596.2	564.9	590.5	599.0	584.8	582.0
65°	6563.5	3985.8	1181.0	783.5	661.5	564.9	533.7	562.1	576.3	570.6	567.8
67.5°	5430.8	3048.9	982.2	698.4	607.5	522.4	496.8	516.7	525.2	528.0	530.9
70°	3838.2	2029.8	820.4	604.7	533.7	476.9	448.5	451.4	448.5	457.1	457.1
72.5°	2086.6	1169.6	667.1	513.8	459.9	414.5	394.6	380.4	380.4	377.6	377.6
73°	1785.7	1050.4	635.9	499.6	440.0	403.1	380.4	369.1	369.1	366.2	363.4
75°	1002.1	769.3	545.1	428.7	380.4	352.0	335.0	318.0	315.1	315.1	315.1
77.5°	658.6	599.0	434.3	343.5	306.6	281.0	275.4	258.3	258.3	258.3	255.5
80°	494.0	471.3	335.0	261.2	235.6	215.8	210.1	198.7	195.9	184.5	187.4
82.5°	329.3	371.9	244.1	184.5	159.0	147.6	147.6	144.8	136.3	122.1	122.1
85°	261.2	303.8	176.0	113.6	93.7	79.5	82.3	79.5	76.6	62.5	59.6
87.5°	48.3	122.1	51.1	31.2	22.7	14.2	14.2	8.5	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)