

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: P480514

Luminaire Tested: **IFLD-S-SA6D-740-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480514  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-740-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

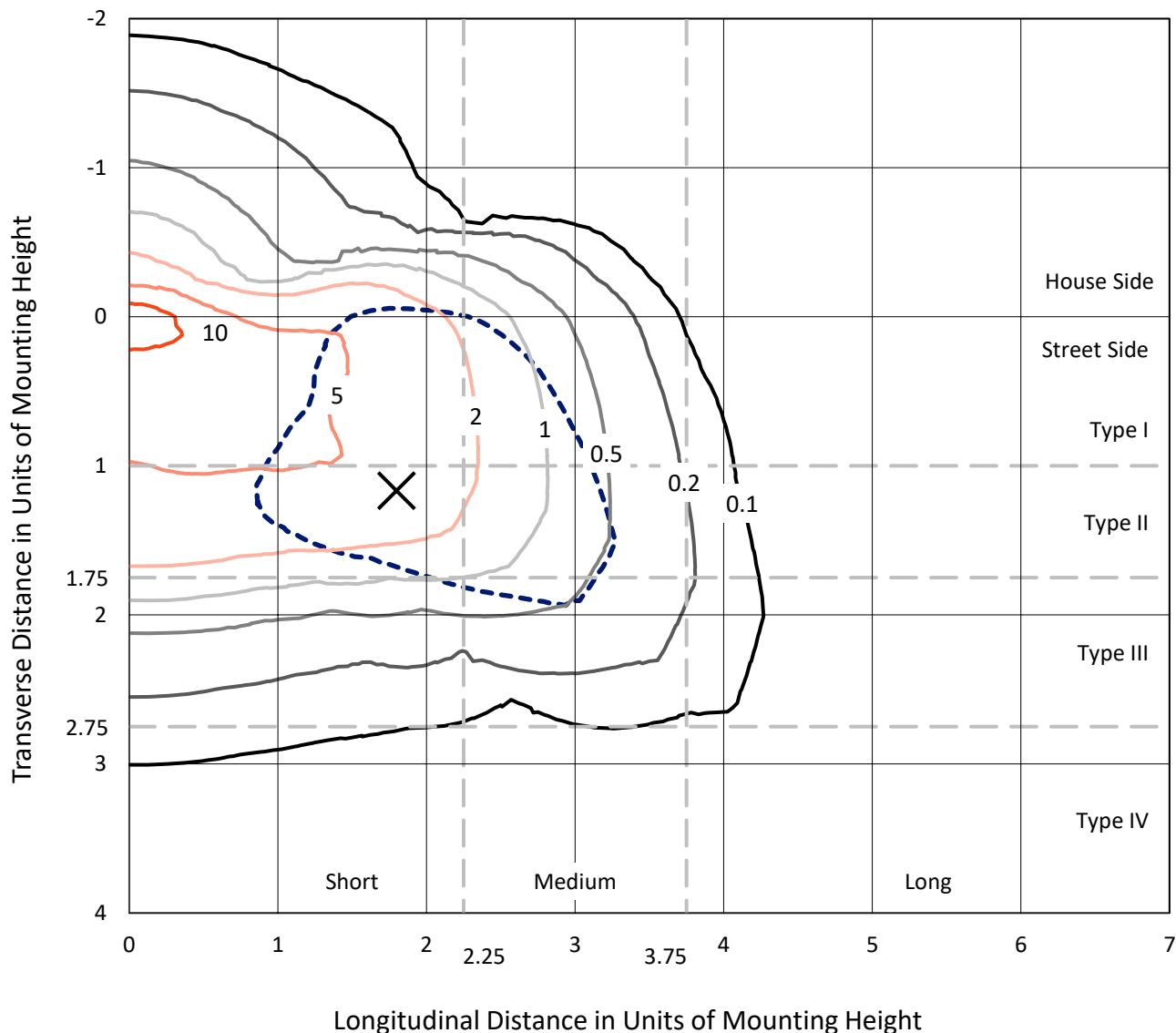
Lumens per Lamp: N/A  
Luminaire Lumens: 45114.9 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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

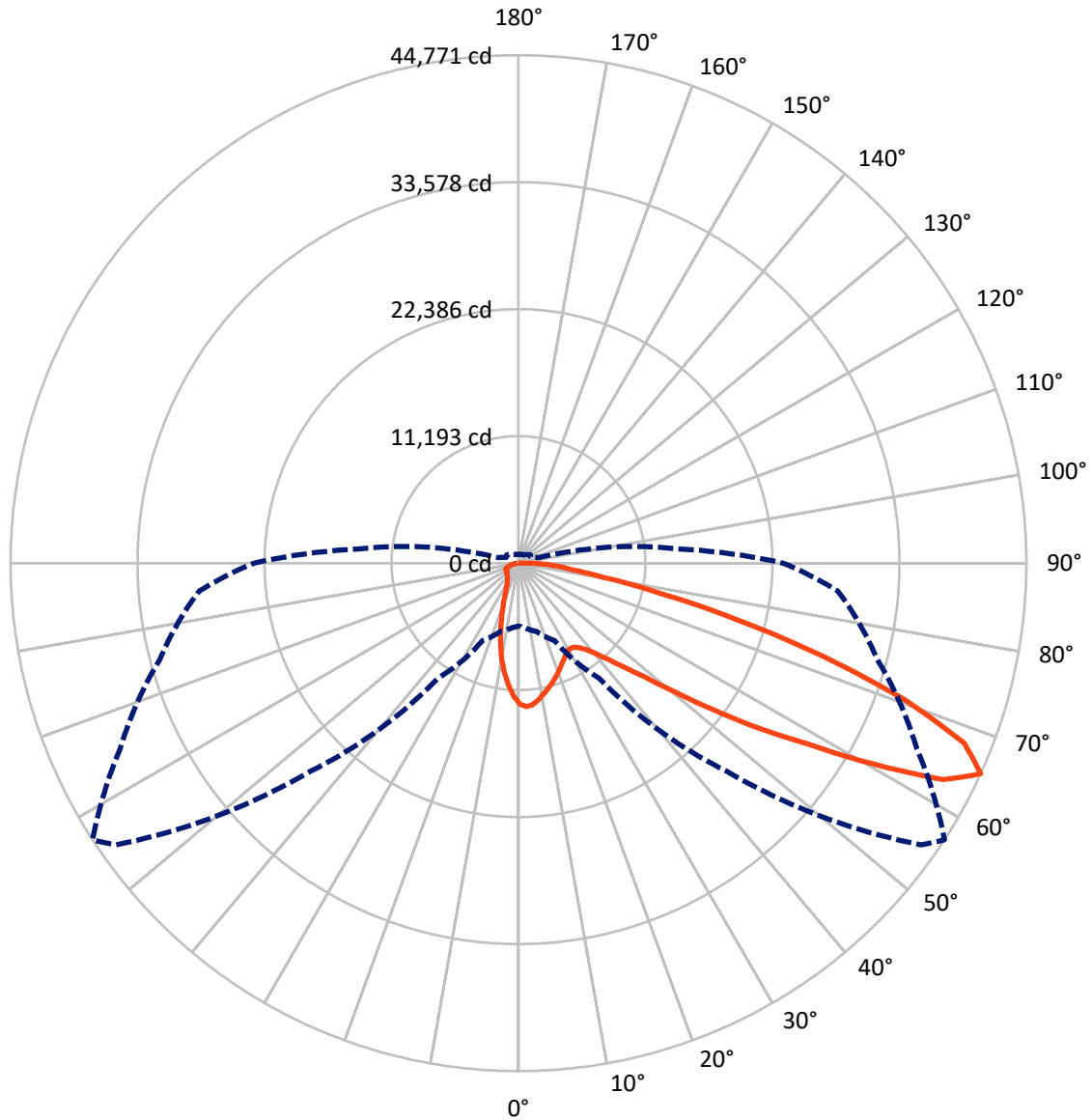
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6918.8	0.0	6918.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	38196.1	0.0	38196.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	45114.9	0.0	45114.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1038.9	2.3
10°-20°	2235.9	5.0
20°-30°	2890.8	6.4
30°-40°	3890.1	8.6
40°-50°	6202.9	13.7
50°-60°	10955.8	24.3
60°-70°	12052.9	26.7
70°-80°	5041.9	11.2
80°-90°	805.8	1.8
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°	45114.9	100.0
0°-180°	45114.9	100.0

**Coefficient of Utilization**



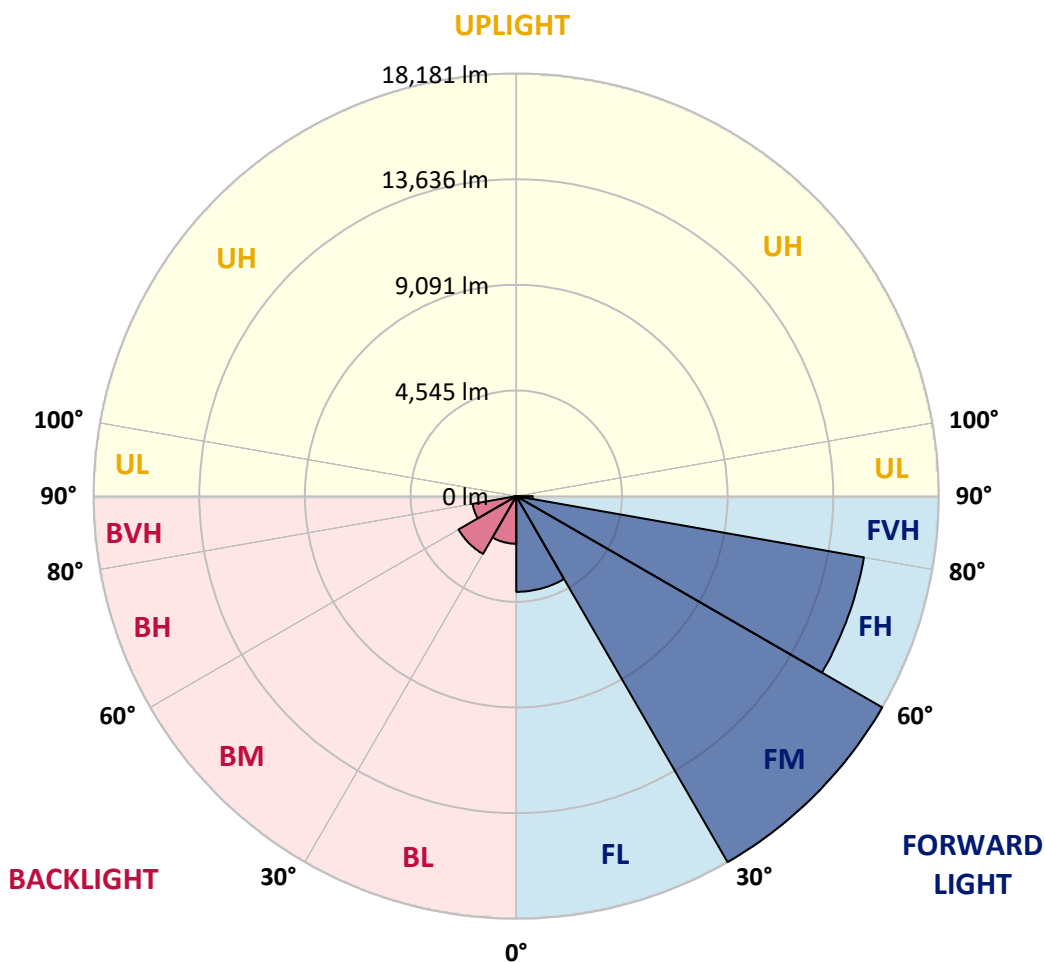
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4116.6	9.1			
FM (30°-60°)	18181.2	40.3			
FH (60°-80°)	15187.0	33.7			G5
FVH (80°-90°)	711.3	1.6			G4/750
BL (0°-30°)	2049.0	4.5	B3/2500		
BM (30°-60°)	2867.5	6.4	B3/5000		
BH (60°-80°)	1907.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	94.5	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0
2.5°	12741.0	12761.3	12761.3	12801.9	12664.8	12730.8	12720.7	12659.8	12680.1	12573.5	12466.9
5°	12380.6	12365.4	12446.6	12456.7	12563.3	12593.8	12619.2	12578.6	12588.7	12355.2	12253.7
7.5°	11456.7	11451.7	11588.7	11705.5	11928.8	12136.9	12274.0	12233.4	12289.2	12142.0	11903.4
10°	10360.3	10477.0	10619.2	10735.9	11147.1	11411.1	11766.4	11801.9	12015.1	11979.6	11548.1
12.5°	9538.0	9588.7	9695.3	10030.4	10406.0	10842.5	11350.1	11395.8	11603.9	11705.5	11329.8
15°	8862.9	8908.5	9045.6	9294.3	9715.6	10233.4	10878.1	10994.8	11411.1	11446.6	11045.6
17.5°	8370.5	8406.0	8497.4	8746.1	9091.3	9756.2	10365.4	10573.5	11121.7	11294.3	10751.2
20°	8177.6	8101.4	8152.2	8309.6	8654.7	9167.4	9954.2	10137.0	10837.5	11177.6	10472.0
22.5°	8091.3	8025.3	8055.8	8045.6	8319.7	8685.2	9512.6	9705.5	10568.4	11040.5	10223.2
25°	8157.3	8157.3	8126.8	8101.4	8131.9	8370.5	9035.4	9334.9	10208.0	10923.7	9969.4
27.5°	8512.6	8375.5	8390.8	8284.2	8253.7	8253.7	8822.2	8999.9	10091.3	10857.8	9761.3
30°	8741.0	8807.0	8812.1	8654.7	8497.4	8213.1	8624.3	8796.9	9994.8	10939.0	9639.5
32.5°	9324.8	9294.3	9208.0	9177.6	8944.1	8624.3	8720.7	8837.5	9939.0	11121.7	9675.0
35°	9908.5	9893.3	9898.4	9883.1	9639.5	9167.4	8979.6	9137.0	10040.5	11441.5	9796.9
37.5°	10512.6	10553.2	10725.8	10725.8	10466.9	9954.2	9705.5	9659.8	10411.1	11964.3	10086.2
40°	11116.6	11218.2	11436.4	11781.6	11416.1	10939.0	10538.0	10466.9	10857.8	12664.8	10781.6
42.5°	11695.3	11862.8	12294.3	12807.0	12685.1	12208.0	11675.0	11593.8	11776.5	13705.4	11751.1
45°	12436.4	12578.6	13258.7	14045.5	14213.1	13791.7	13167.4	13101.4	13091.2	15228.3	13086.2
47.5°	13563.3	13715.6	14395.8	15187.7	15705.4	15771.4	15070.9	14999.8	14756.2	17284.1	15040.5
50°	14974.5	15223.2	15796.8	16720.6	17471.9	18177.5	17979.5	17771.4	17294.2	19674.9	17517.6
52.5°	16004.9	16309.5	17086.1	18268.8	19593.7	20715.5	21426.2	21426.2	20329.7	22299.3	20497.3
55°	16279.0	16461.8	17441.4	19152.1	21421.1	24258.6	25745.9	25634.3	23943.9	25060.7	23964.2
57.5°	15187.7	15426.2	16614.0	18405.9	22380.5	27573.3	30035.2	30060.6	27893.1	28268.7	27385.5
60°	12182.6	12258.8	13659.8	16055.7	21456.6	30243.3	35893.0	35989.5	32385.5	31126.6	29126.6
62.5°	8421.2	8664.9	9720.7	11822.2	17776.5	29943.9	41542.7	42019.9	35984.4	32634.2	29400.7
65°	5543.1	5690.3	6253.7	7532.9	12375.5	25954.0	43299.0	44771.1	38735.6	32720.5	28253.5
67.5°	4020.3	4045.6	4213.2	4873.0	7436.5	18664.8	40299.1	42375.2	39766.1	31999.7	25563.2
70°	3248.7	3269.0	3329.9	3751.2	4802.0	11680.1	32867.7	36121.5	36674.8	28583.5	20588.6
72.5°	2639.6	2664.9	2741.1	3137.0	3959.4	6497.4	24035.3	27999.7	29832.2	21147.0	13685.1
75°	2076.1	2096.4	2279.2	2670.0	3720.8	4461.9	15944.0	19827.2	20075.9	12360.3	6406.0
77.5°	1421.3	1456.8	1680.2	2263.9	3502.5	3903.5	9939.0	12700.4	11395.8	4837.5	2203.0
80°	903.5	954.3	1086.3	1715.7	3096.4	3725.9	6182.7	7583.7	4989.8	1654.8	1060.9
82.5°	533.0	583.8	715.7	1111.7	2431.4	3456.8	4355.3	4746.1	2340.1	847.7	639.6
85°	294.4	329.9	431.5	670.0	1426.4	3071.0	3487.3	3406.1	1340.1	451.8	401.0
87.5°	96.4	111.7	157.4	269.0	588.8	1446.7	2091.3	1964.4	695.4	208.1	157.4
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°	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0	12406.0
2.5°	12395.8	12380.6	12152.2	11979.6	11685.2	11441.5	11345.1	11213.1	11208.0	11111.6	11086.2
5°	12096.3	11939.0	11588.7	11253.7	10730.9	10380.6	10060.8	9837.5	9746.1	9548.1	9502.4
7.5°	11710.5	11502.4	10964.4	10334.9	9720.7	9172.5	8675.0	8177.6	7898.4	7802.0	7695.4
10°	11309.5	10944.1	10147.1	9441.5	8583.7	7741.0	6959.3	6258.8	5878.1	5609.1	5492.3
12.5°	10989.7	10502.4	9487.2	8431.4	7299.4	6172.5	5263.9	4527.9	4096.4	3893.4	3802.0
15°	10629.3	9984.7	8766.4	7431.4	6020.2	4741.1	3852.8	3274.1	3101.5	3005.0	2989.8
17.5°	10248.6	9502.4	7984.7	6446.6	4771.5	3568.5	2994.9	2761.4	2685.3	2644.6	2624.3
20°	9893.3	9071.0	7182.7	5350.2	3736.0	2862.9	2593.9	2472.1	2467.0	2487.3	2482.2
22.5°	9390.8	8507.5	6390.8	4335.0	2984.7	2492.4	2319.8	2289.3	2319.8	2345.2	2355.3
25°	9106.5	8045.6	5507.6	3441.6	2467.0	2213.2	2157.3	2147.2	2192.9	2223.3	2218.3
27.5°	8812.1	7568.5	4685.2	2756.3	2162.4	2015.2	2005.1	2015.2	2060.9	2106.6	2101.5
30°	8583.7	7187.7	3913.7	2304.5	1928.9	1873.1	1862.9	1873.1	1898.5	1903.5	1903.5
32.5°	8395.9	6736.0	3258.8	2000.0	1786.8	1741.1	1751.3	1746.2	1751.3	1756.3	1761.4
35°	8284.2	6466.9	2720.8	1812.2	1670.0	1634.5	1629.4	1614.2	1619.3	1624.3	1619.3
37.5°	8522.8	6335.0	2294.4	1680.2	1588.8	1558.4	1548.2	1538.1	1522.8	1522.8	1522.8
40°	8883.2	6263.9	2035.5	1593.9	1527.9	1492.4	1461.9	1451.8	1451.8	1456.8	1461.9
42.5°	9598.9	6380.6	1857.8	1527.9	1451.8	1411.2	1380.7	1385.8	1401.0	1416.2	1406.1
45°	10634.4	6736.0	1776.6	1477.1	1406.1	1350.2	1329.9	1324.9	1340.1	1365.5	1385.8
47.5°	11989.7	7289.3	1746.2	1431.5	1375.6	1299.5	1274.1	1289.3	1309.6	1345.2	1329.9
50°	14208.0	8532.9	1771.6	1390.8	1329.9	1274.1	1243.6	1228.4	1243.6	1269.0	1279.2
52.5°	17106.4	10791.8	1868.0	1370.5	1299.5	1253.8	1203.0	1177.7	1192.9	1213.2	1213.2
55°	20573.4	13878.0	2137.0	1345.2	1248.7	1223.3	1167.5	1116.7	1126.9	1126.9	1121.8
57.5°	23629.2	16208.0	2456.8	1309.6	1218.3	1182.7	1111.7	1050.8	1040.6	1045.7	1050.8
60°	24999.7	16827.2	2609.1	1299.5	1218.3	1132.0	1035.5	974.6	959.4	949.2	949.2
62.5°	24761.2	15756.2	2299.5	1253.8	1248.7	1091.4	964.5	898.5	878.2	857.9	862.9
65°	23319.6	14228.3	1812.2	1192.9	1253.8	1066.0	893.4	827.4	791.9	766.5	761.4
67.5°	20685.1	12147.1	1436.5	1147.2	1203.0	1020.3	832.5	756.3	725.9	700.5	690.3
70°	16182.6	9522.7	1248.7	1086.3	1081.2	908.6	761.4	695.4	649.7	619.3	619.3
72.5°	10492.3	6020.2	1071.1	964.5	934.0	761.4	659.9	619.3	583.8	558.4	558.4
75°	4751.2	2796.9	862.9	807.1	761.4	609.1	558.4	538.1	507.6	482.2	482.2
77.5°	1705.6	1192.9	644.7	634.5	568.5	472.1	451.8	436.5	416.2	390.9	390.9
80°	954.3	756.3	482.2	461.9	395.9	350.3	324.9	324.9	314.7	299.5	294.4
82.5°	604.1	492.4	355.3	309.6	258.9	233.5	223.3	218.3	213.2	192.9	187.8
85°	380.7	335.0	233.5	182.7	152.3	116.8	111.7	106.6	96.4	86.3	86.3
87.5°	172.6	192.9	91.4	55.8	40.6	25.4	15.2	5.1	0.0	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)