

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: P480396

Luminaire Tested: **IFLD-S-SA6C-727-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480396  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

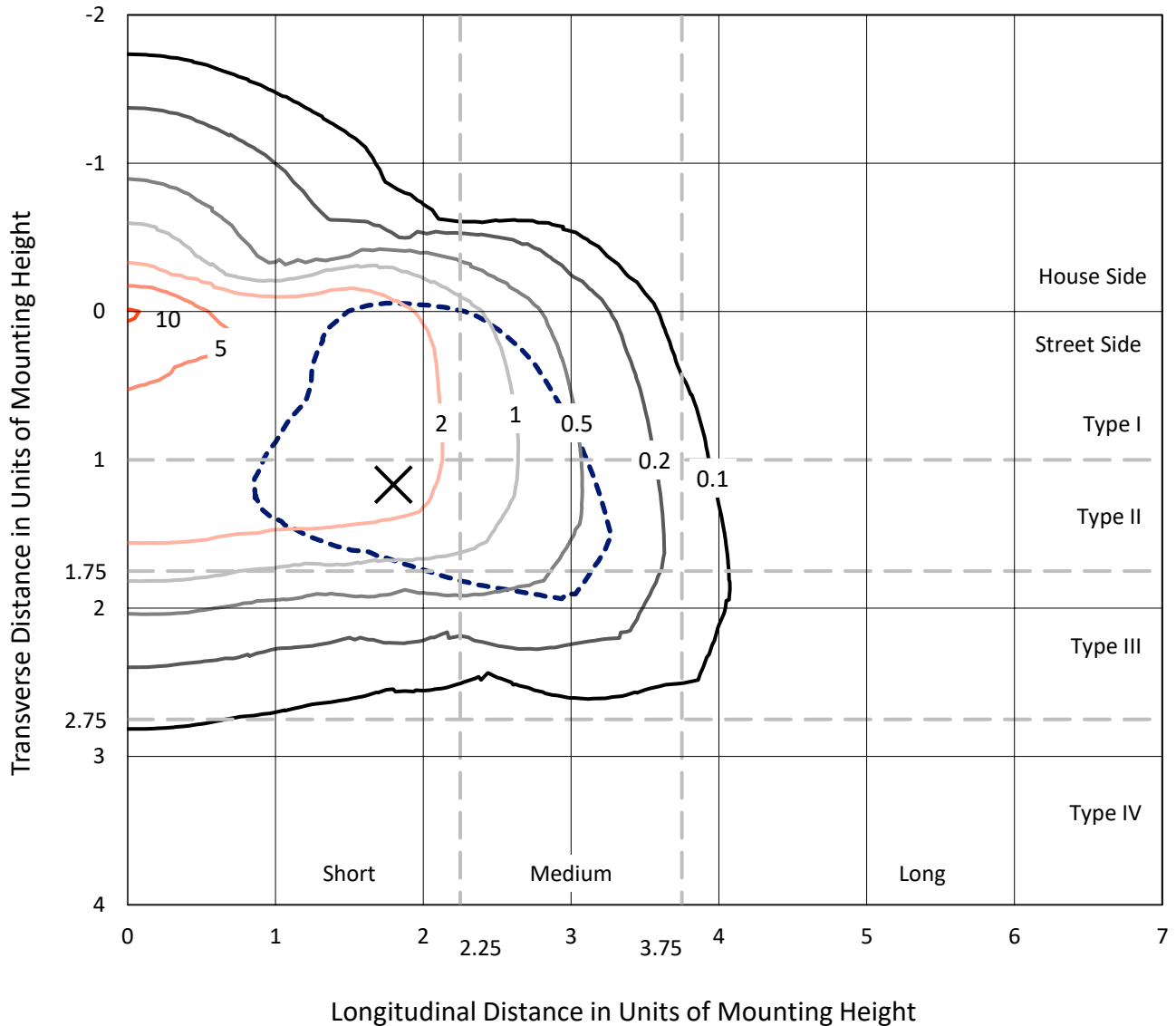
Lumens per Lamp: N/A  
Luminaire Lumens: 34288.5 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5  
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

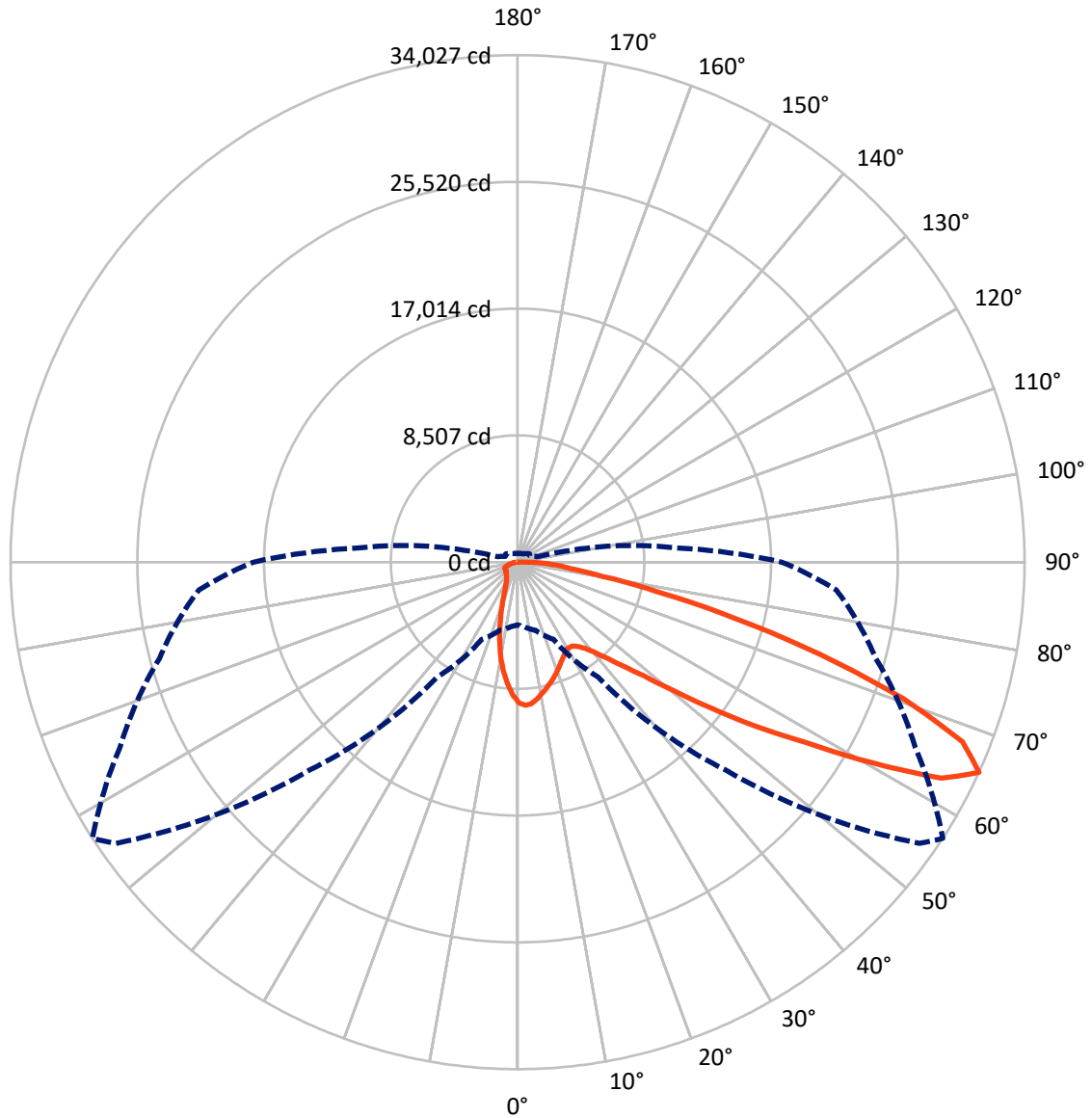
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 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	5258.5	0.0	5258.5
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	29030.0	0.0	29030.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	34288.5	0.0	34288.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	789.6	2.3
10°-20°	1699.3	5.0
20°-30°	2197.1	6.4
30°-40°	2956.6	8.6
40°-50°	4714.4	13.7
50°-60°	8326.7	24.3
60°-70°	9160.5	26.7
70°-80°	3832.0	11.2
80°-90°	612.4	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°	34288.5	100.0
0°-180°	34288.5	100.0

**Coefficient of Utilization**



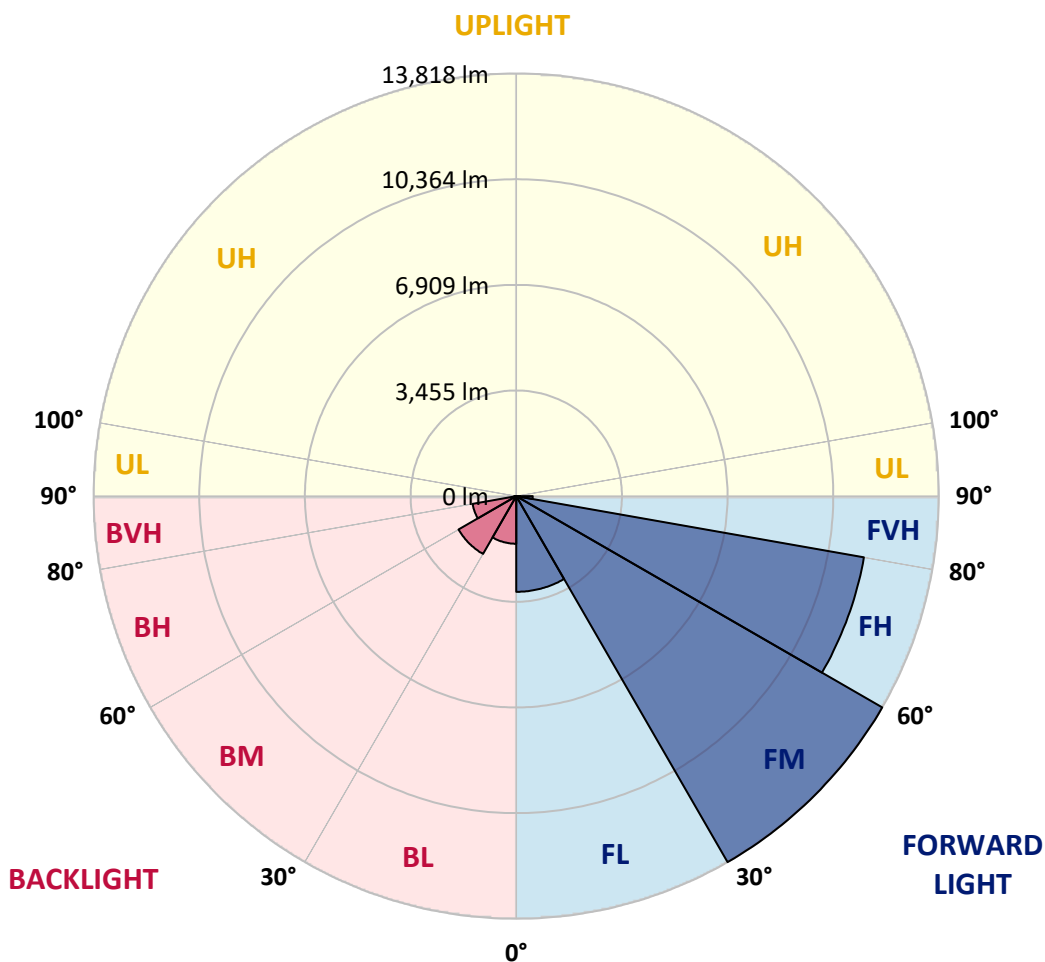
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3128.7	9.1			
FM (30°-60°)	13818.2	40.3			
FH (60°-80°)	11542.5	33.7			G4/12000
FVH (80°-90°)	540.6	1.6			G4/750
BL (0°-30°)	1557.3	4.5	B3/2500		
BM (30°-60°)	2179.4	6.4	B2/2500		
BH (60°-80°)	1449.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	71.8	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9
2.5°	9683.5	9698.9	9698.9	9729.8	9625.6	9675.8	9668.0	9621.8	9637.2	9556.2	9475.2
5°	9409.6	9398.0	9459.7	9467.4	9548.5	9571.6	9590.9	9560.0	9567.7	9390.3	9313.1
7.5°	8707.4	8703.6	8807.7	8896.5	9066.2	9224.4	9328.5	9297.7	9340.1	9228.2	9046.9
10°	7874.1	7962.8	8070.9	8159.6	8472.1	8672.7	8942.8	8969.8	9131.8	9104.8	8776.9
12.5°	7249.1	7287.7	7368.7	7623.3	7908.8	8240.6	8626.4	8661.1	8819.3	8896.5	8611.0
15°	6736.0	6770.7	6874.9	7063.9	7384.1	7777.6	8267.6	8356.3	8672.7	8699.7	8394.9
17.5°	6361.8	6388.8	6458.2	6647.3	6909.6	7415.0	7878.0	8036.1	8452.8	8584.0	8171.2
20°	6215.2	6157.3	6195.9	6315.5	6577.8	6967.5	7565.5	7704.3	8236.7	8495.2	7959.0
22.5°	6149.6	6099.4	6122.6	6114.9	6323.2	6601.0	7229.8	7376.4	8032.3	8391.1	7769.9
25°	6199.7	6199.7	6176.6	6157.3	6180.5	6361.8	6867.2	7094.8	7758.4	8302.3	7577.0
27.5°	6469.8	6365.6	6377.2	6296.2	6273.0	6273.0	6705.1	6840.2	7669.6	8252.2	7418.9
30°	6643.4	6693.6	6697.4	6577.8	6458.2	6242.2	6554.7	6685.8	7596.3	8313.9	7326.3
32.5°	7087.1	7063.9	6998.3	6975.2	6797.7	6554.7	6628.0	6716.7	7553.9	8452.8	7353.3
35°	7530.7	7519.2	7523.0	7511.4	7326.3	6967.5	6824.7	6944.3	7631.0	8695.8	7445.9
37.5°	7989.8	8020.7	8151.9	8151.9	7955.1	7565.5	7376.4	7341.7	7912.7	9093.2	7665.8
40°	8448.9	8526.1	8692.0	8954.3	8676.6	8313.9	8009.1	7955.1	8252.2	9625.6	8194.3
42.5°	8888.7	9016.1	9344.0	9733.6	9641.0	9278.4	8873.3	8811.6	8950.5	10416.5	8931.2
45°	9452.0	9560.0	10077.0	10675.0	10802.3	10482.1	10007.5	9957.4	9949.7	11573.9	9945.8
47.5°	10308.5	10424.2	10941.2	11543.0	11936.5	11986.7	11454.3	11400.3	11215.1	13136.4	11431.1
50°	11381.0	11570.0	12006.0	12708.1	13279.1	13815.4	13664.9	13506.7	13144.1	14953.5	13313.8
52.5°	12164.1	12395.6	12985.9	13884.8	14891.7	15744.3	16284.5	16284.5	15451.1	16948.0	15578.4
55°	12372.5	12511.4	13256.0	14556.1	16280.6	18437.2	19567.6	19482.7	18198.0	19046.8	18213.4
57.5°	11543.0	11724.3	12627.1	13989.0	17009.7	20956.4	22827.6	22846.8	21199.5	21485.0	20813.7
60°	9259.1	9317.0	10381.8	12202.7	16307.6	22985.7	27279.6	27352.9	24613.8	23657.0	22137.0
62.5°	6400.4	6585.5	7388.0	8985.2	13510.6	22758.1	31573.5	31936.2	27349.1	24802.8	22345.3
65°	4212.9	4324.8	4753.0	5725.2	9405.7	19725.8	32908.4	34027.2	29440.1	24868.4	21473.4
67.5°	3055.5	3074.8	3202.1	3703.6	5651.9	14185.7	30628.3	32206.3	30223.3	24320.6	19428.7
70°	2469.1	2484.5	2530.8	2851.0	3649.6	8877.2	24980.3	27453.2	27873.8	21724.2	15647.9
72.5°	2006.1	2025.4	2083.3	2384.2	3009.2	4938.2	18267.4	21280.5	22673.2	16072.3	10401.1
75°	1577.9	1593.3	1732.2	2029.3	2827.9	3391.1	12117.9	15069.2	15258.2	9394.1	4868.7
77.5°	1080.2	1107.2	1277.0	1720.7	2662.0	2966.8	7553.9	9652.6	8661.1	3676.6	1674.4
80°	686.7	725.3	825.6	1304.0	2353.4	2831.7	4699.0	5763.8	3792.4	1257.7	806.3
82.5°	405.1	443.7	544.0	844.9	1848.0	2627.3	3310.1	3607.2	1778.5	644.3	486.1
85°	223.8	250.8	327.9	509.3	1084.1	2334.1	2650.4	2588.7	1018.5	343.4	304.8
87.5°	73.3	84.9	119.6	204.5	447.5	1099.5	1589.5	1493.0	528.5	158.2	119.6
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°	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9	9428.9
2.5°	9421.1	9409.6	9236.0	9104.8	8881.0	8695.8	8622.5	8522.2	8518.4	8445.1	8425.8
5°	9193.5	9073.9	8807.7	8553.1	8155.7	7889.5	7646.5	7476.7	7407.3	7256.8	7222.1
7.5°	8900.3	8742.1	8333.2	7854.8	7388.0	6971.3	6593.3	6215.2	6003.0	5929.7	5848.7
10°	8595.5	8317.8	7712.1	7175.8	6523.8	5883.4	5289.3	4756.9	4467.5	4263.0	4174.3
12.5°	8352.5	7982.1	7210.5	6408.1	5547.7	4691.3	4000.7	3441.3	3113.4	2959.1	2889.6
15°	8078.6	7588.6	6662.7	5648.1	4575.5	3603.3	2928.2	2488.4	2357.2	2283.9	2272.3
17.5°	7789.2	7222.1	6068.6	4899.6	3626.5	2712.1	2276.2	2098.7	2040.9	2010.0	1994.6
20°	7519.2	6894.2	5459.0	4066.3	2839.5	2175.9	1971.4	1878.8	1875.0	1890.4	1886.5
22.5°	7137.2	6465.9	4857.2	3294.7	2268.5	1894.3	1763.1	1739.9	1763.1	1782.4	1790.1
25°	6921.2	6114.9	4185.9	2615.7	1875.0	1682.1	1639.6	1631.9	1666.6	1689.8	1685.9
27.5°	6697.4	5752.2	3560.9	2094.9	1643.5	1531.6	1523.9	1531.6	1566.3	1601.1	1597.2
30°	6523.8	5462.9	2974.5	1751.5	1466.0	1423.6	1415.9	1423.6	1442.9	1446.7	1446.7
32.5°	6381.1	5119.5	2476.8	1520.0	1358.0	1323.3	1331.0	1327.1	1331.0	1334.9	1338.7
35°	6296.2	4915.0	2067.9	1377.3	1269.3	1242.3	1238.4	1226.8	1230.7	1234.5	1230.7
37.5°	6477.5	4814.7	1743.8	1277.0	1207.5	1184.4	1176.7	1169.0	1157.4	1157.4	1157.4
40°	6751.4	4760.7	1547.0	1211.4	1161.2	1134.2	1111.1	1103.4	1103.4	1107.2	1111.1
42.5°	7295.4	4849.5	1412.0	1161.2	1103.4	1072.5	1049.4	1053.2	1064.8	1076.4	1068.7
45°	8082.4	5119.5	1350.3	1122.7	1068.7	1026.2	1010.8	1006.9	1018.5	1037.8	1053.2
47.5°	9112.5	5540.0	1327.1	1087.9	1045.5	987.6	968.3	979.9	995.4	1022.4	1010.8
50°	10798.4	6485.2	1346.4	1057.1	1010.8	968.3	945.2	933.6	945.2	964.5	972.2
52.5°	13001.3	8202.0	1419.7	1041.6	987.6	952.9	914.3	895.0	906.6	922.1	922.1
55°	15636.3	10547.7	1624.2	1022.4	949.1	929.8	887.3	848.8	856.5	856.5	852.6
57.5°	17958.8	12318.5	1867.3	995.4	925.9	898.9	844.9	798.6	790.9	794.7	798.6
60°	19000.5	12789.1	1983.0	987.6	925.9	860.3	787.0	740.7	729.2	721.4	721.4
62.5°	18819.1	11975.1	1747.7	952.9	949.1	829.5	733.0	682.9	667.4	652.0	655.9
65°	17723.5	10813.9	1377.3	906.6	952.9	810.2	679.0	628.8	601.8	582.6	578.7
67.5°	15721.2	9232.1	1091.8	871.9	914.3	775.5	632.7	574.8	551.7	532.4	524.7
70°	12299.2	7237.5	949.1	825.6	821.7	690.6	578.7	528.5	493.8	470.7	470.7
72.5°	7974.4	4575.5	814.0	733.0	709.9	578.7	501.5	470.7	443.7	424.4	424.4
75°	3611.1	2125.7	655.9	613.4	578.7	463.0	424.4	408.9	385.8	366.5	366.5
77.5°	1296.3	906.6	490.0	482.2	432.1	358.8	343.4	331.8	316.4	297.1	297.1
80°	725.3	574.8	366.5	351.1	300.9	266.2	246.9	246.9	239.2	227.6	223.8
82.5°	459.1	374.2	270.1	235.3	196.8	177.5	169.8	165.9	162.0	146.6	142.7
85°	289.3	254.6	177.5	138.9	115.7	88.7	84.9	81.0	73.3	65.6	65.6
87.5°	131.2	146.6	69.4	42.4	30.9	19.3	11.6	3.9	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)