

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: P480407

Luminaire Tested: **IFLD-L-SA7D-727-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480407  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

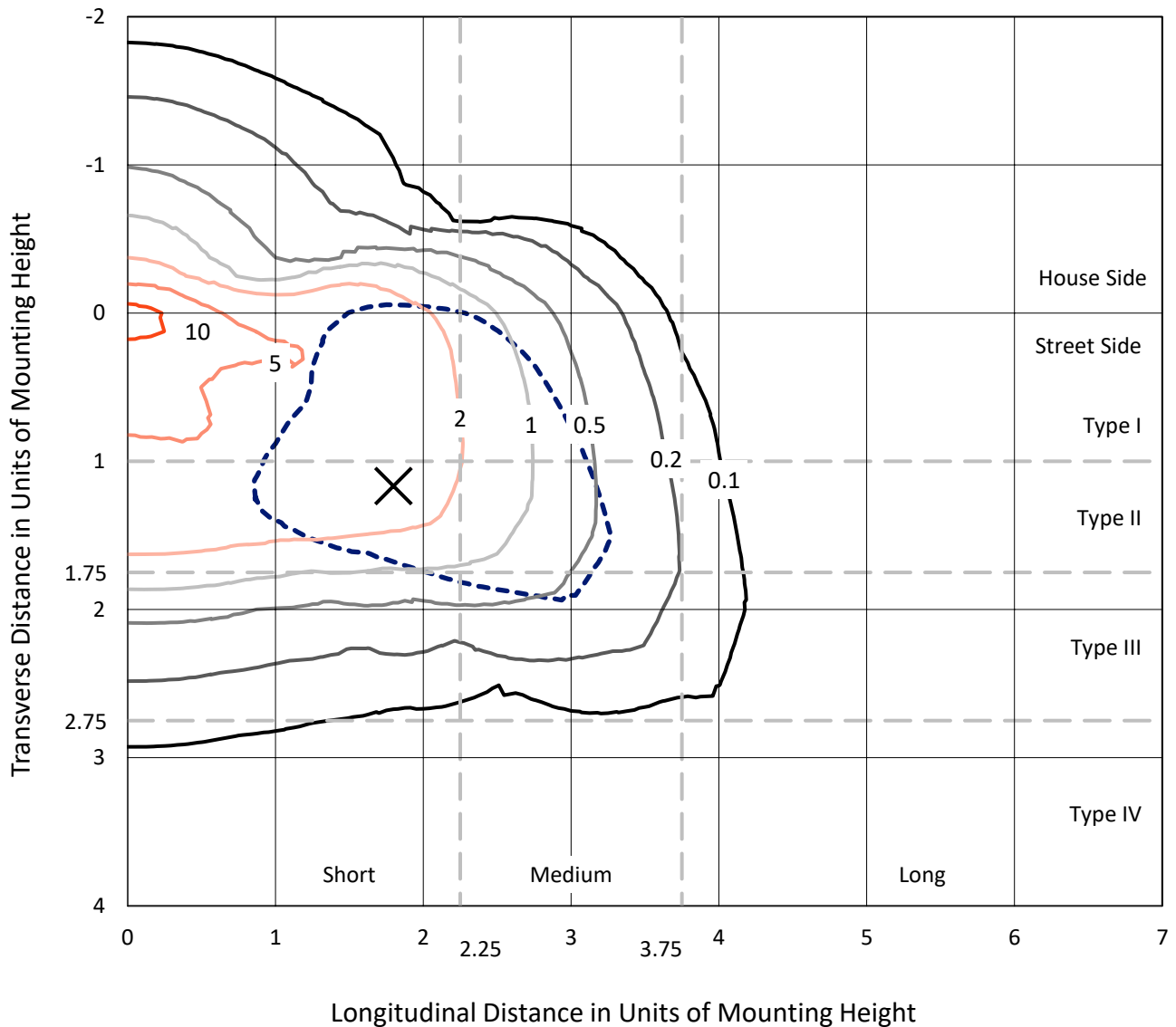
Lumens per Lamp: N/A  
Luminaire Lumens: 40252.4 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

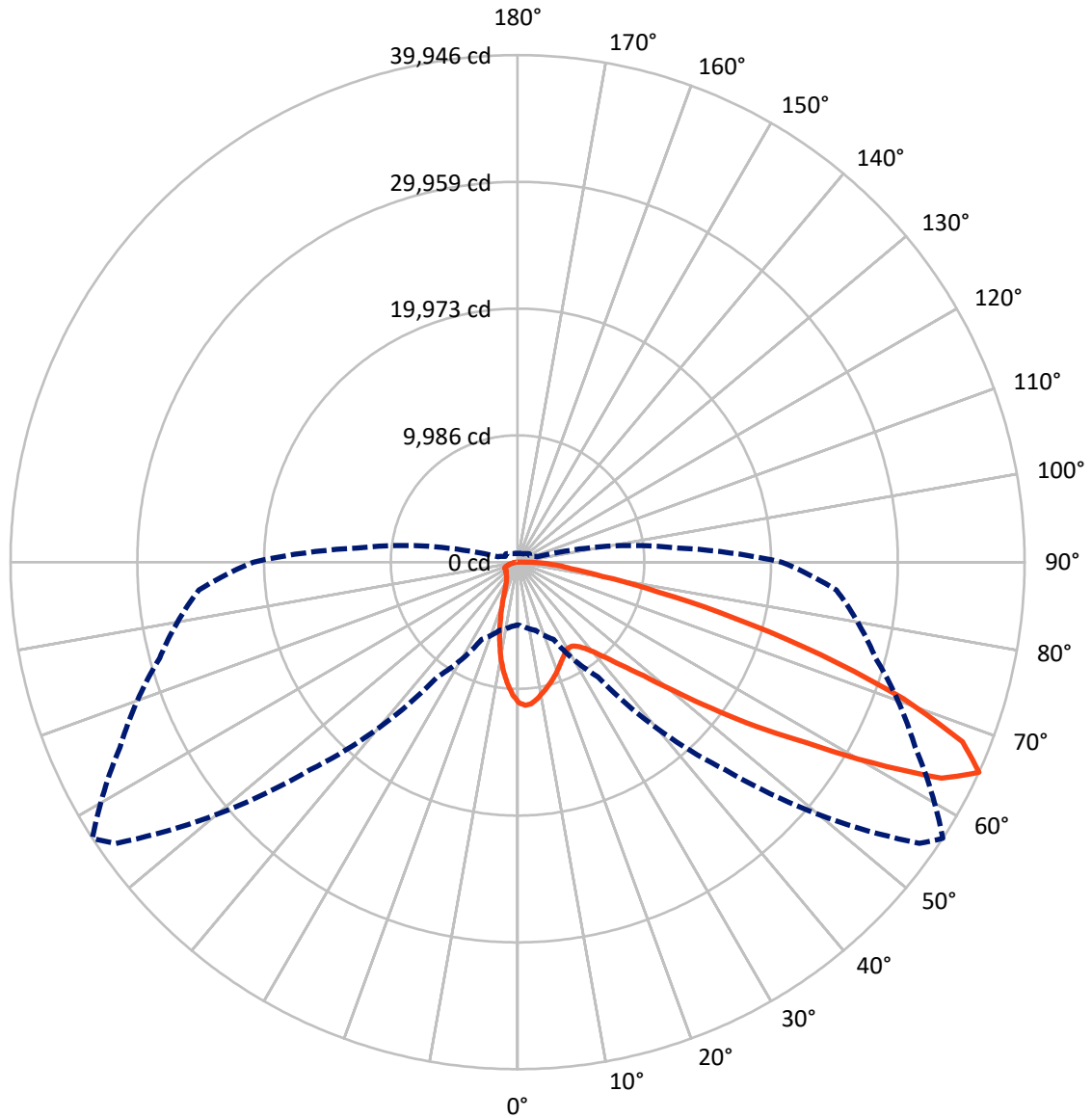
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 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	6173.1	0.0	6173.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	34079.3	0.0	34079.3
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	40252.4	0.0	40252.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	926.9	2.3
10°-20°	1994.9	5.0
20°-30°	2579.2	6.4
30°-40°	3470.8	8.6
40°-50°	5534.3	13.7
50°-60°	9775.0	24.3
60°-70°	10753.8	26.7
70°-80°	4498.5	11.2
80°-90°	718.9	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°	40252.4	100.0
0°-180°	40252.4	100.0

**Coefficient of Utilization**



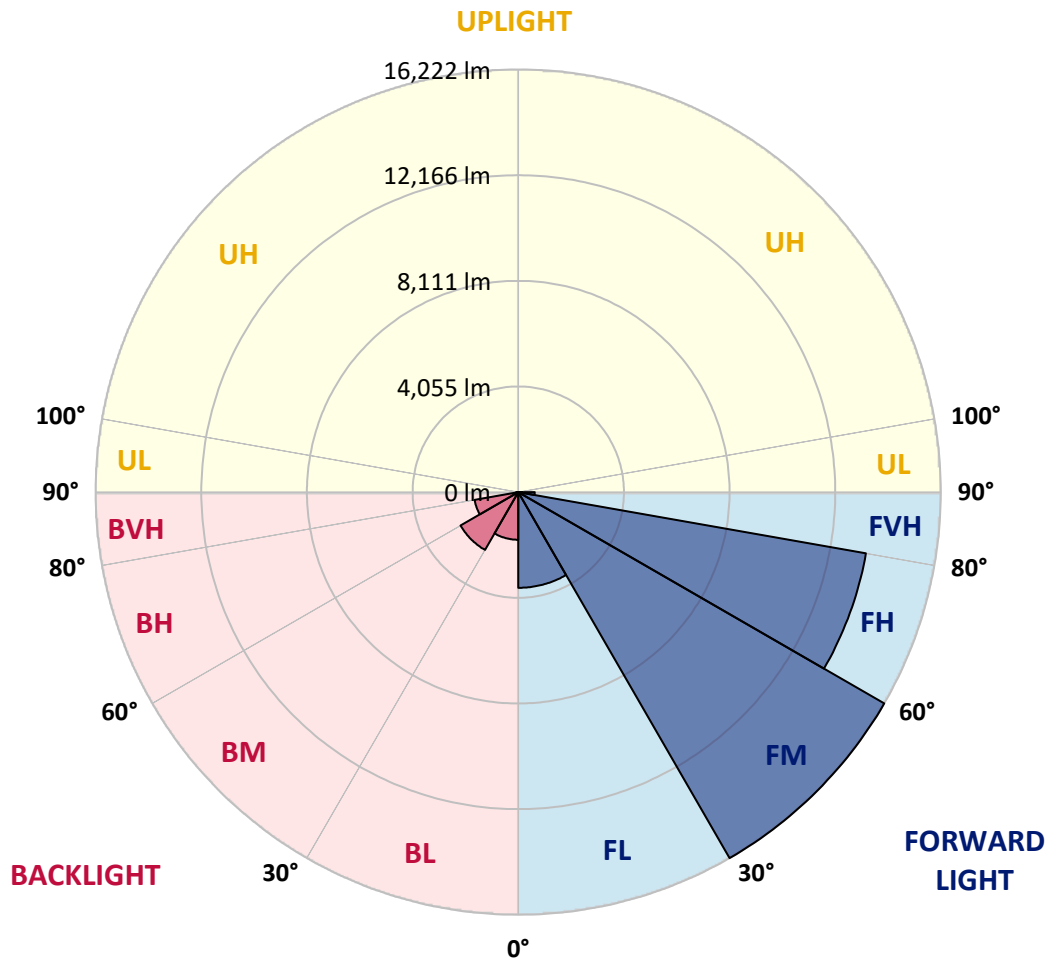
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3672.9	9.1			
FM (30°-60°)	16221.7	40.3			
FH (60°-80°)	13550.2	33.7			G5
FVH (80°-90°)	634.6	1.6			G4/750
BL (0°-30°)	1828.2	4.5	B3/2500		
BM (30°-60°)	2558.5	6.4	B3/5000		
BH (60°-80°)	1702.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	84.3	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°	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8
2.5°	11367.8	11385.9	11385.9	11422.1	11299.8	11358.7	11349.6	11295.3	11313.4	11218.3	11123.2
5°	11046.2	11032.6	11105.1	11114.1	11209.2	11236.4	11259.1	11222.8	11231.9	11023.6	10933.0
7.5°	10221.9	10217.4	10339.7	10443.8	10643.1	10828.8	10951.1	10914.9	10964.7	10833.3	10620.5
10°	9243.7	9347.8	9474.6	9578.8	9945.7	10181.2	10498.2	10529.9	10720.1	10688.4	10303.4
12.5°	8510.0	8555.3	8650.4	8949.3	9284.4	9673.9	10126.8	10167.6	10353.3	10443.8	10108.7
15°	7907.6	7948.4	8070.7	8292.6	8668.5	9130.4	9705.6	9809.8	10181.2	10212.9	9855.1
17.5°	7468.3	7500.0	7581.5	7803.4	8111.4	8704.7	9248.2	9433.9	9923.0	10077.0	9592.4
20°	7296.2	7228.3	7273.6	7414.0	7721.9	8179.4	8881.3	9044.4	9669.4	9972.8	9343.3
22.5°	7219.2	7160.3	7187.5	7178.4	7423.0	7749.1	8487.3	8659.4	9429.4	9850.6	9121.4
25°	7278.1	7278.1	7250.9	7228.3	7255.4	7468.3	8061.6	8328.8	9107.8	9746.4	8894.9
27.5°	7595.1	7472.8	7486.4	7391.3	7364.1	7364.1	7871.4	8029.9	9003.6	9687.5	8709.2
30°	7798.9	7857.8	7862.3	7721.9	7581.5	7327.9	7694.8	7848.7	8917.6	9760.0	8600.5
32.5°	8319.8	8292.6	8215.6	8188.4	7980.1	7694.8	7780.8	7885.0	8867.8	9923.0	8632.3
35°	8840.6	8827.0	8831.5	8817.9	8600.5	8179.4	8011.8	8152.2	8958.3	10208.3	8740.9
37.5°	9379.5	9415.8	9569.8	9569.8	9338.8	8881.3	8659.4	8618.7	9289.0	10674.8	8999.1
40°	9918.5	10009.1	10203.8	10511.8	10185.7	9760.0	9402.2	9338.8	9687.5	11299.8	9619.6
42.5°	10434.8	10584.2	10969.2	11426.6	11317.9	10892.2	10416.7	10344.2	10507.3	12228.3	10484.6
45°	11096.0	11222.8	11829.7	12531.7	12681.2	12305.3	11748.2	11689.3	11680.3	13587.0	11675.7
47.5°	12101.5	12237.3	12844.2	13550.7	14012.7	14071.6	13446.6	13383.2	13165.8	15421.2	13419.4
50°	13360.5	13582.4	14094.2	14918.5	15588.8	16218.3	16041.7	15856.0	15430.3	17554.4	15629.5
52.5°	14279.9	14551.6	15244.6	16299.8	17481.9	18482.8	19116.9	19116.9	18138.6	19895.8	18288.1
55°	14524.5	14687.5	15561.6	17087.9	19112.3	21644.0	22971.0	22871.4	21363.2	22359.6	21381.4
57.5°	13550.7	13763.6	14823.4	16422.1	19968.3	24601.5	26798.0	26820.7	24886.8	25221.9	24433.9
60°	10869.6	10937.5	12187.5	14325.2	19144.0	26983.7	32024.5	32110.5	28894.9	27771.8	25987.3
62.5°	7513.6	7731.0	8673.0	10548.0	15860.5	26716.5	37065.2	37491.0	32106.0	29116.9	26231.9
65°	4945.7	5077.0	5579.7	6721.0	11041.7	23156.7	38632.3	39945.7	34560.7	29193.9	25208.4
67.5°	3587.0	3609.6	3759.1	4347.8	6635.0	16653.1	35955.6	37808.0	35480.1	28550.7	22808.0
70°	2898.6	2916.7	2971.0	3346.9	4284.4	10421.2	29325.2	32228.3	32721.9	25502.7	18369.6
72.5°	2355.1	2377.7	2445.7	2798.9	3532.6	5797.1	21444.8	24981.9	26616.9	18867.8	12210.2
75°	1852.4	1870.5	2033.5	2382.2	3319.7	3981.0	14225.6	17690.2	17912.2	11028.1	5715.6
77.5°	1268.1	1299.8	1499.1	2019.9	3125.0	3482.8	8867.8	11331.5	10167.6	4316.1	1965.6
80°	806.2	851.4	969.2	1530.8	2762.7	3324.3	5516.3	6766.3	4452.0	1476.5	946.6
82.5°	475.5	520.8	638.6	991.8	2169.4	3084.2	3885.9	4234.6	2087.9	756.3	570.7
85°	262.7	294.4	385.0	597.8	1272.6	2740.0	3111.4	3039.0	1195.7	403.1	357.8
87.5°	86.1	99.6	140.4	240.0	525.4	1290.8	1865.9	1752.7	620.5	185.7	140.4
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°	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8	11068.8
2.5°	11059.8	11046.2	10842.4	10688.4	10425.7	10208.3	10122.3	10004.5	10000.0	9914.0	9891.3
5°	10792.6	10652.2	10339.7	10040.8	9574.3	9261.8	8976.5	8777.2	8695.7	8519.0	8478.3
7.5°	10448.4	10262.7	9782.6	9221.0	8673.0	8183.9	7740.0	7296.2	7047.1	6961.1	6865.9
10°	10090.6	9764.5	9053.4	8423.9	7658.5	6906.7	6209.2	5584.2	5244.6	5004.5	4900.4
12.5°	9805.3	9370.5	8464.7	7522.7	6512.7	5507.3	4696.6	4039.9	3654.9	3473.7	3392.2
15°	9483.7	8908.5	7821.6	6630.4	5371.4	4230.1	3437.5	2921.2	2767.2	2681.2	2667.6
17.5°	9144.0	8478.3	7124.1	5751.8	4257.2	3183.9	2672.1	2463.8	2395.8	2359.6	2341.5
20°	8827.0	8093.3	6408.5	4773.6	3333.3	2554.3	2314.3	2205.6	2201.1	2219.2	2214.7
22.5°	8378.6	7590.6	5702.0	3867.8	2663.0	2223.7	2069.7	2042.6	2069.7	2092.4	2101.5
25°	8125.0	7178.4	4914.0	3070.7	2201.1	1974.6	1924.8	1915.8	1956.5	1983.7	1979.2
27.5°	7862.3	6752.7	4180.3	2459.2	1929.3	1798.0	1789.0	1798.0	1838.8	1879.5	1875.0
30°	7658.5	6413.0	3491.9	2056.2	1721.0	1671.2	1662.1	1671.2	1693.8	1698.4	1698.4
32.5°	7490.9	6010.0	2907.6	1784.4	1594.2	1553.4	1562.5	1558.0	1562.5	1567.0	1571.6
35°	7391.3	5769.9	2427.5	1616.8	1490.0	1458.3	1453.8	1440.2	1444.7	1449.3	1444.7
37.5°	7604.2	5652.2	2047.1	1499.1	1417.6	1390.4	1381.3	1372.3	1358.7	1358.7	1358.7
40°	7925.7	5588.8	1816.1	1422.1	1363.2	1331.5	1304.3	1295.3	1295.3	1299.8	1304.3
42.5°	8564.3	5692.9	1657.6	1363.2	1295.3	1259.1	1231.9	1236.4	1250.0	1263.6	1254.5
45°	9488.2	6010.0	1585.1	1317.9	1254.5	1204.7	1186.6	1182.1	1195.7	1218.3	1236.4
47.5°	10697.5	6503.6	1558.0	1277.2	1227.4	1159.4	1136.8	1150.4	1168.5	1200.2	1186.6
50°	12676.6	7613.2	1580.6	1240.9	1186.6	1136.8	1109.6	1096.0	1109.6	1132.2	1141.3
52.5°	15262.7	9628.6	1666.7	1222.8	1159.4	1118.7	1073.4	1050.7	1064.3	1082.4	1082.4
55°	18356.0	12382.3	1906.7	1200.2	1114.1	1091.5	1041.7	996.4	1005.4	1005.4	1000.9
57.5°	21082.4	14461.1	2192.0	1168.5	1087.0	1055.3	991.8	937.5	928.4	933.0	937.5
60°	22305.3	15013.6	2327.9	1159.4	1087.0	1010.0	923.9	869.6	856.0	846.9	846.9
62.5°	22092.4	14058.0	2051.6	1118.7	1114.1	973.7	860.5	801.6	783.5	765.4	769.9
65°	20806.2	12694.8	1616.8	1064.3	1118.7	951.1	797.1	738.2	706.5	683.9	679.3
67.5°	18455.6	10837.9	1281.7	1023.6	1073.4	910.3	742.8	674.8	647.6	625.0	615.9
70°	14438.4	8496.4	1114.1	969.2	964.7	810.7	679.3	620.5	579.7	552.5	552.5
72.5°	9361.4	5371.4	955.6	860.5	833.3	679.3	588.8	552.5	520.8	498.2	498.2
75°	4239.1	2495.5	769.9	720.1	679.3	543.5	498.2	480.1	452.9	430.3	430.3
77.5°	1521.7	1064.3	575.2	566.1	507.2	421.2	403.1	389.5	371.4	348.7	348.7
80°	851.4	674.8	430.3	412.1	353.3	312.5	289.9	289.9	280.8	267.2	262.7
82.5°	538.9	439.3	317.0	276.3	231.0	208.3	199.3	194.7	190.2	172.1	167.6
85°	339.7	298.9	208.3	163.0	135.9	104.2	99.6	95.1	86.1	77.0	77.0
87.5°	154.0	172.1	81.5	49.8	36.2	22.6	13.6	4.5	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)