

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: P480443

Luminaire Tested: **IFLD-L-SA7A-730-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480443  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-730-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

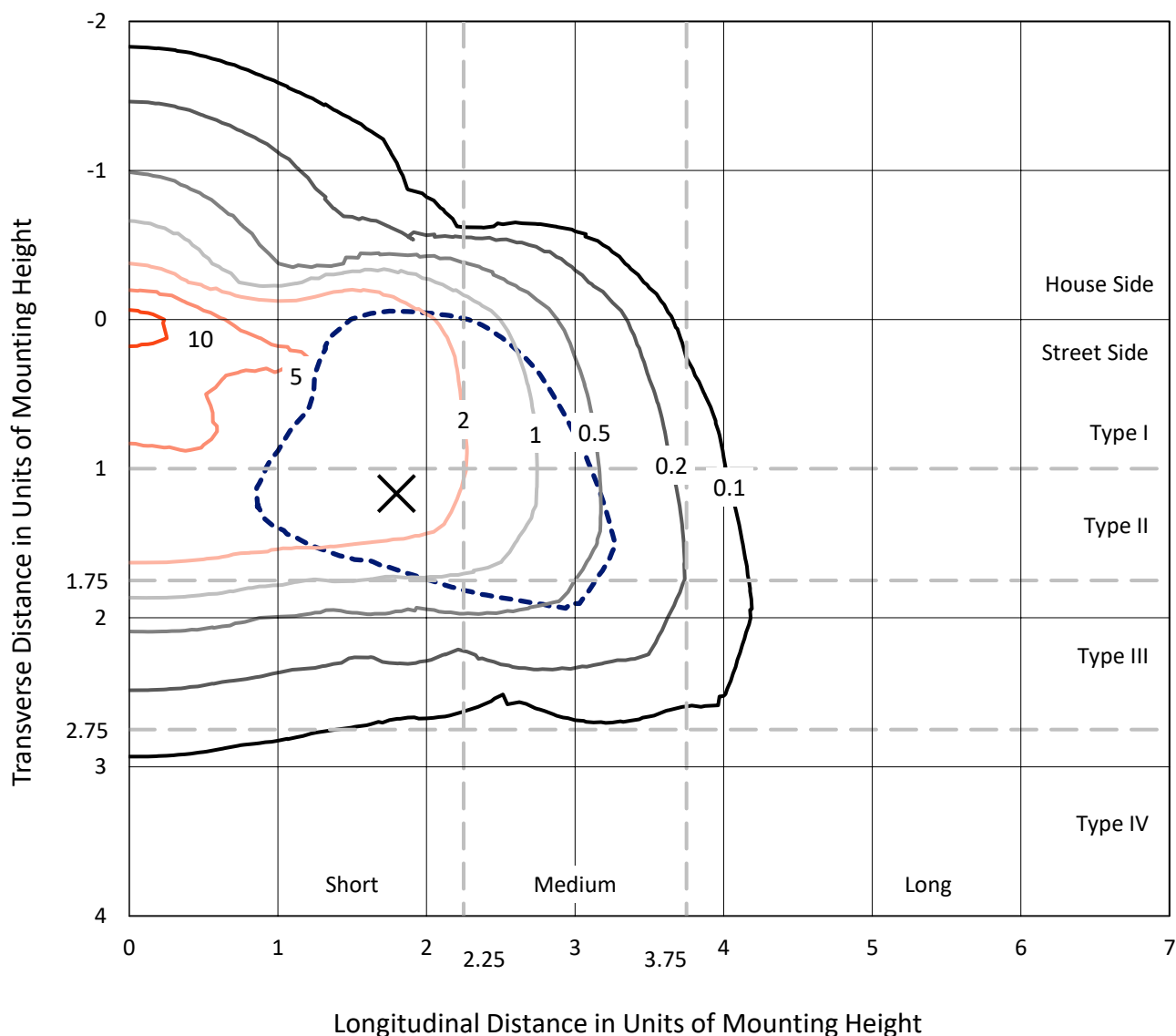
Lumens per Lamp: N/A  
Luminaire Lumens: 28123.9 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6  
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

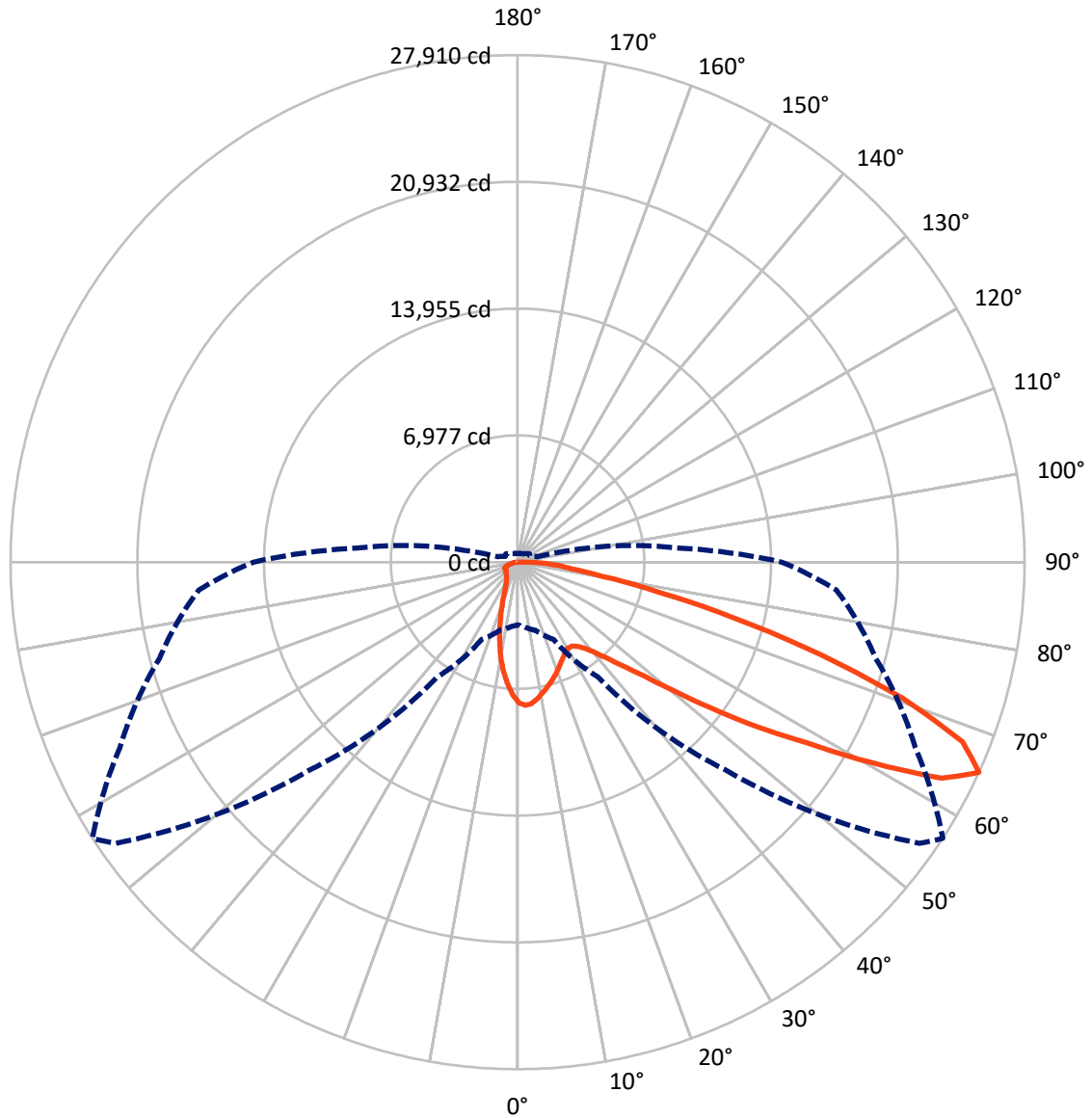
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	4313.1	0.0	4313.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	23810.8	0.0	23810.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	28123.9	0.0	28123.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	647.6	2.3
10°-20°	1393.8	5.0
20°-30°	1802.1	6.4
30°-40°	2425.0	8.6
40°-50°	3866.8	13.7
50°-60°	6829.7	24.3
60°-70°	7513.6	26.7
70°-80°	3143.0	11.2
80°-90°	502.3	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°	28123.9	100.0
0°-180°	28123.9	100.0

**Coefficient of Utilization**



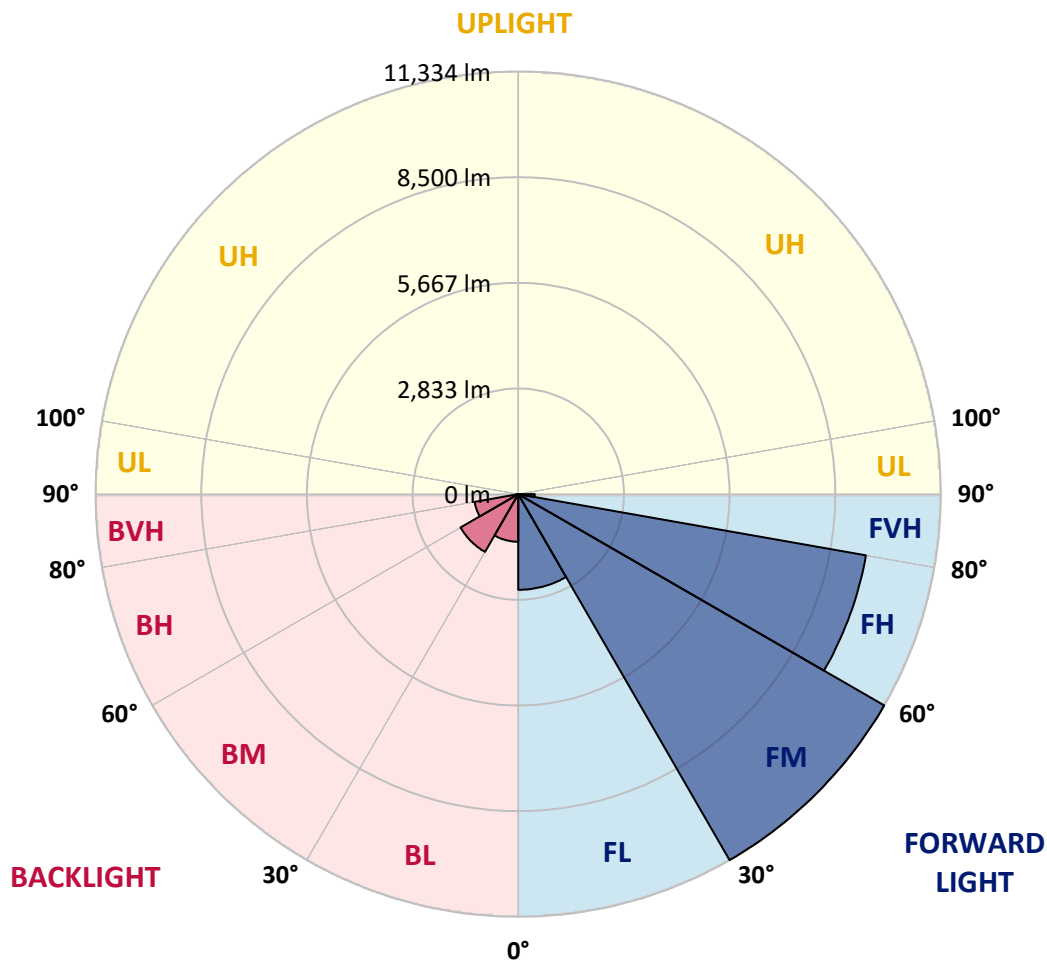
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2566.2	9.1			
FM (30°-60°)	11333.9	40.3			
FH (60°-80°)	9467.4	33.7			G4/12000
FVH (80°-90°)	443.4	1.6			G3/500
BL (0°-30°)	1277.3	4.5	B3/2500		
BM (30°-60°)	1787.6	6.4	B2/2500		
BH (60°-80°)	1189.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	58.9	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°	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7
2.5°	7942.5	7955.2	7955.2	7980.5	7895.1	7936.2	7929.9	7891.9	7904.6	7838.1	7771.6
5°	7717.9	7708.4	7759.0	7765.3	7831.8	7850.8	7866.6	7841.3	7847.6	7702.0	7638.7
7.5°	7141.9	7138.8	7224.2	7297.0	7436.2	7566.0	7651.4	7626.1	7660.9	7569.1	7420.4
10°	6458.4	6531.2	6619.8	6692.6	6948.9	7113.5	7335.0	7357.1	7490.0	7467.9	7198.9
12.5°	5945.8	5977.5	6043.9	6252.8	6486.9	6759.1	7075.5	7104.0	7233.7	7297.0	7062.8
15°	5525.0	5553.4	5638.9	5793.9	6056.6	6379.3	6781.2	6854.0	7113.5	7135.6	6885.6
17.5°	5218.0	5240.2	5297.1	5452.2	5667.4	6081.9	6461.6	6591.3	6933.1	7040.7	6702.1
20°	5097.8	5050.3	5082.0	5180.0	5395.2	5714.8	6205.3	6319.2	6755.9	6967.9	6528.1
22.5°	5044.0	5002.8	5021.8	5015.5	5186.4	5414.2	5930.0	6050.2	6588.2	6882.5	6373.0
25°	5085.1	5085.1	5066.1	5050.3	5069.3	5218.0	5632.5	5819.2	6363.5	6809.7	6214.8
27.5°	5306.6	5221.2	5230.7	5164.2	5145.2	5145.2	5499.6	5610.4	6290.7	6768.6	6085.0
30°	5449.0	5490.2	5493.3	5395.2	5297.1	5119.9	5376.2	5483.8	6230.6	6819.2	6009.1
32.5°	5812.9	5793.9	5740.1	5721.1	5575.6	5376.2	5436.4	5509.1	6195.8	6933.1	6031.3
35°	6176.8	6167.3	6170.5	6161.0	6009.1	5714.8	5597.7	5695.8	6259.1	7132.5	6107.2
37.5°	6553.4	6578.7	6686.3	6686.3	6524.9	6205.3	6050.2	6021.8	6490.1	7458.4	6287.6
40°	6929.9	6993.2	7129.3	7344.5	7116.6	6819.2	6569.2	6524.9	6768.6	7895.1	6721.1
42.5°	7290.7	7395.1	7664.1	7983.7	7907.7	7610.3	7278.0	7227.4	7341.3	8543.8	7325.5
45°	7752.7	7841.3	8265.3	8755.8	8860.2	8597.5	8208.3	8167.2	8160.9	9493.1	8157.7
47.5°	8455.1	8550.1	8974.1	9467.7	9790.5	9831.6	9395.0	9350.7	9198.8	10774.6	9376.0
50°	9334.8	9489.9	9847.5	10423.4	10891.7	11331.5	11208.1	11078.4	10780.9	12265.0	10920.2
52.5°	9977.2	10167.1	10651.2	11388.5	12214.4	12913.7	13356.7	13356.7	12673.2	13901.0	12777.7
55°	10148.1	10262.0	10872.7	11939.1	13353.6	15122.4	16049.6	15980.0	14926.3	15622.4	14938.9
57.5°	9467.7	9616.5	10356.9	11473.9	13951.6	17188.8	18723.5	18739.3	17388.1	17622.3	17071.7
60°	7594.4	7641.9	8515.3	10008.8	13375.7	18853.2	22375.1	22435.3	20188.6	19403.8	18157.1
62.5°	5249.7	5401.5	6059.7	7369.8	11081.6	18666.5	25897.1	26194.5	22432.1	20343.6	18327.9
65°	3455.5	3547.2	3898.5	4695.9	7714.7	16179.3	26991.9	27909.6	24147.2	20397.4	17612.8
67.5°	2506.2	2522.0	2626.4	3037.8	4635.8	11635.3	25121.8	26416.0	24789.5	19948.1	15935.7
70°	2025.2	2037.8	2075.8	2338.5	2993.5	7281.2	20489.2	22517.5	22862.4	17818.5	12834.6
72.5°	1645.5	1661.3	1708.8	1955.6	2468.2	4050.4	14983.2	17454.6	18596.9	13182.7	8531.1
75°	1294.2	1306.9	1420.8	1664.4	2319.5	2781.5	9939.2	12360.0	12515.0	7705.2	3993.4
77.5°	886.0	908.2	1047.4	1411.3	2183.4	2433.4	6195.8	7917.2	7104.0	3015.6	1373.3
80°	563.3	594.9	677.2	1069.6	1930.3	2322.6	3854.2	4727.5	3110.6	1031.6	661.3
82.5°	332.3	363.9	446.2	693.0	1515.7	2154.9	2715.0	2958.7	1458.8	528.4	398.7
85°	183.5	205.7	269.0	417.7	889.2	1914.4	2173.9	2123.3	835.4	281.6	250.0
87.5°	60.1	69.6	98.1	167.7	367.1	901.8	1303.7	1224.6	433.5	129.7	98.1
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°	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7	7733.7
2.5°	7727.3	7717.9	7575.5	7467.9	7284.3	7132.5	7072.3	6990.1	6986.9	6926.8	6910.9
5°	7540.7	7442.6	7224.2	7015.4	6689.4	6471.1	6271.7	6132.5	6075.6	5952.1	5923.7
7.5°	7300.2	7170.4	6835.0	6442.6	6059.7	5718.0	5407.9	5097.8	4923.7	4863.6	4797.2
10°	7050.2	6822.3	6325.5	5885.7	5350.9	4825.6	4338.3	3901.6	3664.3	3496.6	3423.8
12.5°	6850.8	6547.0	5914.2	5256.0	4550.3	3847.9	3281.4	2822.6	2553.6	2427.1	2370.1
15°	6626.2	6224.3	5464.8	4632.6	3752.9	2955.5	2401.7	2041.0	1933.4	1873.3	1863.8
17.5°	6388.8	5923.7	4977.5	4018.7	2974.5	2224.5	1867.0	1721.4	1673.9	1648.6	1636.0
20°	6167.3	5654.7	4477.6	3335.2	2329.0	1784.7	1617.0	1541.0	1537.9	1550.5	1547.4
22.5°	5854.1	5303.5	3983.9	2702.4	1860.6	1553.7	1446.1	1427.1	1446.1	1461.9	1468.3
25°	5676.8	5015.5	3433.3	2145.4	1537.9	1379.7	1344.8	1338.5	1367.0	1386.0	1382.8
27.5°	5493.3	4718.0	2920.7	1718.2	1348.0	1256.2	1249.9	1256.2	1284.7	1313.2	1310.0
30°	5350.9	4480.7	2439.7	1436.6	1202.5	1167.6	1161.3	1167.6	1183.5	1186.6	1186.6
32.5°	5233.8	4199.1	2031.5	1246.8	1113.9	1085.4	1091.7	1088.5	1091.7	1094.9	1098.0
35°	5164.2	4031.4	1696.1	1129.7	1041.1	1018.9	1015.8	1006.3	1009.4	1012.6	1009.4
37.5°	5312.9	3949.1	1430.3	1047.4	990.4	971.5	965.1	958.8	949.3	949.3	949.3
40°	5537.6	3904.8	1268.9	993.6	952.5	930.3	911.3	905.0	905.0	908.2	911.3
42.5°	5983.8	3977.6	1158.2	952.5	905.0	879.7	860.7	863.9	873.4	882.9	876.5
45°	6629.3	4199.1	1107.5	920.8	876.5	841.7	829.1	825.9	835.4	851.2	863.9
47.5°	7474.2	4544.0	1088.5	892.3	857.5	810.1	794.3	803.7	816.4	838.6	829.1
50°	8857.0	5319.3	1104.4	867.0	829.1	794.3	775.3	765.8	775.3	791.1	797.4
52.5°	10663.9	6727.4	1164.5	854.4	810.1	781.6	750.0	734.1	743.6	756.3	756.3
55°	12825.1	8651.3	1332.2	838.6	778.4	762.6	727.8	696.2	702.5	702.5	699.3
57.5°	14730.1	10103.8	1531.5	816.4	759.4	737.3	693.0	655.0	648.7	651.9	655.0
60°	15584.4	10489.8	1626.5	810.1	759.4	705.7	645.5	607.6	598.1	591.7	591.7
62.5°	15435.7	9822.2	1433.5	781.6	778.4	680.3	601.2	560.1	547.4	534.8	537.9
65°	14537.0	8869.7	1129.7	743.6	781.6	664.5	556.9	515.8	493.6	477.8	474.7
67.5°	12894.7	7572.3	895.5	715.1	750.0	636.0	519.0	471.5	452.5	436.7	430.4
70°	10088.0	5936.3	778.4	677.2	674.0	566.4	474.7	433.5	405.0	386.1	386.1
72.5°	6540.7	3752.9	667.7	601.2	582.2	474.7	411.4	386.1	363.9	348.1	348.1
75°	2961.8	1743.6	537.9	503.1	474.7	379.7	348.1	335.4	316.4	300.6	300.6
77.5°	1063.2	743.6	401.9	395.5	354.4	294.3	281.6	272.1	259.5	243.7	243.7
80°	594.9	471.5	300.6	288.0	246.8	218.3	202.5	202.5	196.2	186.7	183.5
82.5°	376.6	306.9	221.5	193.0	161.4	145.6	139.2	136.1	132.9	120.2	117.1
85°	237.3	208.8	145.6	113.9	94.9	72.8	69.6	66.5	60.1	53.8	53.8
87.5°	107.6	120.2	57.0	34.8	25.3	15.8	9.5	3.2	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)