

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: P476895

Luminaire Tested: **IFLD-L-SA7B-727-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476895  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

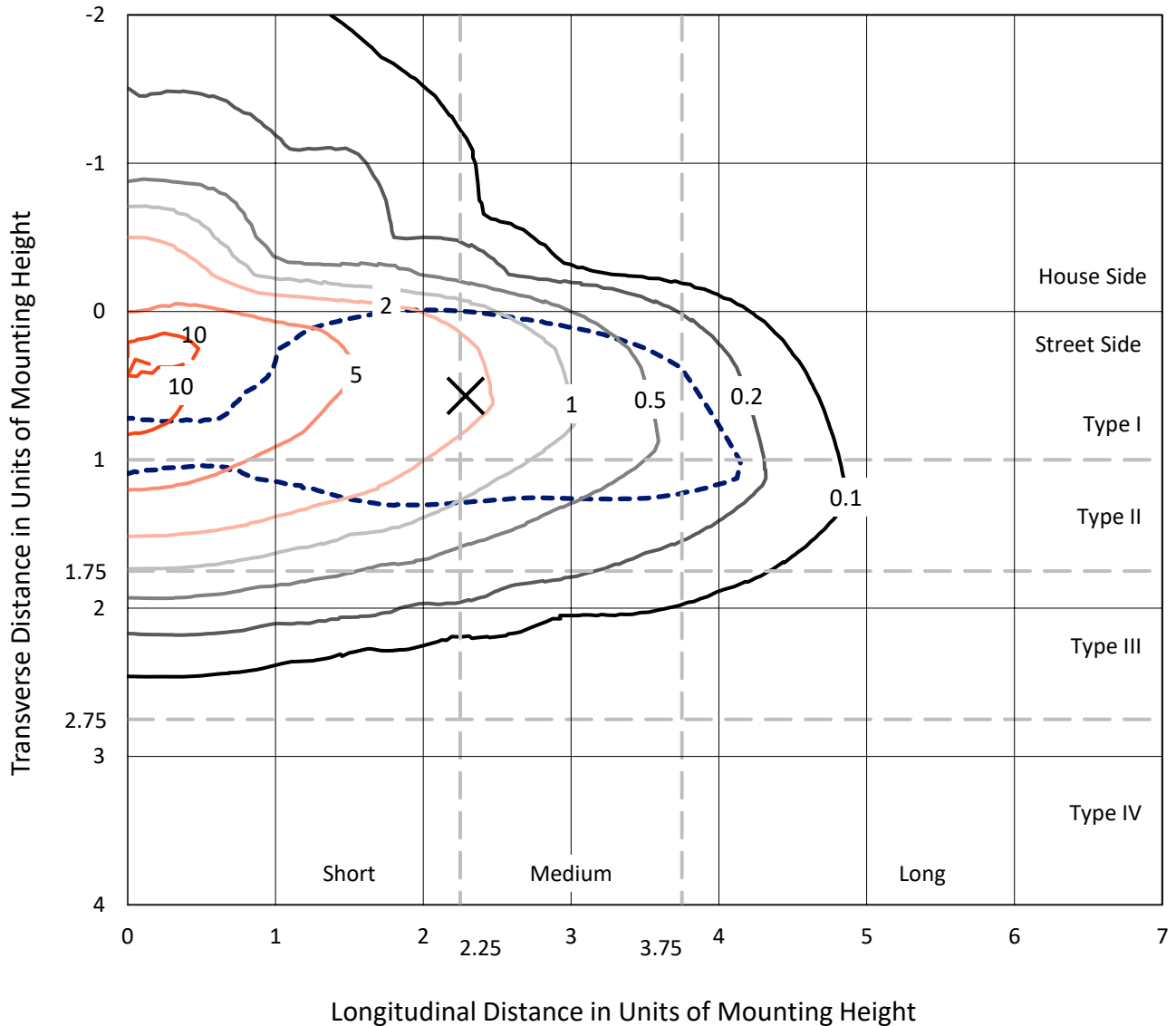
Lumens per Lamp: N/A  
Luminaire Lumens: 29949.8 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

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

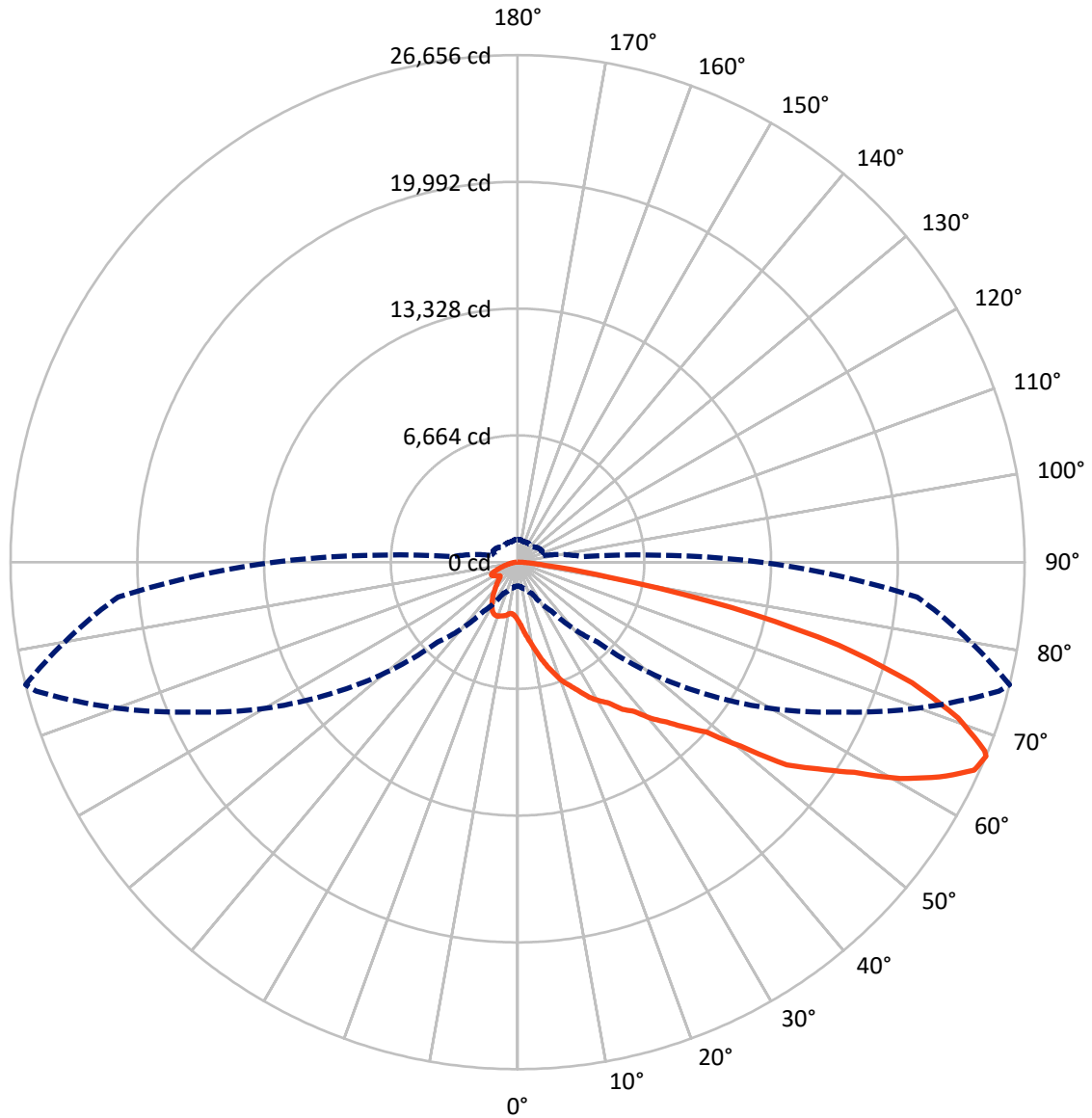
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4260.7	0.0	4260.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	25689.0	0.0	25689.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	29949.8	0.0	29949.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.0	1.2
10°-20°	1331.5	4.4
20°-30°	2475.5	8.3
30°-40°	3924.2	13.1
40°-50°	5427.5	18.1
50°-60°	6676.2	22.3
60°-70°	6212.5	20.7
70°-80°	3117.4	10.4
80°-90°	429.8	1.4
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°	29949.8	100.0
0°-180°	29949.8	100.0

**Coefficient of Utilization**

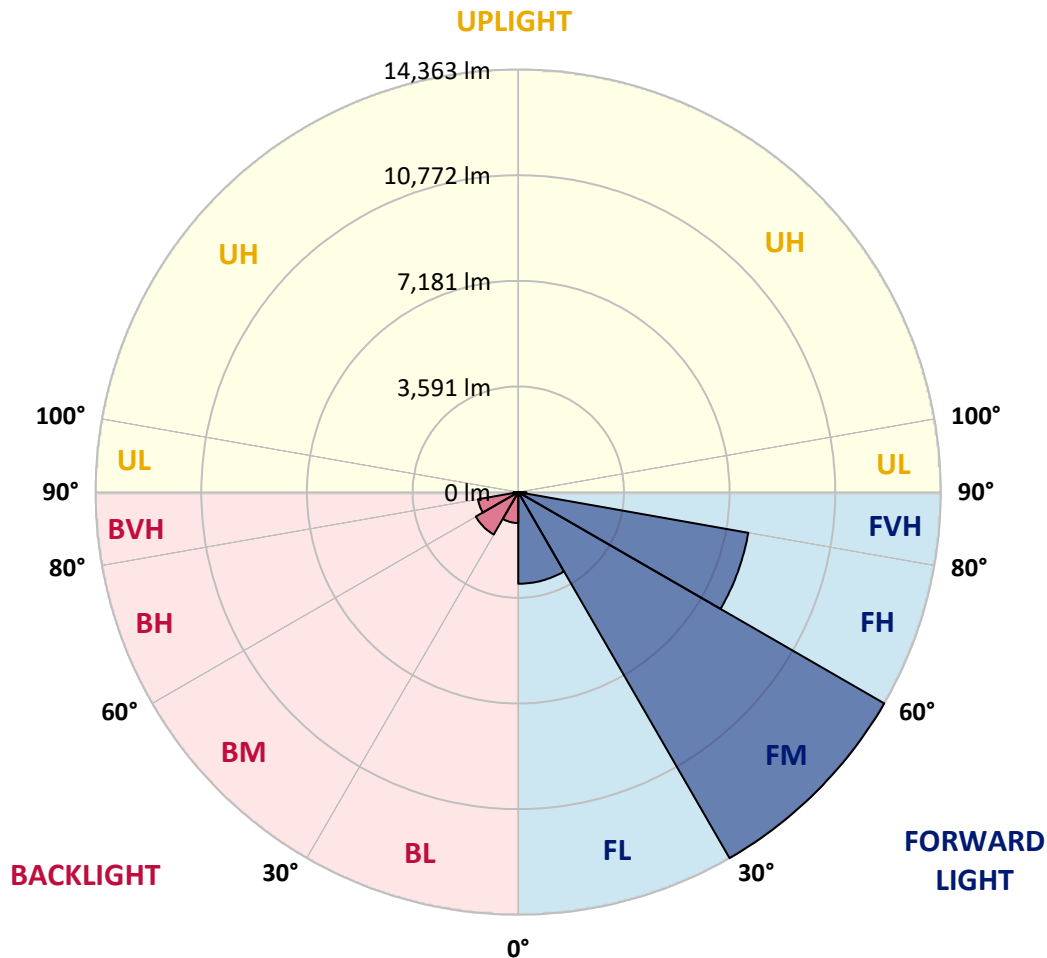


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3112.8	10.4			
FM (30°-60°)	14362.9	48.0			
FH (60°-80°)	7939.4	26.5			G4/12000
FVH (80°-90°)	273.9	0.9			G3/500
BL (0°-30°)	1049.2	3.5	B3/2500		
BM (30°-60°)	1665.0	5.6	B2/2500		
BH (60°-80°)	1390.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	156.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9
2.5°	4252.6	4201.4	4150.2	4041.0	4003.5	3901.1	3713.4	3505.2	3334.5	3310.6	3191.2
5°	5276.5	5201.5	5184.4	5123.0	4928.4	4730.5	4423.3	4088.8	3672.4	3703.1	3293.6
7.5°	6044.5	6000.1	5908.0	5849.9	5733.9	5471.1	5153.7	4710.0	4181.0	4078.6	3522.2
10°	6624.7	6563.3	6559.8	6508.6	6447.2	6177.6	5935.3	5338.0	4658.8	4518.9	3802.1
12.5°	6918.2	6908.0	7088.9	7088.9	7065.0	6952.3	6536.0	5989.9	5112.7	5064.9	4126.4
15°	7235.6	7150.3	7307.3	7426.8	7488.2	7546.2	7201.5	6624.7	5692.9	5600.8	4474.5
17.5°	7235.6	7228.8	7385.8	7583.8	7904.6	7979.7	7791.9	7208.3	6174.2	6105.9	4856.7
20°	7112.8	7211.7	7320.9	7587.2	7935.3	8239.1	8293.7	7805.6	6706.6	6652.0	5290.2
22.5°	7686.1	7590.6	7703.2	7805.6	8075.2	8536.0	8686.2	8331.2	7266.3	7058.1	5682.7
25°	8648.6	8583.8	8501.9	8351.7	8464.3	8665.7	8894.4	8720.3	7744.2	7512.1	6061.5
27.5°	9587.2	9590.6	9413.1	9085.5	8843.2	8884.1	9153.7	9061.6	8146.9	8044.5	6320.9
30°	10921.7	10839.8	10641.8	10198.1	9723.7	9334.6	9290.3	9379.0	8658.9	8460.9	6693.0
32.5°	11921.7	11938.8	11658.9	11020.7	10372.2	10054.8	9665.7	9703.2	8983.1	8836.3	6989.9
35°	12730.6	12710.1	12512.2	11983.1	11215.2	10833.0	10307.3	10092.3	9737.4	9505.3	7443.8
37.5°	13604.3	13437.1	13116.3	12519.0	12027.5	11498.5	10986.5	10501.9	10239.1	9959.2	7832.9
40°	13955.9	13955.9	13525.8	13252.8	12669.2	12269.8	11938.8	11041.2	10850.0	10795.4	8331.2
42.5°	13706.7	13860.3	13682.8	13372.3	13133.3	12628.2	12539.5	11600.9	11604.3	11495.1	8928.5
45°	13682.8	13471.2	13324.5	13403.0	13290.3	13263.0	13488.3	12375.6	12396.1	12382.5	9730.5
47.5°	12996.8	12901.3	13119.7	13249.4	13341.5	13764.7	14413.2	13300.6	13447.3	13344.9	10655.5
50°	12314.2	12297.1	12433.7	12904.7	13304.0	14000.2	15293.8	14727.2	15208.5	15201.6	12331.3
52.5°	10443.9	10624.8	11160.6	12157.2	13143.6	14321.1	15959.3	16549.8	17467.9	17717.0	13720.4
55°	8655.4	8559.9	9351.7	10798.8	12443.9	14447.4	16703.4	17645.4	18996.9	19177.8	15147.0
57.5°	6733.9	6911.4	7536.0	8925.1	10996.8	13822.8	17249.5	18727.3	20723.9	20863.9	16802.3
60°	5024.0	5047.9	5733.9	6853.4	9071.8	12413.2	17426.9	19836.5	22703.5	23102.8	18536.2
62.5°	3160.5	3303.8	3826.0	4928.4	6829.5	10440.5	16631.7	20508.9	24778.6	24884.4	20283.6
65°	1703.1	1795.3	2187.8	2880.6	4771.4	7897.8	14522.4	20106.2	25754.7	26382.7	21061.8
67°	1259.4	1276.5	1457.4	1839.6	3191.2	5945.5	12109.4	18648.8	26198.4	26655.8	21092.5
67.5°	1180.9	1204.8	1348.1	1651.9	2829.4	5474.5	11478.0	18130.0	26000.5	26491.9	20853.6
70°	1010.3	1017.1	1051.2	1136.5	1587.1	3293.6	7815.8	14856.9	24099.4	24570.4	19177.8
72.5°	897.6	904.5	918.1	935.2	1075.1	1904.5	4754.4	11433.6	20945.8	21696.6	16546.4
75°	788.4	812.3	819.1	805.5	914.7	1238.9	2529.1	8402.9	17085.6	17450.8	12867.1
77.5°	669.0	679.2	692.8	706.5	815.7	924.9	1215.0	5672.5	11727.2	11505.3	6959.2
80°	563.1	566.6	576.8	587.0	706.5	706.5	689.4	3064.9	5123.0	4897.7	2351.6
82.5°	402.7	426.6	450.5	477.8	587.0	474.4	450.5	1365.2	1621.2	1542.7	795.2
85°	157.0	191.1	296.9	327.7	372.0	256.0	300.3	590.5	675.8	669.0	296.9
87.5°	27.3	30.7	81.9	126.3	136.5	88.7	143.3	211.6	252.6	273.0	109.2
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°	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9	3064.9
2.5°	3092.2	2986.4	2860.1	2733.8	2651.9	2522.2	2512.0	2433.5	2423.3	2395.9	2409.6
5°	3116.1	2989.8	2733.8	2532.5	2440.3	2365.2	2382.3	2348.2	2337.9	2320.9	2293.6
7.5°	3303.8	3054.7	2672.4	2498.3	2430.1	2395.9	2395.9	2355.0	2324.3	2344.8	2365.2
10°	3426.7	3085.4	2720.2	2546.1	2491.5	2416.4	2443.7	2392.5	2409.6	2368.6	2368.6
12.5°	3624.6	3259.4	2819.2	2617.8	2529.1	2460.8	2488.1	2430.1	2416.4	2419.8	2409.6
15°	3890.9	3375.5	2863.5	2658.8	2597.3	2512.0	2491.5	2440.3	2389.1	2372.1	2392.5
17.5°	4140.0	3518.8	2894.2	2682.6	2583.7	2488.1	2464.2	2399.4	2382.3	2331.1	2290.1
20°	4436.9	3689.5	2935.2	2703.1	2532.5	2436.9	2375.5	2310.6	2252.6	2221.9	2235.5
22.5°	4634.9	3778.2	2955.7	2662.2	2457.4	2368.6	2238.9	2194.6	2112.7	2078.5	2051.2
25°	4959.1	3887.4	2904.5	2549.5	2324.3	2180.9	2064.9	2003.4	1945.4	1901.1	1887.4
27.5°	5041.0	3969.4	2785.0	2358.4	2112.7	1962.5	1863.5	1788.4	1750.9	1682.6	1669.0
30°	5280.0	3887.4	2607.6	2126.3	1911.3	1757.7	1658.7	1604.1	1515.4	1498.3	1460.8
32.5°	5433.5	3911.3	2382.3	1901.1	1679.2	1542.7	1477.8	1423.2	1399.3	1317.4	1297.0
35°	5689.5	3829.4	2153.6	1692.9	1488.1	1382.3	1327.7	1310.6	1232.1	1194.6	1160.4
37.5°	5853.3	3781.6	1924.9	1457.4	1279.9	1235.5	1252.6	1180.9	1085.3	1013.7	989.8
40°	6140.0	3764.6	1665.6	1262.8	1136.5	1126.3	1180.9	1044.4	870.3	808.9	774.8
42.5°	6553.0	3648.5	1464.2	1088.8	1023.9	1068.3	1078.5	870.3	771.3	720.1	696.3
45°	6948.9	3672.4	1266.2	901.0	890.8	955.6	931.8	737.2	679.2	641.6	662.1
47.5°	7710.0	3791.9	1071.7	750.9	802.1	863.5	723.6	658.7	604.1	576.8	580.2
50°	8887.5	3907.9	901.0	686.0	757.7	781.6	621.2	597.3	593.9	539.3	535.8
52.5°	9594.0	3863.5	870.3	767.9	812.3	781.6	675.8	658.7	631.4	607.5	580.2
55°	10716.9	3993.2	935.2	897.6	921.5	750.9	757.7	750.9	730.4	669.0	686.0
57.5°	11611.1	4078.6	1020.5	1003.4	989.8	781.6	791.8	795.2	781.6	754.3	778.2
60°	12839.8	4249.2	1109.2	1112.6	1116.1	849.8	866.9	887.4	884.0	873.7	880.6
62.5°	13594.1	4170.7	1208.2	1262.8	1245.8	989.8	986.4	1000.0	1000.0	1017.1	1027.3
65°	13481.5	3880.6	1259.4	1395.9	1307.2	1092.2	1092.2	1099.0	1102.4	1136.5	1140.0
67°	12805.7	3361.8	1232.1	1416.4	1307.2	1133.1	1133.1	1140.0	1116.1	1204.8	1177.5
67.5°	12491.7	3208.2	1208.2	1399.3	1297.0	1129.7	1129.7	1133.1	1112.6	1198.0	1170.7
70°	10863.7	2382.3	1041.0	1238.9	1201.4	1099.0	1099.0	1078.5	1061.5	1174.1	1150.2
72.5°	9273.2	1730.4	836.2	1054.6	1085.3	1058.0	1064.9	1013.7	965.9	1044.4	1023.9
75°	7102.5	1273.1	651.9	812.3	918.1	989.8	1034.1	904.5	843.0	863.5	826.0
77.5°	3962.5	829.4	515.4	600.7	699.7	921.5	993.2	815.7	689.4	665.5	665.5
80°	1344.7	484.7	378.8	447.1	481.2	815.7	928.3	662.1	542.7	518.8	501.7
82.5°	508.5	296.9	259.4	307.2	307.2	645.1	757.7	508.5	409.6	529.0	539.3
85°	232.1	177.5	170.7	177.5	177.5	395.9	535.8	331.1	368.6	317.4	279.9
87.5°	92.2	85.3	78.5	75.1	61.4	68.3	184.3	88.7	167.2	44.4	41.0
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)