

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: P477011

Luminaire Tested: **IFLD-L-SA7A-740-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477011  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-740-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

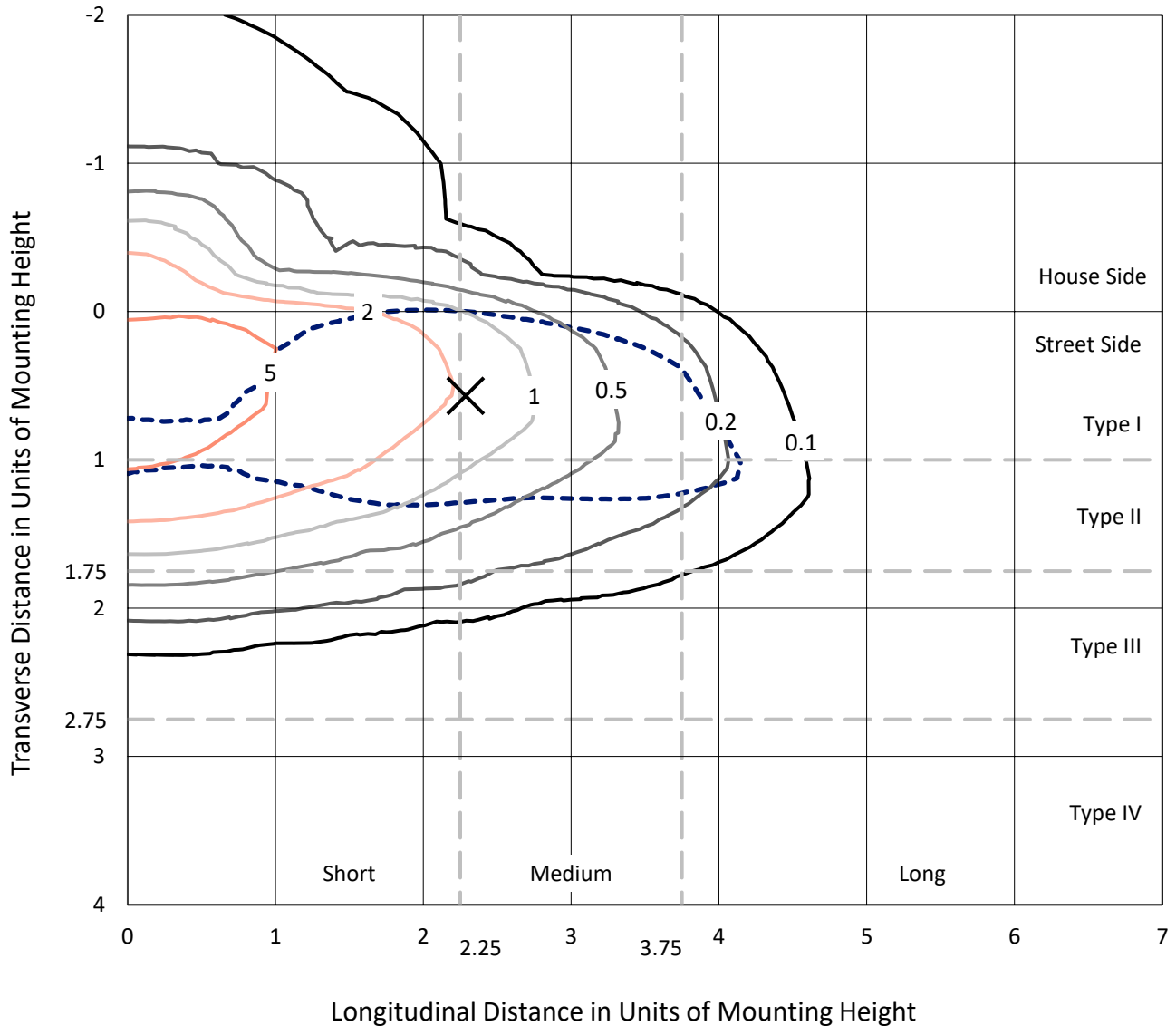
Lumens per Lamp: N/A  
Luminaire Lumens: 31476.4 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

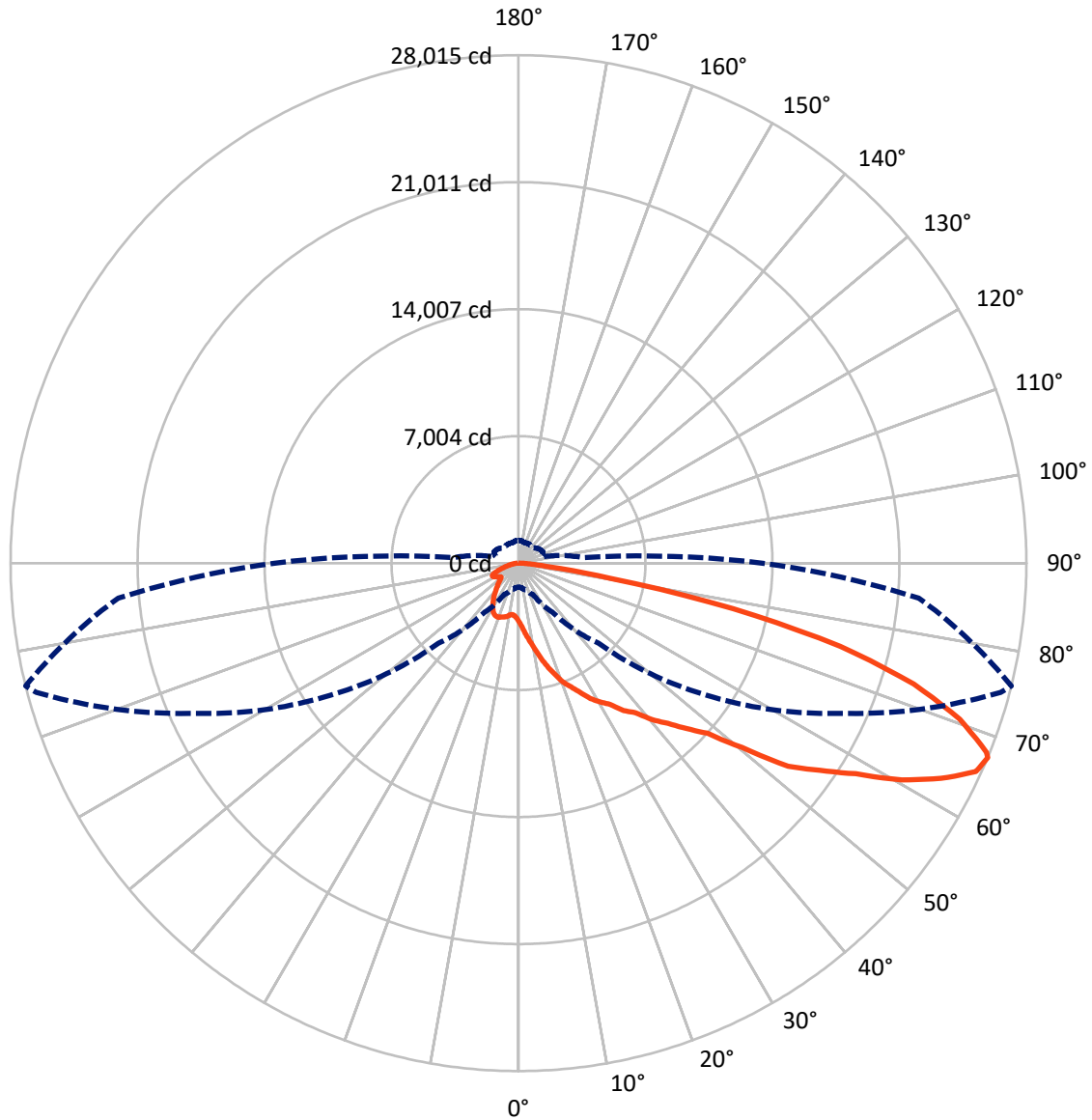
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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	4477.9	0.0	4477.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	26998.5	0.0	26998.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	31476.4	0.0	31476.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.1	1.2
10°-20°	1399.4	4.4
20°-30°	2601.7	8.3
30°-40°	4124.2	13.1
40°-50°	5704.2	18.1
50°-60°	7016.5	22.3
60°-70°	6529.2	20.7
70°-80°	3276.3	10.4
80°-90°	451.8	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°	31476.4	100.0
0°-180°	31476.4	100.0

**Coefficient of Utilization**



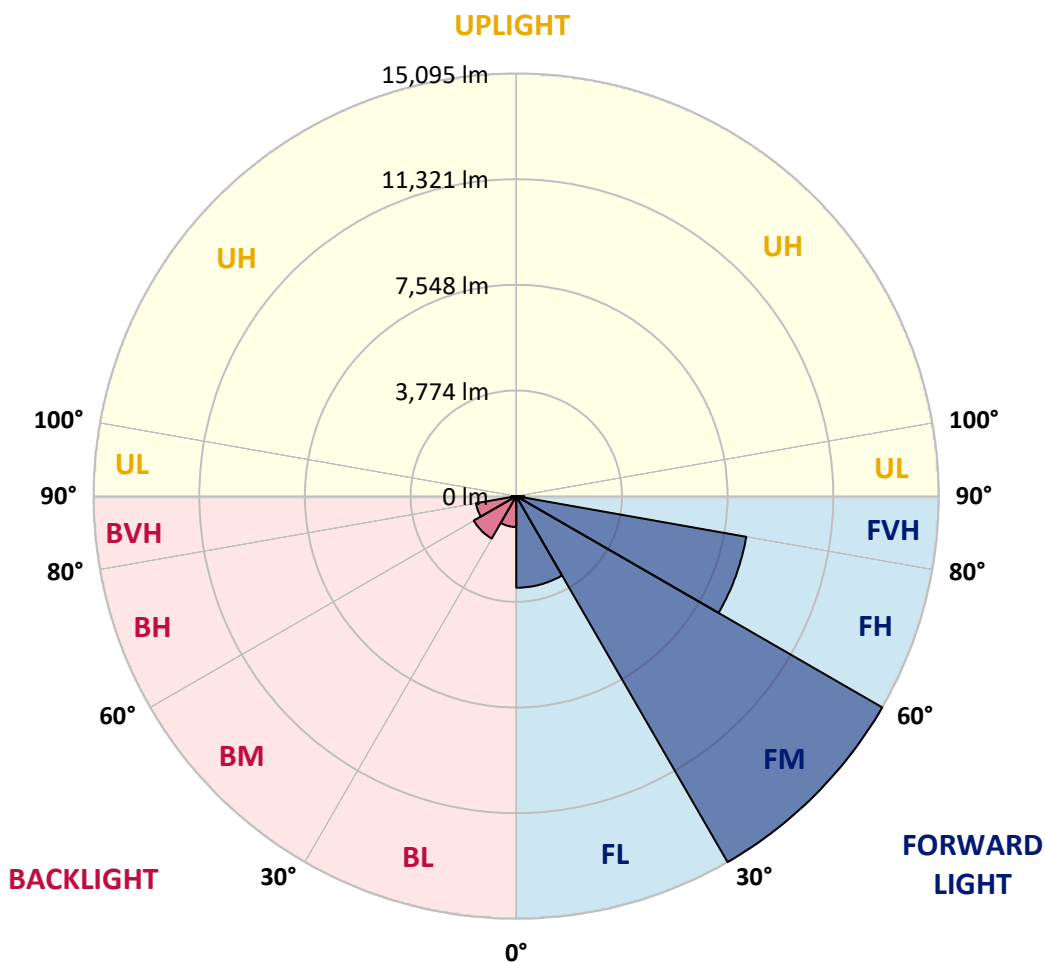
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3271.5	10.4			
FM (30°-60°)	15095.1	48.0			
FH (60°-80°)	8344.1	26.5			G4/12000
FVH (80°-90°)	287.8	0.9			G3/500
BL (0°-30°)	1102.7	3.5	B3/2500		
BM (30°-60°)	1749.9	5.6	B2/2500		
BH (60°-80°)	1461.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	163.9	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°	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1
2.5°	4469.4	4415.6	4361.8	4247.0	4207.6	4099.9	3902.7	3683.9	3504.5	3479.4	3353.9
5°	5545.5	5466.6	5448.7	5384.1	5179.6	4971.6	4648.8	4297.2	3859.6	3891.9	3461.5
7.5°	6352.6	6306.0	6209.1	6148.1	6026.2	5750.0	5416.4	4950.1	4394.1	4286.5	3701.8
10°	6962.4	6897.8	6894.2	6840.4	6775.9	6492.5	6237.8	5610.1	4896.3	4749.2	3995.9
12.5°	7270.9	7260.1	7450.2	7450.2	7425.1	7306.7	6869.1	6295.2	5373.3	5323.1	4336.7
15°	7604.5	7514.8	7679.8	7805.3	7869.9	7930.9	7568.6	6962.4	5983.1	5886.3	4702.6
17.5°	7604.5	7597.3	7762.3	7970.3	8307.5	8386.4	8189.1	7575.8	6488.9	6417.2	5104.3
20°	7475.3	7579.3	7694.1	7973.9	8339.8	8659.0	8716.4	8203.5	7048.5	6991.1	5559.9
22.5°	8077.9	7977.5	8095.9	8203.5	8486.9	8971.1	9128.9	8755.9	7636.7	7417.9	5972.4
25°	9089.5	9021.3	8935.2	8777.4	8895.8	9107.4	9347.7	9164.8	8138.9	7895.0	6370.5
27.5°	10075.9	10079.5	9893.0	9548.6	9293.9	9337.0	9620.4	9523.5	8562.2	8454.6	6643.1
30°	11478.4	11392.3	11184.3	10718.0	10219.4	9810.5	9763.8	9857.1	9100.2	8892.2	7034.1
32.5°	12529.4	12547.4	12253.2	11582.4	10900.9	10567.3	10158.4	10197.9	9441.0	9286.8	7346.2
35°	13379.5	13358.0	13150.0	12594.0	11786.9	11385.2	10832.8	10606.8	10233.7	9989.8	7823.3
37.5°	14297.8	14122.0	13784.9	13157.1	12640.6	12084.6	11546.6	11037.2	10761.0	10466.9	8232.2
40°	14667.3	14667.3	14215.3	13928.3	13315.0	12895.3	12547.4	11604.0	11403.1	11345.7	8755.9
42.5°	14405.4	14566.8	14380.3	14053.9	13802.8	13271.9	13178.7	12192.2	12195.8	12081.0	9383.6
45°	14380.3	14157.9	14003.7	14086.2	13967.8	13939.1	14175.9	13006.5	13028.0	13013.7	10226.6
47.5°	13659.3	13558.9	13788.5	13924.8	14021.6	14466.4	15147.9	13978.6	14132.8	14025.2	11198.6
50°	12941.9	12924.0	13067.5	13562.5	13982.2	14713.9	16073.4	15477.9	15983.7	15976.5	12959.9
52.5°	10976.2	11166.4	11729.5	12776.9	13813.6	15051.1	16772.8	17393.4	18358.3	18620.2	14419.8
55°	9096.6	8996.2	9828.4	11349.3	13078.2	15183.8	17554.8	18544.8	19965.3	20155.4	15919.1
57.5°	7077.2	7263.7	7920.1	9380.0	11557.3	14527.4	18128.7	19681.9	21780.3	21927.4	17658.8
60°	5280.1	5305.2	6026.2	7202.7	9534.3	13045.9	18315.3	20847.7	23860.8	24280.4	19481.0
62.5°	3321.6	3472.2	4021.0	5179.6	7177.6	10972.7	17479.5	21554.3	26041.7	26152.9	21317.6
65°	1789.9	1886.8	2299.3	3027.4	5014.6	8300.3	15262.7	21131.1	27067.6	27727.6	22135.4
67°	1323.6	1341.5	1531.7	1933.4	3353.9	6248.6	12726.7	19599.4	27533.9	28014.5	22167.7
67.5°	1241.1	1266.2	1416.9	1736.1	2973.6	5753.6	12063.1	19054.2	27325.8	27842.3	21916.6
70°	1061.8	1068.9	1104.8	1194.5	1668.0	3461.5	8214.2	15614.2	25327.9	25822.9	20155.4
72.5°	943.4	950.6	964.9	982.8	1129.9	2001.5	4996.7	12016.5	22013.5	22802.6	17389.8
75°	828.6	853.7	860.9	846.5	961.3	1302.1	2658.0	8831.2	17956.6	18340.4	13523.0
77.5°	703.1	713.8	728.2	742.5	857.3	972.1	1277.0	5961.6	12325.0	12091.8	7313.9
80°	591.9	595.4	606.2	617.0	742.5	742.5	724.6	3221.1	5384.1	5147.4	2471.4
82.5°	423.3	448.4	473.5	502.2	617.0	498.6	473.5	1434.8	1703.8	1621.3	835.8
85°	165.0	200.9	312.1	344.4	391.0	269.0	315.7	620.6	710.2	703.1	312.1
87.5°	28.7	32.3	86.1	132.7	143.5	93.3	150.7	222.4	265.4	287.0	114.8
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°	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1
2.5°	3249.8	3138.6	3005.9	2873.2	2787.1	2650.8	2640.0	2557.5	2546.8	2518.1	2532.4
5°	3274.9	3142.2	2873.2	2661.6	2564.7	2485.8	2503.7	2467.9	2457.1	2439.2	2410.5
7.5°	3472.2	3210.4	2808.6	2625.7	2553.9	2518.1	2518.1	2475.0	2442.8	2464.3	2485.8
10°	3601.4	3242.7	2858.8	2675.9	2618.5	2539.6	2568.3	2514.5	2532.4	2489.4	2489.4
12.5°	3809.4	3425.6	2962.9	2751.2	2658.0	2586.2	2614.9	2553.9	2539.6	2543.2	2532.4
15°	4089.2	3547.5	3009.5	2794.3	2729.7	2640.0	2618.5	2564.7	2510.9	2493.0	2514.5
17.5°	4351.0	3698.2	3041.8	2819.4	2715.4	2614.9	2589.8	2521.7	2503.7	2449.9	2406.9
20°	4663.1	3877.6	3084.8	2840.9	2661.6	2561.1	2496.6	2428.4	2367.4	2335.1	2349.5
22.5°	4871.2	3970.8	3106.3	2797.9	2582.6	2489.4	2353.1	2306.4	2220.4	2184.5	2155.8
25°	5211.9	4085.6	3052.5	2679.5	2442.8	2292.1	2170.1	2105.6	2044.6	1998.0	1983.6
27.5°	5298.0	4171.7	2927.0	2478.6	2220.4	2062.5	1958.5	1879.6	1840.1	1768.4	1754.0
30°	5549.1	4085.6	2740.5	2234.7	2008.7	1847.3	1743.3	1685.9	1592.6	1574.7	1535.2
32.5°	5710.5	4110.7	2503.7	1998.0	1764.8	1621.3	1553.2	1495.8	1470.7	1384.6	1363.1
35°	5979.5	4024.6	2263.4	1779.2	1563.9	1452.7	1395.3	1377.4	1294.9	1255.5	1219.6
37.5°	6151.7	3974.4	2023.1	1531.7	1345.1	1298.5	1316.4	1241.1	1140.7	1065.3	1040.2
40°	6453.0	3956.5	1750.5	1327.2	1194.5	1183.7	1241.1	1097.6	914.7	850.1	814.3
42.5°	6887.1	3834.5	1538.8	1144.3	1076.1	1122.7	1133.5	914.7	810.7	756.9	731.7
45°	7303.1	3859.6	1330.8	947.0	936.2	1004.4	979.3	774.8	713.8	674.4	695.9
47.5°	8103.0	3985.2	1126.3	789.1	842.9	907.5	760.4	692.3	634.9	606.2	609.8
50°	9340.6	4107.1	947.0	721.0	796.3	821.4	652.8	627.7	624.1	566.7	563.2
52.5°	10083.1	4060.5	914.7	807.1	853.7	821.4	710.2	692.3	663.6	638.5	609.8
55°	11263.2	4196.8	982.8	943.4	968.5	789.1	796.3	789.1	767.6	703.1	721.0
57.5°	12203.0	4286.5	1072.5	1054.6	1040.2	821.4	832.2	835.8	821.4	792.7	817.8
60°	13494.3	4465.8	1165.8	1169.4	1173.0	893.2	911.1	932.6	929.0	918.3	925.4
62.5°	14287.0	4383.3	1269.8	1327.2	1309.3	1040.2	1036.6	1051.0	1051.0	1068.9	1079.7
65°	14168.7	4078.4	1323.6	1467.1	1373.8	1147.8	1147.8	1155.0	1158.6	1194.5	1198.1
67°	13458.4	3533.2	1294.9	1488.6	1373.8	1190.9	1190.9	1198.1	1173.0	1266.2	1237.5
67.5°	13128.4	3371.8	1269.8	1470.7	1363.1	1187.3	1187.3	1190.9	1169.4	1259.0	1230.3
70°	11417.4	2503.7	1094.0	1302.1	1262.6	1155.0	1155.0	1133.5	1115.6	1233.9	1208.8
72.5°	9745.9	1818.6	878.8	1108.4	1140.7	1112.0	1119.1	1065.3	1015.1	1097.6	1076.1
75°	7464.6	1338.0	685.1	853.7	964.9	1040.2	1086.9	950.6	886.0	907.5	868.1
77.5°	4164.5	871.6	541.6	631.3	735.3	968.5	1043.8	857.3	724.6	699.5	699.5
80°	1413.3	509.4	398.2	469.9	505.8	857.3	975.7	695.9	570.3	545.2	527.3
82.5°	534.5	312.1	272.6	322.8	322.8	677.9	796.3	534.5	430.4	556.0	566.7
85°	243.9	186.5	179.4	186.5	186.5	416.1	563.2	347.9	387.4	333.6	294.1
87.5°	96.8	89.7	82.5	78.9	64.6	71.7	193.7	93.3	175.8	46.6	43.0
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)