

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: P476889

Luminaire Tested: **IFLD-M-SA4A-727-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476889  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

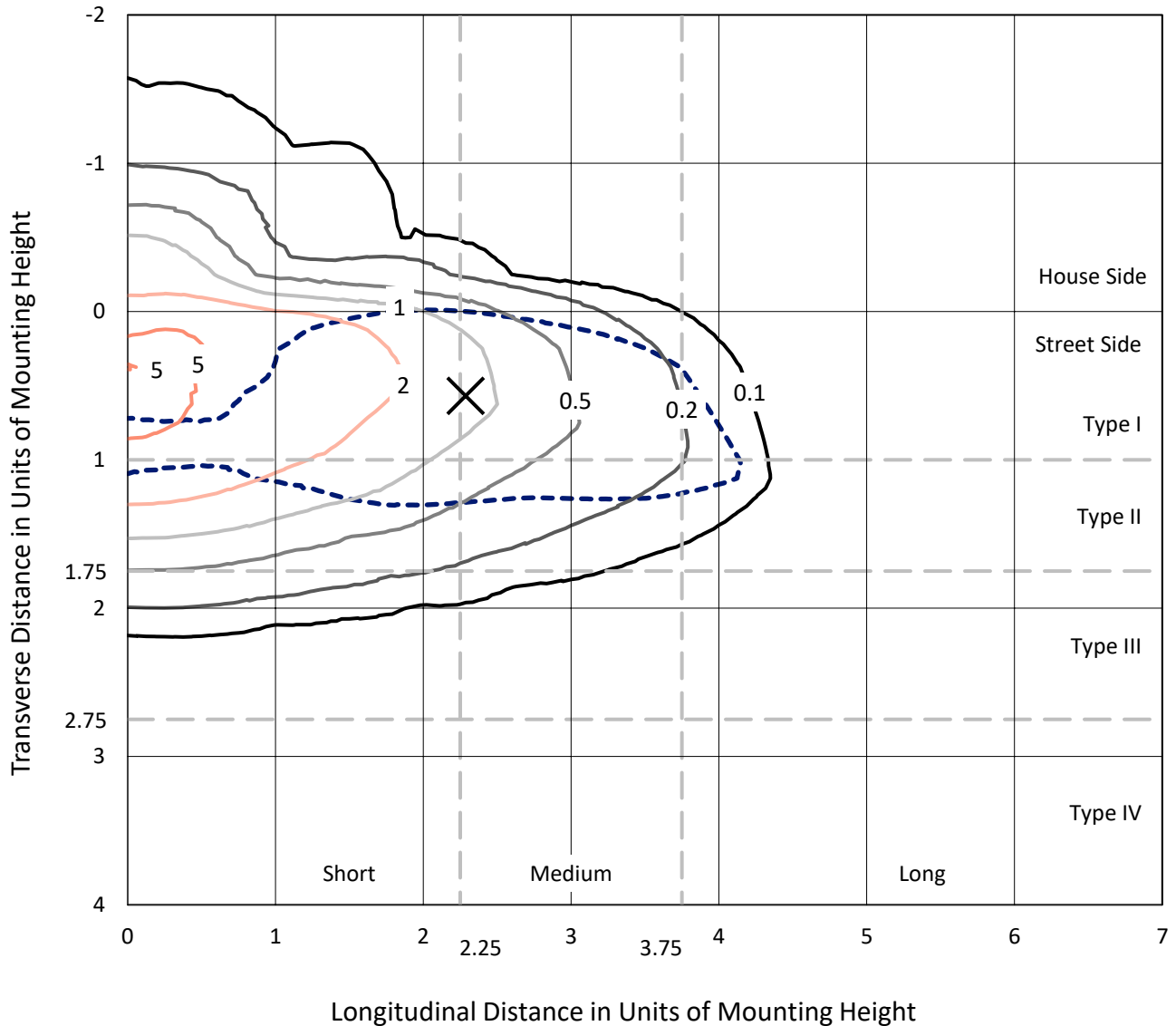
Lumens per Lamp: N/A  
Luminaire Lumens: 15531.1 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6  
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

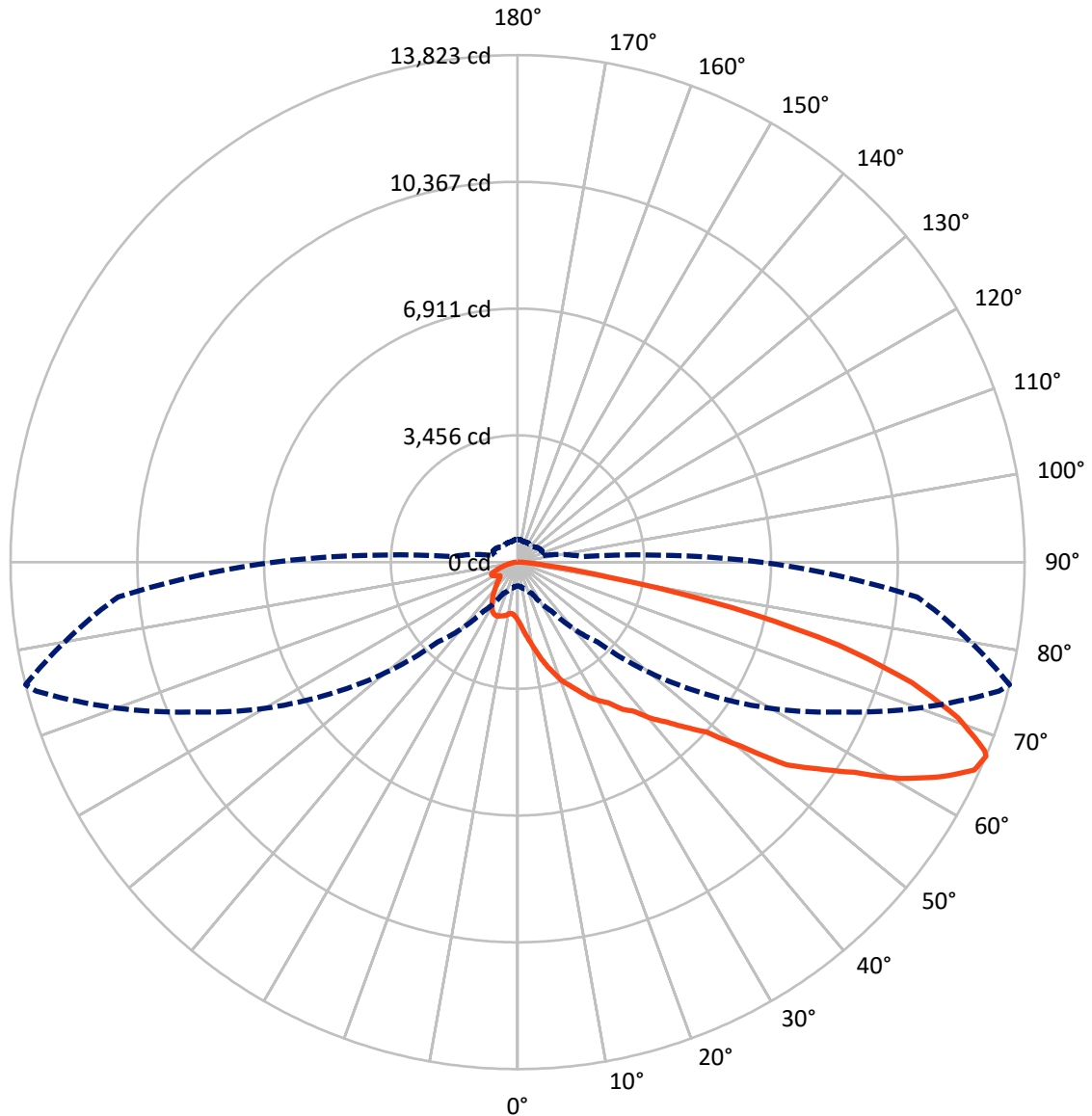
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2209.5	0.0	2209.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	13321.6	0.0	13321.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	15531.1	0.0	15531.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.1	1.2
10°-20°	690.5	4.4
20°-30°	1283.7	8.3
30°-40°	2035.0	13.1
40°-50°	2814.6	18.1
50°-60°	3462.1	22.3
60°-70°	3221.6	20.7
70°-80°	1616.6	10.4
80°-90°	222.9	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°	15531.1	100.0
0°-180°	15531.1	100.0

**Coefficient of Utilization**



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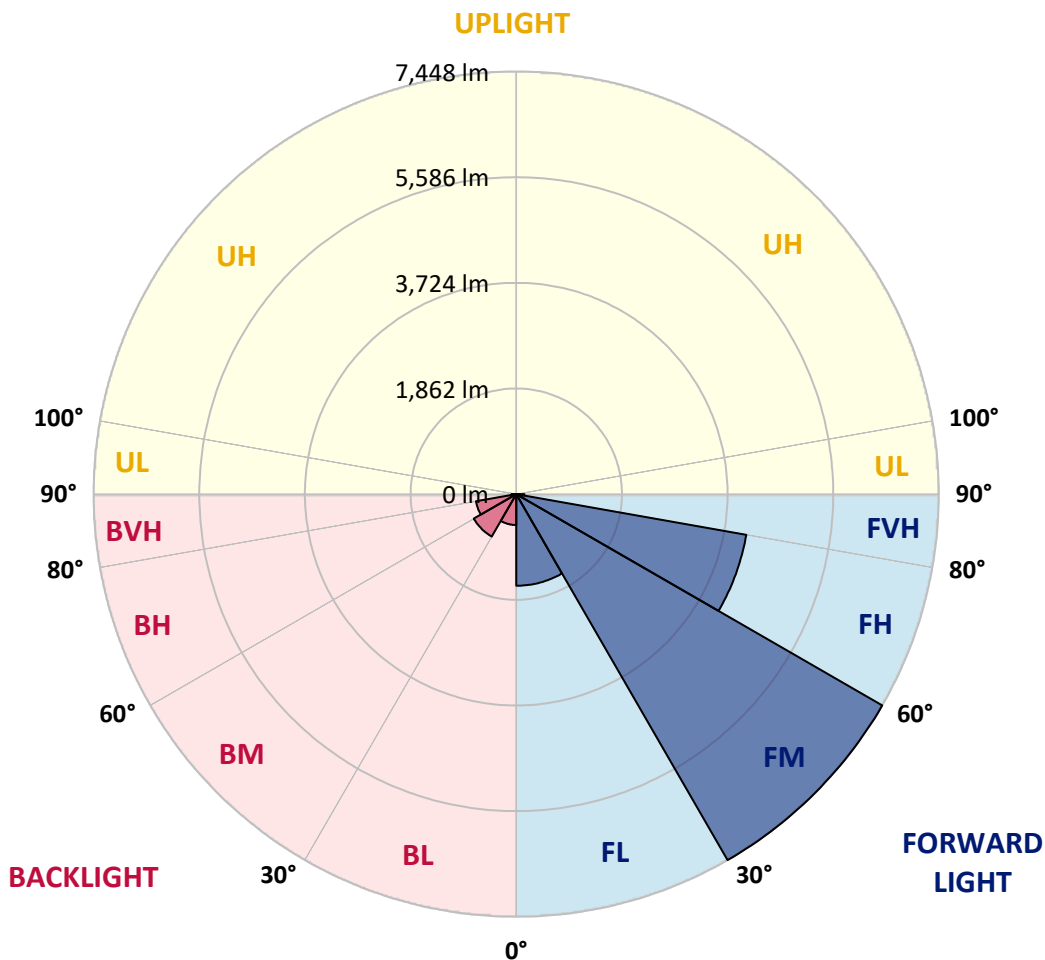
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1614.2	10.4			
FM (30°-60°)	7448.2	48.0			
FH (60°-80°)	4117.2	26.5			G2/5000
FVH (80°-90°)	142.0	0.9			G2/225
BL (0°-30°)	544.1	3.5	B2/1000		
BM (30°-60°)	863.4	5.6	B1/1000		
BH (60°-80°)	721.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	80.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4
2.5°	2205.3	2178.7	2152.2	2095.6	2076.1	2023.0	1925.6	1817.7	1729.2	1716.8	1654.9
5°	2736.3	2697.3	2688.5	2656.6	2555.7	2453.1	2293.8	2120.3	1904.4	1920.3	1707.9
7.5°	3134.5	3111.5	3063.7	3033.6	2973.4	2837.1	2672.5	2442.5	2168.1	2115.0	1826.5
10°	3435.4	3403.5	3401.7	3375.2	3343.3	3203.5	3077.8	2768.1	2415.9	2343.3	1971.7
12.5°	3587.6	3582.3	3676.1	3676.1	3663.7	3605.3	3389.4	3106.2	2651.3	2626.5	2139.8
15°	3752.2	3707.9	3789.3	3851.3	3883.2	3913.2	3734.5	3435.4	2952.2	2904.4	2320.3
17.5°	3752.2	3748.6	3830.1	3932.7	4099.1	4138.0	4040.7	3738.0	3201.7	3166.3	2518.6
20°	3688.5	3739.8	3796.4	3934.5	4115.0	4272.5	4300.8	4047.8	3477.8	3449.5	2743.3
22.5°	3985.8	3936.2	3994.7	4047.8	4187.6	4426.5	4504.4	4320.3	3768.1	3660.1	2946.9
25°	4484.9	4451.3	4408.8	4330.9	4389.3	4493.8	4612.3	4522.1	4015.9	3895.5	3143.3
27.5°	4971.6	4973.4	4881.4	4711.5	4585.8	4607.0	4746.9	4699.1	4224.7	4171.6	3277.8
30°	5663.7	5621.2	5518.5	5288.4	5042.4	4840.7	4817.7	4863.7	4490.2	4387.6	3470.8
32.5°	6182.2	6191.1	6046.0	5715.0	5378.7	5214.1	5012.3	5031.8	4658.4	4582.3	3624.7
35°	6601.7	6591.1	6488.4	6214.1	5815.9	5617.6	5345.1	5233.6	5049.5	4929.2	3860.1
37.5°	7054.8	6968.1	6801.7	6492.0	6237.1	5962.8	5697.3	5446.0	5309.7	5164.6	4061.9
40°	7237.1	7237.1	7014.1	6872.5	6569.9	6362.8	6191.1	5725.6	5626.5	5598.2	4320.3
42.5°	7107.9	7187.5	7095.5	6934.5	6810.6	6548.6	6502.6	6015.9	6017.6	5961.0	4630.0
45°	7095.5	6985.8	6909.7	6950.4	6892.0	6877.8	6994.6	6417.6	6428.3	6421.2	5046.0
47.5°	6739.8	6690.2	6803.5	6870.7	6918.5	7138.0	7474.3	6897.3	6973.4	6920.3	5525.6
50°	6385.8	6376.9	6447.7	6692.0	6899.1	7260.1	7930.9	7637.1	7886.7	7883.1	6394.6
52.5°	5415.9	5509.7	5787.6	6304.4	6815.9	7426.5	8276.0	8582.2	9058.3	9187.5	7115.0
55°	4488.5	4438.9	4849.5	5600.0	6453.0	7492.0	8661.9	9150.4	9851.2	9945.0	7854.8
57.5°	3492.0	3584.0	3907.9	4628.3	5702.6	7168.1	8945.1	9711.4	10746.8	10819.4	8713.2
60°	2605.3	2617.7	2973.4	3554.0	4704.4	6437.1	9037.1	10286.6	11773.3	11980.4	9612.3
62.5°	1638.9	1713.3	1984.1	2555.7	3541.6	5414.1	8624.7	10635.3	12849.4	12904.3	10518.5
65°	883.2	931.0	1134.5	1493.8	2474.3	4095.5	7530.9	10426.5	13355.6	13681.3	10922.0
67°	653.1	661.9	755.7	954.0	1654.9	3083.2	6279.6	9670.7	13585.7	13822.9	10938.0
67.5°	612.4	624.8	699.1	856.6	1467.2	2838.9	5952.2	9401.7	13483.1	13737.9	10814.1
70°	523.9	527.4	545.1	589.4	823.0	1707.9	4053.1	7704.4	12497.2	12741.5	9945.0
72.5°	465.5	469.0	476.1	485.0	557.5	987.6	2465.5	5929.2	10861.9	11251.2	8580.5
75°	408.8	421.2	424.8	417.7	474.3	642.5	1311.5	4357.5	8860.1	9049.5	6672.5
77.5°	346.9	352.2	359.3	366.4	423.0	479.6	630.1	2941.6	6081.4	5966.3	3608.8
80°	292.0	293.8	299.1	304.4	366.4	366.4	357.5	1589.4	2656.6	2539.8	1219.5
82.5°	208.8	221.2	233.6	247.8	304.4	246.0	233.6	708.0	840.7	800.0	412.4
85°	81.4	99.1	154.0	169.9	192.9	132.7	155.8	306.2	350.4	346.9	154.0
87.5°	14.2	15.9	42.5	65.5	70.8	46.0	74.3	109.7	131.0	141.6	56.6
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°	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4
2.5°	1603.5	1548.7	1483.2	1417.7	1375.2	1308.0	1302.6	1261.9	1256.6	1242.5	1249.5
5°	1615.9	1550.4	1417.7	1313.3	1265.5	1226.5	1235.4	1217.7	1212.4	1203.5	1189.4
7.5°	1713.3	1584.1	1385.8	1295.6	1260.2	1242.5	1242.5	1221.2	1205.3	1215.9	1226.5
10°	1777.0	1600.0	1410.6	1320.3	1292.0	1253.1	1267.2	1240.7	1249.5	1228.3	1228.3
12.5°	1879.6	1690.3	1461.9	1357.5	1311.5	1276.1	1290.3	1260.2	1253.1	1254.9	1249.5
15°	2017.7	1750.4	1484.9	1378.7	1346.9	1302.6	1292.0	1265.5	1238.9	1230.1	1240.7
17.5°	2146.9	1824.8	1500.9	1391.1	1339.8	1290.3	1277.9	1244.2	1235.4	1208.8	1187.6
20°	2300.9	1913.3	1522.1	1401.8	1313.3	1263.7	1231.8	1198.2	1168.1	1152.2	1159.3
22.5°	2403.5	1959.3	1532.7	1380.5	1274.3	1228.3	1161.1	1138.0	1095.6	1077.9	1063.7
25°	2571.7	2015.9	1506.2	1322.1	1205.3	1131.0	1070.8	1038.9	1008.8	985.8	978.8
27.5°	2614.1	2058.4	1444.2	1223.0	1095.6	1017.7	966.4	927.4	908.0	872.6	865.5
30°	2738.0	2015.9	1352.2	1102.6	991.1	911.5	860.2	831.9	785.8	777.0	757.5
32.5°	2817.7	2028.3	1235.4	985.8	870.8	800.0	766.4	738.0	725.7	683.2	672.6
35°	2950.4	1985.8	1116.8	877.9	771.7	716.8	688.5	679.6	638.9	619.5	601.8
37.5°	3035.4	1961.0	998.2	755.7	663.7	640.7	649.6	612.4	562.8	525.7	513.3
40°	3184.0	1952.2	863.7	654.9	589.4	584.1	612.4	541.6	451.3	419.5	401.8
42.5°	3398.2	1892.0	759.3	564.6	531.0	554.0	559.3	451.3	400.0	373.4	361.1
45°	3603.5	1904.4	656.6	467.3	461.9	495.6	483.2	382.3	352.2	332.7	343.4
47.5°	3998.2	1966.4	555.7	389.4	415.9	447.8	375.2	341.6	313.3	299.1	300.9
50°	4608.8	2026.5	467.3	355.7	392.9	405.3	322.1	309.7	308.0	279.6	277.9
52.5°	4975.2	2003.5	451.3	398.2	421.2	405.3	350.4	341.6	327.4	315.0	300.9
55°	5557.5	2070.8	485.0	465.5	477.9	389.4	392.9	389.4	378.8	346.9	355.7
57.5°	6021.2	2115.0	529.2	520.3	513.3	405.3	410.6	412.4	405.3	391.1	403.5
60°	6658.3	2203.5	575.2	577.0	578.8	440.7	449.6	460.2	458.4	453.1	456.6
62.5°	7049.5	2162.8	626.5	654.9	646.0	513.3	511.5	518.6	518.6	527.4	532.7
65°	6991.1	2012.4	653.1	723.9	677.9	566.4	566.4	569.9	571.7	589.4	591.1
67°	6640.6	1743.3	638.9	734.5	677.9	587.6	587.6	591.1	578.8	624.8	610.6
67.5°	6477.8	1663.7	626.5	725.7	672.6	585.8	585.8	587.6	577.0	621.2	607.1
70°	5633.6	1235.4	539.8	642.5	623.0	569.9	569.9	559.3	550.4	608.8	596.5
72.5°	4808.8	897.3	433.6	546.9	562.8	548.7	552.2	525.7	500.9	541.6	531.0
75°	3683.2	660.2	338.1	421.2	476.1	513.3	536.3	469.0	437.2	447.8	428.3
77.5°	2054.8	430.1	267.3	311.5	362.8	477.9	515.0	423.0	357.5	345.1	345.1
80°	697.3	251.3	196.5	231.9	249.6	423.0	481.4	343.4	281.4	269.0	260.2
82.5°	263.7	154.0	134.5	159.3	159.3	334.5	392.9	263.7	212.4	274.3	279.6
85°	120.4	92.0	88.5	92.0	92.0	205.3	277.9	171.7	191.1	164.6	145.1
87.5°	47.8	44.2	40.7	38.9	31.9	35.4	95.6	46.0	86.7	23.0	21.2
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)