

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: P476929

Luminaire Tested: **IFLD-M-SA4B-730-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476929  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-730-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

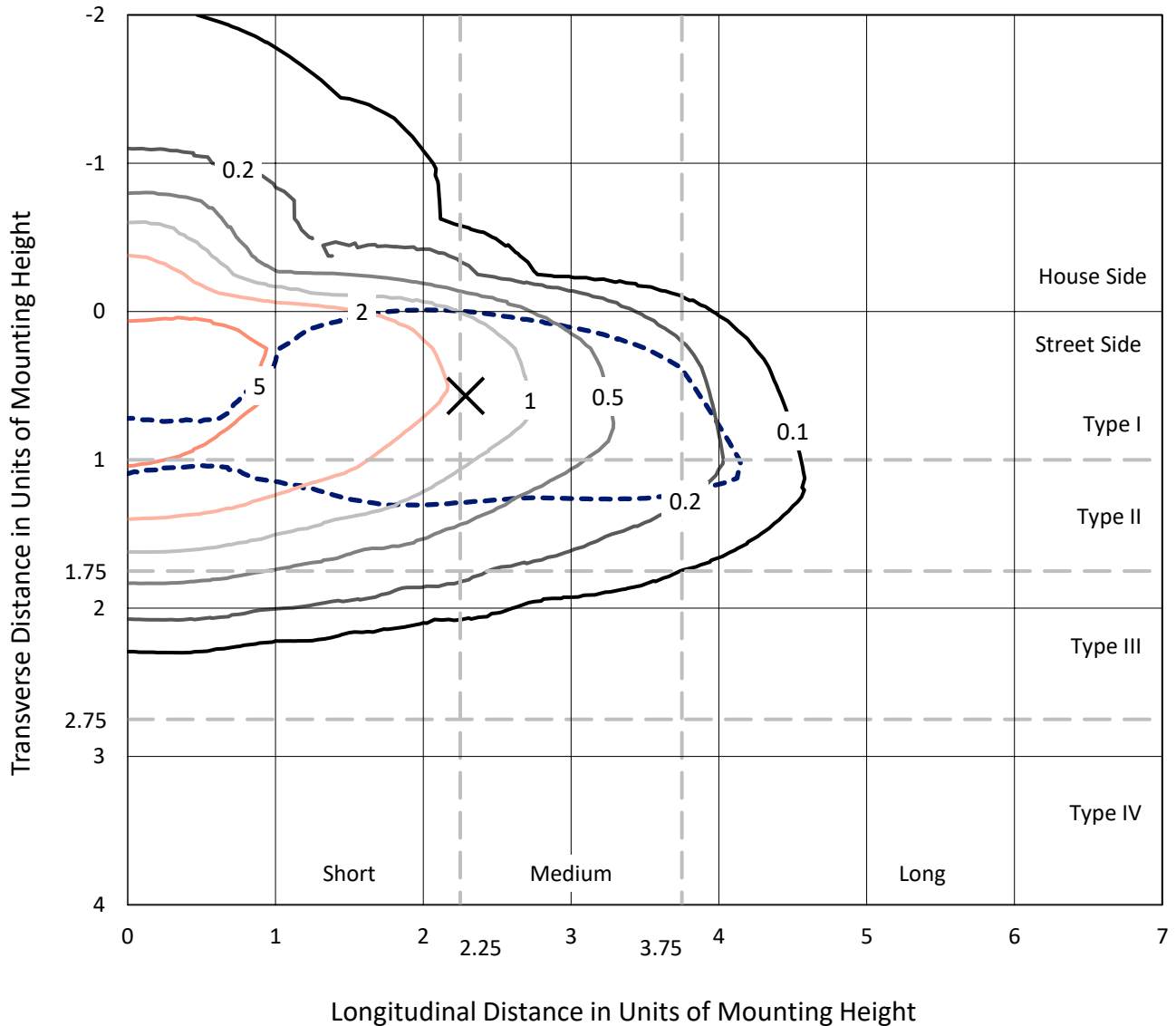
Lumens per Lamp: N/A  
Luminaire Lumens: 20914.5 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1  
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

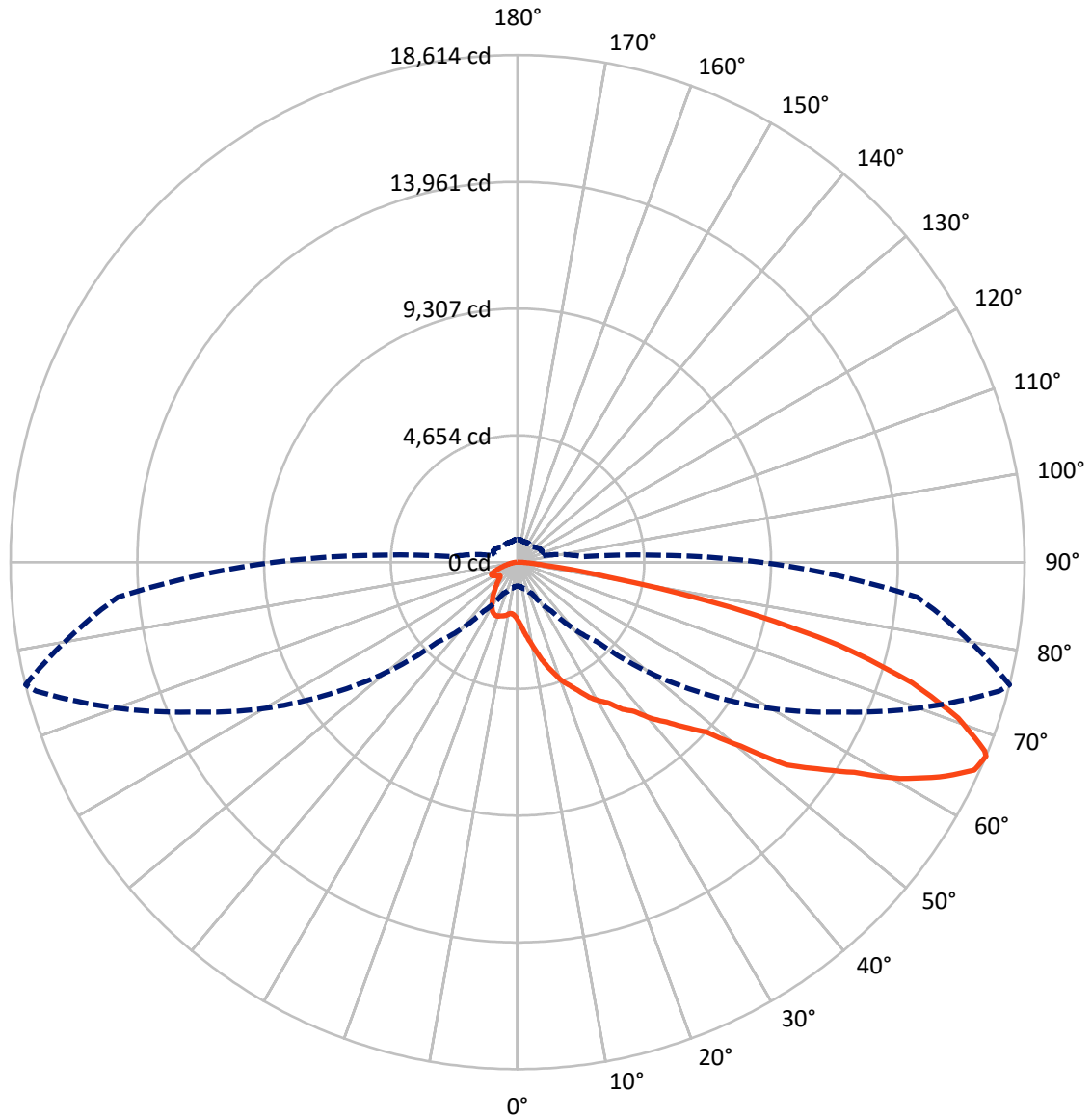
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	2975.3	0.0	2975.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	17939.1	0.0	17939.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	20914.5	0.0	20914.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.9	1.2
10°-20°	929.8	4.4
20°-30°	1728.7	8.3
30°-40°	2740.4	13.1
40°-50°	3790.1	18.1
50°-60°	4662.1	22.3
60°-70°	4338.3	20.7
70°-80°	2176.9	10.4
80°-90°	300.2	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°	20914.5	100.0
0°-180°	20914.5	100.0

**Coefficient of Utilization**



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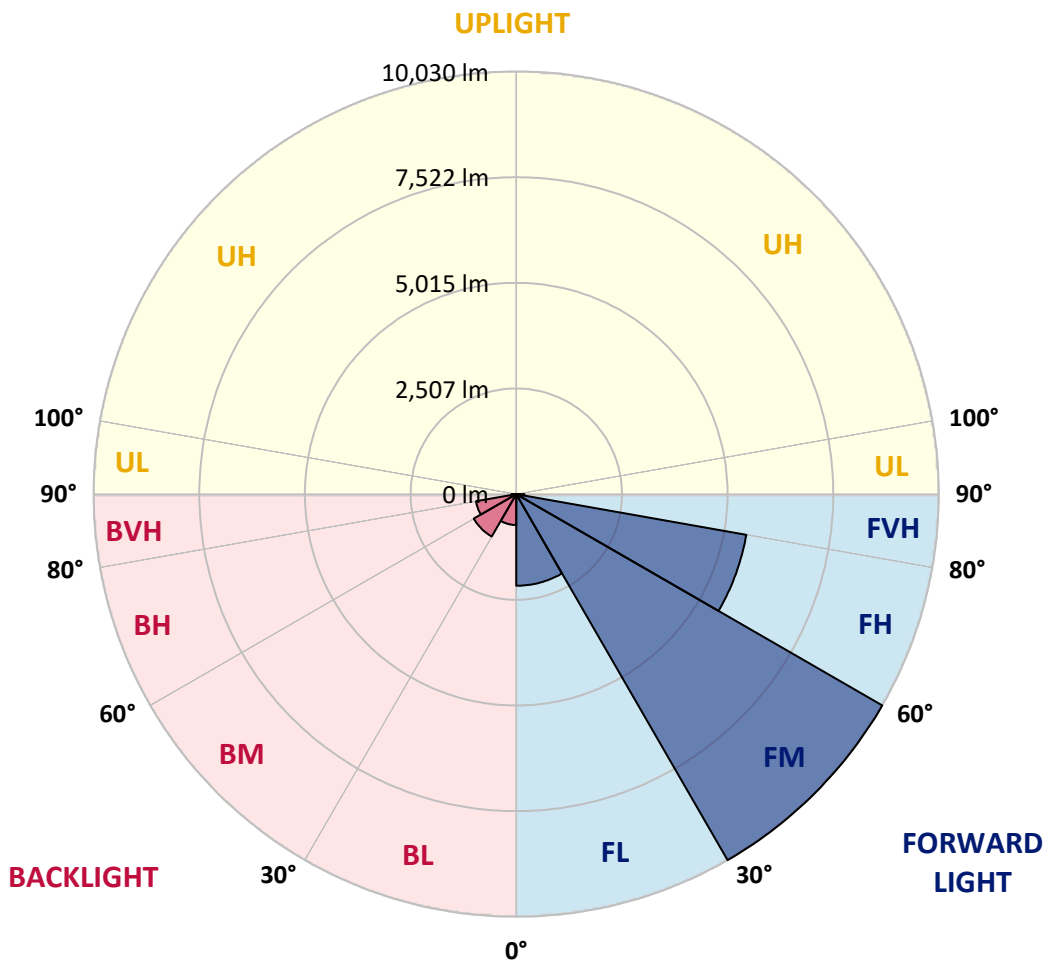
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2173.7	10.4			
FM (30°-60°)	10029.9	48.0			
FH (60°-80°)	5544.3	26.5			G3/7500
FVH (80°-90°)	191.2	0.9			G2/225
BL (0°-30°)	732.7	3.5	B2/1000		
BM (30°-60°)	1162.7	5.6	B2/2500		
BH (60°-80°)	971.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	108.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3
2.5°	2969.7	2933.9	2898.2	2821.9	2795.7	2724.2	2593.1	2447.7	2328.6	2311.9	2228.5
5°	3684.7	3632.3	3620.4	3577.5	3441.6	3303.4	3088.9	2855.3	2564.5	2586.0	2300.0
7.5°	4221.0	4190.0	4125.6	4085.1	4004.1	3820.6	3598.9	3289.1	2919.6	2848.1	2459.7
10°	4626.1	4583.2	4580.9	4545.1	4502.2	4313.9	4144.7	3727.6	3253.3	3155.6	2655.1
12.5°	4831.1	4824.0	4950.3	4950.3	4933.6	4855.0	4564.2	4182.8	3570.3	3536.9	2881.5
15°	5052.8	4993.2	5102.8	5186.2	5229.1	5269.7	5028.9	4626.1	3975.5	3911.1	3124.6
17.5°	5052.8	5048.0	5157.6	5295.9	5519.9	5572.3	5441.3	5033.7	4311.5	4263.9	3391.6
20°	4967.0	5036.1	5112.4	5298.3	5541.4	5753.5	5791.6	5450.8	4683.3	4645.2	3694.2
22.5°	5367.4	5300.6	5379.3	5450.8	5639.1	5960.8	6065.7	5817.8	5074.2	4928.8	3968.3
25°	6039.5	5994.2	5937.0	5832.1	5910.8	6051.4	6211.1	6089.5	5407.9	5245.8	4232.9
27.5°	6694.9	6697.3	6573.4	6344.6	6175.3	6203.9	6392.2	6327.9	5689.1	5617.6	4414.0
30°	7626.8	7569.6	7431.4	7121.5	6790.3	6518.6	6487.6	6549.5	6046.6	5908.4	4673.8
32.5°	8325.2	8337.1	8141.6	7695.9	7243.1	7021.4	6749.7	6776.0	6273.1	6170.6	4881.2
35°	8890.0	8875.7	8737.5	8368.1	7831.8	7564.9	7197.8	7047.7	6799.8	6637.7	5198.2
37.5°	9500.2	9383.4	9159.3	8742.2	8399.0	8029.6	7672.1	7333.7	7150.1	6954.7	5469.9
40°	9745.7	9745.7	9445.3	9254.7	8847.1	8568.3	8337.1	7710.2	7576.8	7538.6	5817.8
42.5°	9571.7	9678.9	9555.0	9338.1	9171.3	8818.5	8756.5	8101.1	8103.5	8027.2	6234.9
45°	9555.0	9407.2	9304.7	9359.5	9280.9	9261.8	9419.1	8642.1	8656.4	8646.9	6795.0
47.5°	9075.9	9009.2	9161.7	9252.3	9316.6	9612.2	10065.0	9288.0	9390.5	9319.0	7440.9
50°	8599.2	8587.3	8682.7	9011.6	9290.4	9776.6	10679.9	10284.3	10620.4	10615.6	8611.2
52.5°	7293.2	7419.5	7793.7	8489.6	9178.4	10000.7	11144.7	11557.0	12198.2	12372.1	9581.2
55°	6044.3	5977.5	6530.5	7541.0	8689.8	10088.9	11664.3	12322.1	13265.9	13392.2	10577.5
57.5°	4702.4	4826.4	5262.5	6232.5	7679.3	9652.7	12045.6	13077.6	14471.9	14569.6	11733.4
60°	3508.3	3525.0	4004.1	4785.8	6335.0	8668.4	12169.6	13852.2	15854.3	16133.1	12944.2
62.5°	2207.0	2307.1	2671.8	3441.6	4769.1	7290.8	11614.2	14321.7	17303.4	17377.2	14164.4
65°	1189.3	1253.7	1527.7	2011.6	3332.0	5515.1	10141.3	14040.5	17985.0	18423.5	14707.9
67°	879.5	891.4	1017.7	1284.6	2228.5	4151.9	8456.2	13022.8	18294.8	18614.2	14729.3
67.5°	824.7	841.3	941.4	1153.6	1975.8	3822.9	8015.3	12660.5	18156.6	18499.8	14562.5
70°	705.5	710.2	734.1	793.7	1108.3	2300.0	5457.9	10374.9	16829.1	17158.0	13392.2
72.5°	626.8	631.6	641.1	653.0	750.8	1329.9	3320.1	7984.3	14626.8	15151.2	11554.6
75°	550.6	567.2	572.0	562.5	638.7	865.2	1766.1	5867.9	11931.2	12186.2	8985.4
77.5°	467.1	474.3	483.8	493.4	569.6	645.9	848.5	3961.2	8189.3	8034.4	4859.7
80°	393.3	395.6	402.8	409.9	493.4	493.4	481.4	2140.3	3577.5	3420.2	1642.2
82.5°	281.2	297.9	314.6	333.7	409.9	331.3	314.6	953.4	1132.1	1077.3	555.3
85°	109.6	133.5	207.4	228.8	259.8	178.8	209.7	412.3	471.9	467.1	207.4
87.5°	19.1	21.5	57.2	88.2	95.3	62.0	100.1	147.8	176.4	190.7	76.3
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°	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3	2140.3
2.5°	2159.3	2085.5	1997.3	1909.1	1851.9	1761.3	1754.2	1699.4	1692.2	1673.1	1682.7
5°	2176.0	2087.8	1909.1	1768.5	1704.1	1651.7	1663.6	1639.8	1632.6	1620.7	1601.6
7.5°	2307.1	2133.1	1866.2	1744.6	1697.0	1673.1	1673.1	1644.5	1623.1	1637.4	1651.7
10°	2392.9	2154.6	1899.6	1778.0	1739.9	1687.4	1706.5	1670.8	1682.7	1654.1	1654.1
12.5°	2531.2	2276.1	1968.7	1828.1	1766.1	1718.4	1737.5	1697.0	1687.4	1689.8	1682.7
15°	2717.1	2357.2	1999.7	1856.7	1813.8	1754.2	1739.9	1704.1	1668.4	1656.5	1670.8
17.5°	2891.0	2457.3	2021.1	1873.3	1804.2	1737.5	1720.8	1675.5	1663.6	1627.9	1599.2
20°	3098.4	2576.4	2049.7	1887.6	1768.5	1701.7	1658.8	1613.6	1573.0	1551.6	1561.1
22.5°	3236.6	2638.4	2064.0	1859.0	1716.0	1654.1	1563.5	1532.5	1475.3	1451.5	1432.4
25°	3463.1	2714.7	2028.3	1780.4	1623.1	1523.0	1441.9	1399.0	1358.5	1327.5	1318.0
27.5°	3520.3	2771.9	1944.8	1646.9	1475.3	1370.4	1301.3	1248.9	1222.7	1175.0	1165.5
30°	3687.1	2714.7	1820.9	1484.8	1334.7	1227.4	1158.3	1120.2	1058.2	1046.3	1020.1
32.5°	3794.3	2731.4	1663.6	1327.5	1172.6	1077.3	1032.0	993.9	977.2	920.0	905.7
35°	3973.1	2674.2	1503.9	1182.2	1039.2	965.3	927.1	915.2	860.4	834.2	810.4
37.5°	4087.5	2640.8	1344.2	1017.7	893.8	862.8	874.7	824.7	757.9	707.9	691.2
40°	4287.7	2628.9	1163.1	881.9	793.7	786.5	824.7	729.3	607.8	564.9	541.0
42.5°	4576.1	2547.8	1022.5	760.3	715.0	746.0	753.1	607.8	538.6	502.9	486.2
45°	4852.6	2564.5	884.2	629.2	622.1	667.3	650.7	514.8	474.3	448.1	462.4
47.5°	5384.1	2647.9	748.4	524.3	560.1	603.0	505.3	460.0	421.9	402.8	405.2
50°	6206.3	2729.0	629.2	479.1	529.1	545.8	433.8	417.1	414.7	376.6	374.2
52.5°	6699.7	2698.0	607.8	536.3	567.2	545.8	471.9	460.0	440.9	424.2	405.2
55°	7483.8	2788.6	653.0	626.8	643.5	524.3	529.1	524.3	510.0	467.1	479.1
57.5°	8108.3	2848.1	712.6	700.7	691.2	545.8	552.9	555.3	545.8	526.7	543.4
60°	8966.3	2967.3	774.6	777.0	779.4	593.5	605.4	619.7	617.3	610.1	614.9
62.5°	9493.0	2912.5	843.7	881.9	869.9	691.2	688.8	698.3	698.3	710.2	717.4
65°	9414.4	2709.9	879.5	974.8	912.8	762.7	762.7	767.4	769.8	793.7	796.0
67°	8942.5	2347.6	860.4	989.1	912.8	791.3	791.3	796.0	779.4	841.3	822.3
67.5°	8723.2	2240.4	843.7	977.2	905.7	788.9	788.9	791.3	777.0	836.6	817.5
70°	7586.3	1663.6	726.9	865.2	839.0	767.4	767.4	753.1	741.2	819.9	803.2
72.5°	6475.7	1208.4	583.9	736.5	757.9	738.8	743.6	707.9	674.5	729.3	715.0
75°	4959.8	889.0	455.2	567.2	641.1	691.2	722.2	631.6	588.7	603.0	576.8
77.5°	2767.1	579.2	359.9	419.5	488.6	643.5	693.6	569.6	481.4	464.8	464.8
80°	939.1	338.4	264.6	312.2	336.1	569.6	648.3	462.4	379.0	362.3	350.4
82.5°	355.1	207.4	181.1	214.5	214.5	450.5	529.1	355.1	286.0	369.4	376.6
85°	162.1	123.9	119.2	123.9	123.9	276.5	374.2	231.2	257.4	221.7	195.4
87.5°	64.4	59.6	54.8	52.4	42.9	47.7	128.7	62.0	116.8	31.0	28.6
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)