

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: P476756

Luminaire Tested: **IFLD-S-SA3E-830-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476756  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-830-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

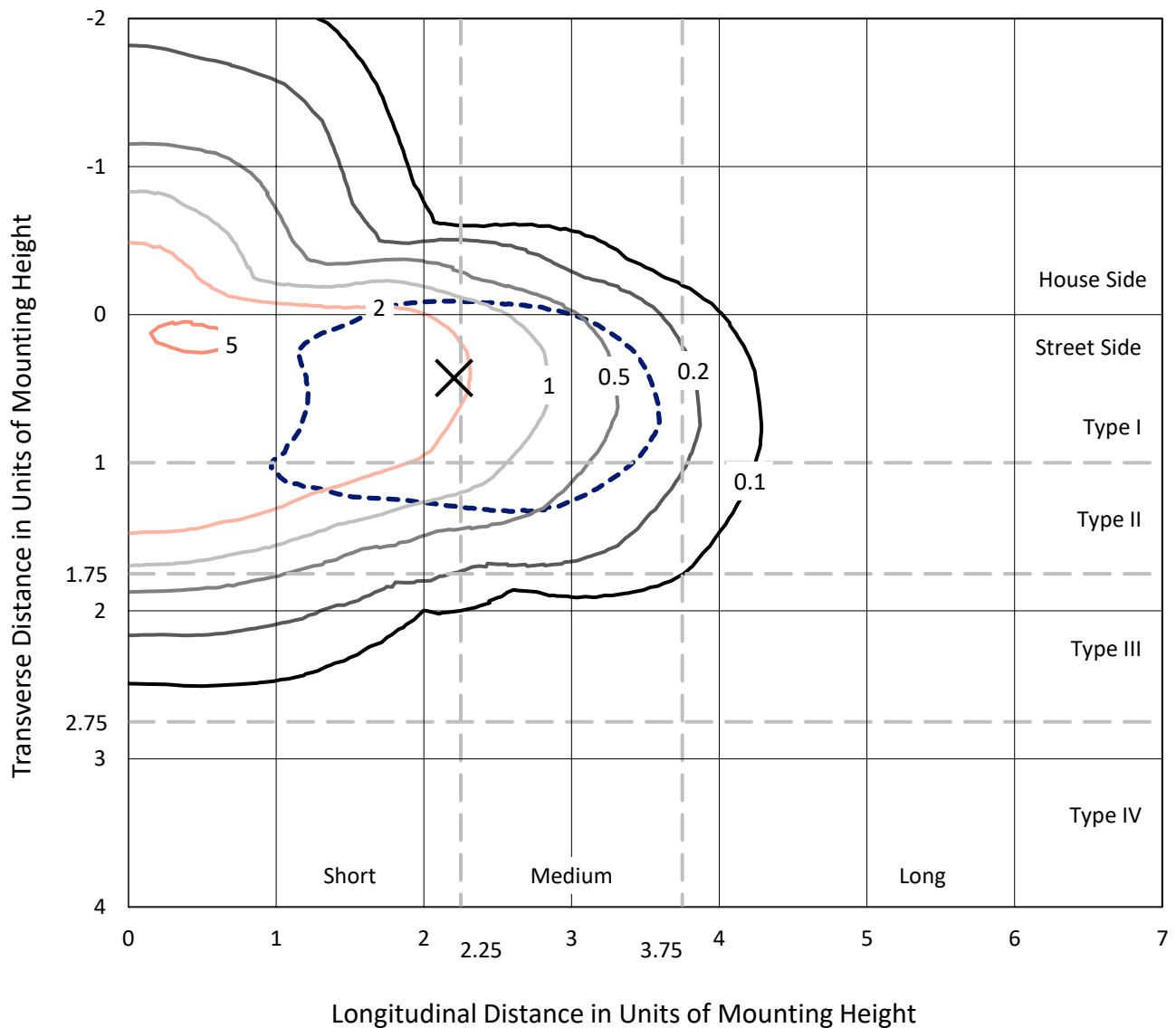
Lumens per Lamp: N/A  
Luminaire Lumens: 21407.2 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 232.1  
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

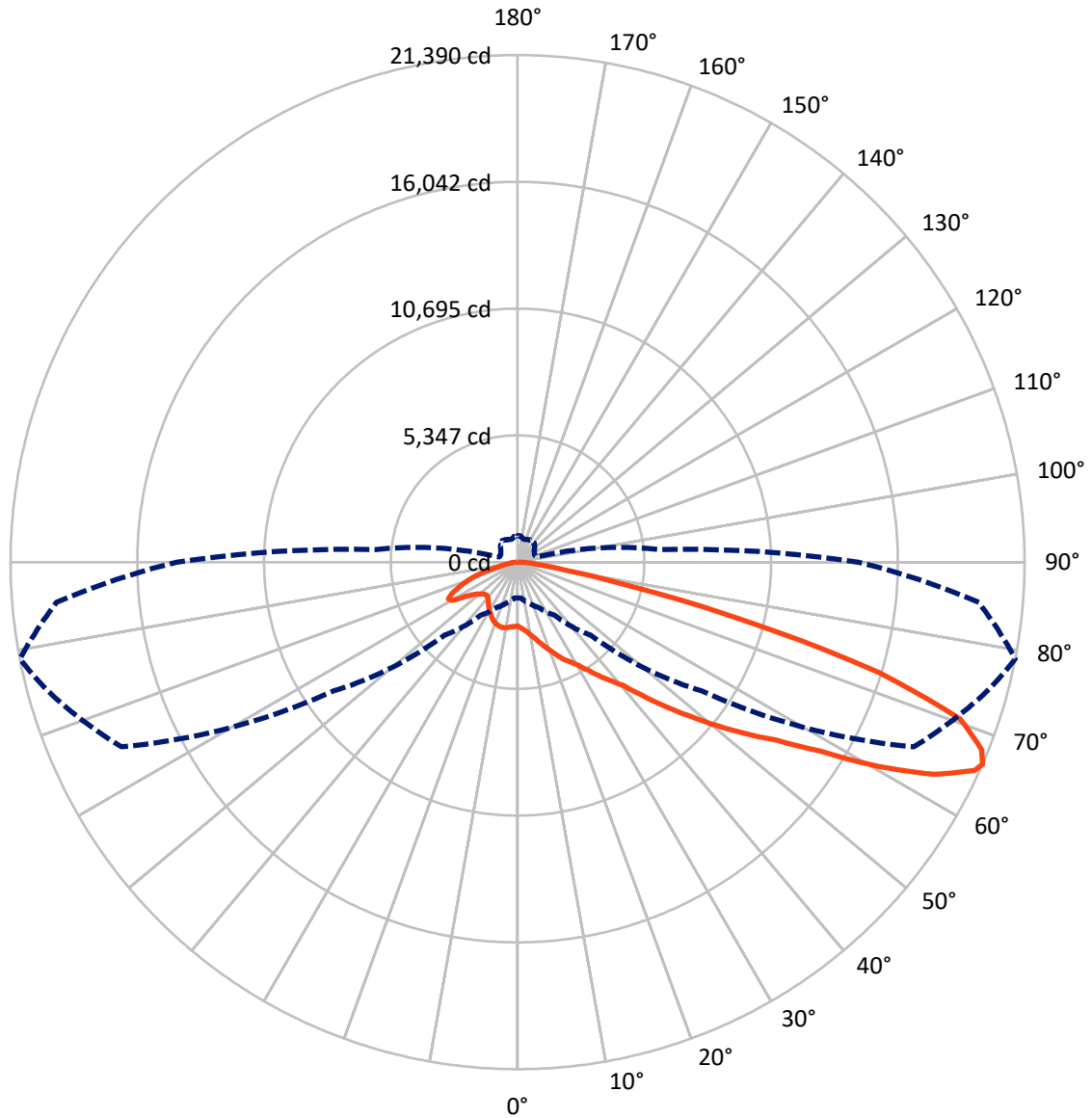
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4322.9	0.0	4322.9
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	17084.3	0.0	17084.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	21407.2	0.0	21407.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.8	1.2
10°-20°	820.8	3.8
20°-30°	1408.9	6.6
30°-40°	2176.4	10.2
40°-50°	3486.1	16.3
50°-60°	5205.0	24.3
60°-70°	5348.1	25.0
70°-80°	2370.8	11.1
80°-90°	325.3	1.5
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°	21407.2	100.0
0°-180°	21407.2	100.0

**Coefficient of Utilization**



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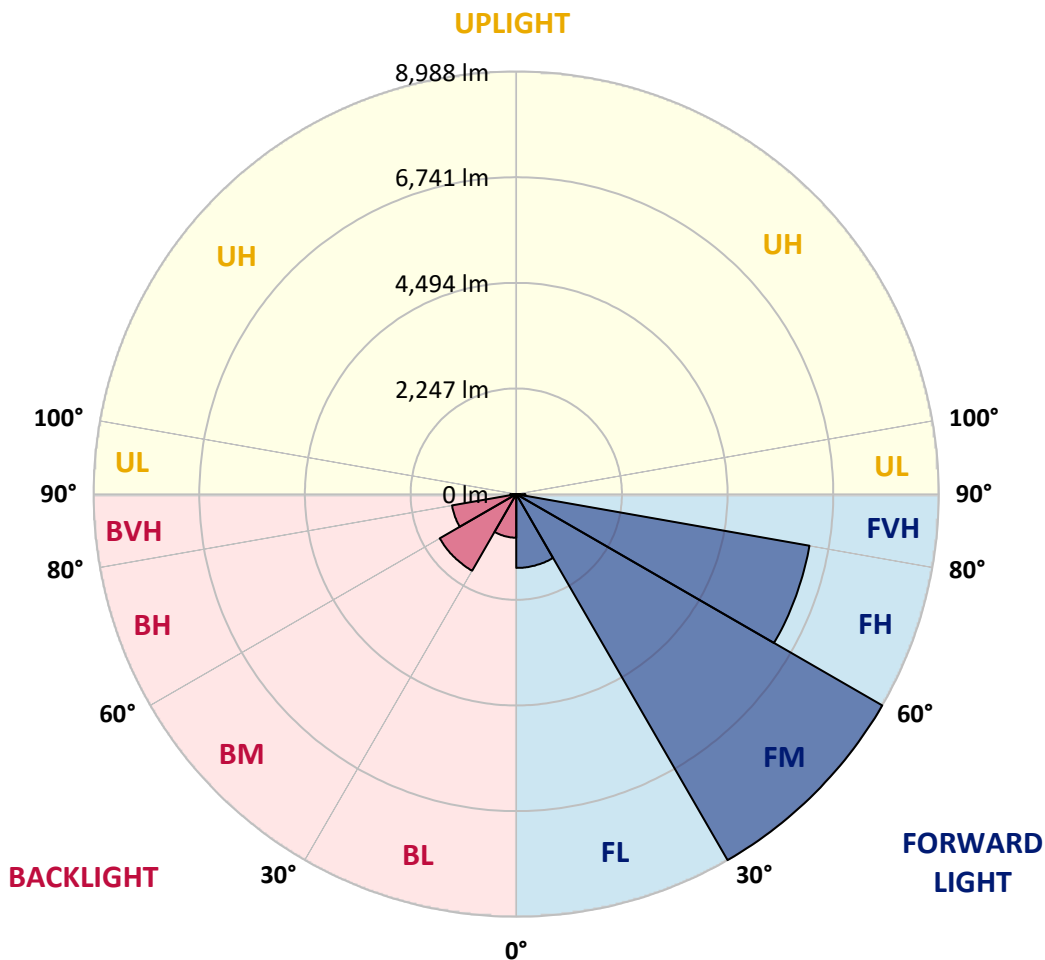
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.3	7.3			
FM (30°-60°)	8988.1	42.0			
FH (60°-80°)	6331.8	29.6			G3/7500
FVH (80°-90°)	195.1	0.9			G2/225
BL (0°-30°)	926.2	4.3	B2/1000		
BM (30°-60°)	1879.4	8.8	B2/2500		
BH (60°-80°)	1387.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	130.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1
2.5°	2875.0	2877.4	2877.4	2868.0	2870.3	2877.4	2851.5	2795.0	2795.0	2785.5	2769.1
5°	3051.6	3039.8	3023.4	3025.7	3016.3	3016.3	2988.0	2933.9	2886.8	2868.0	2818.5
7.5°	3075.2	3086.9	3084.6	3112.8	3127.0	3127.0	3141.1	3096.4	3025.7	2981.0	2931.5
10°	3122.3	3091.6	3089.3	3155.2	3176.4	3225.9	3282.4	3258.8	3200.0	3136.4	3070.5
12.5°	3150.5	3169.3	3169.3	3202.3	3251.8	3324.8	3423.7	3468.4	3376.6	3310.6	3209.4
15°	3192.9	3167.0	3242.3	3270.6	3364.8	3416.6	3557.9	3673.2	3612.0	3532.0	3371.8
17.5°	3211.7	3195.3	3237.6	3289.4	3449.6	3527.3	3699.1	3859.3	3807.5	3755.7	3590.8
20°	3308.3	3305.9	3324.8	3367.1	3482.5	3635.6	3849.8	4071.2	4090.0	3995.8	3772.1
22.5°	3543.7	3513.1	3513.1	3496.6	3546.1	3703.9	3993.5	4299.6	4384.3	4273.7	3977.0
25°	3760.4	3802.7	3776.8	3701.5	3682.7	3765.1	4097.1	4542.1	4655.1	4551.5	4254.8
27.5°	4038.2	4052.3	4097.1	3995.8	3866.3	3892.2	4210.1	4678.7	4911.8	4772.9	4412.6
30°	4438.5	4412.6	4403.2	4290.2	4120.6	4085.3	4339.6	4878.8	5248.5	5053.1	4598.6
32.5°	4709.3	4772.9	4770.5	4615.1	4410.2	4332.5	4499.7	5067.2	5608.8	5427.5	4942.4
35°	5246.1	5312.1	5260.3	5031.9	4791.7	4636.3	4730.5	5312.1	6020.8	5879.5	5234.4
37.5°	5931.3	6086.8	5976.1	5554.6	5215.5	5046.0	5050.7	5578.1	6442.3	6326.9	5547.5
40°	6404.6	6614.2	6461.1	6065.6	5705.3	5545.2	5481.6	5893.7	6946.2	6823.8	6037.3
42.5°	6990.9	7165.2	7085.1	6694.2	6272.8	6136.2	6009.0	6421.1	7716.2	7659.7	6666.0
45°	7631.4	7713.8	7687.9	7440.7	6972.1	6925.0	6644.8	7115.7	8622.7	8646.2	7452.4
47.5°	8227.1	8271.9	8321.3	8142.4	7850.4	7890.4	7377.1	7859.8	9503.3	9658.7	8328.4
50°	8380.2	8533.2	8648.6	8768.7	8832.3	9103.0	8184.7	8773.4	10515.8	10817.2	9303.2
52.5°	8224.8	8213.0	8563.8	8940.6	9576.3	10143.8	9284.4	9908.3	11410.6	12006.3	10195.6
55°	7518.4	7494.8	8059.9	8559.1	9800.0	10723.0	10854.9	11420.0	12491.4	13266.1	11403.5
57.5°	6282.2	6136.2	6753.1	7572.5	9315.0	10786.6	12432.5	13664.0	14153.8	15036.7	13247.2
60°	4221.9	4160.7	4751.7	5728.8	7563.1	9884.8	13376.7	16473.1	16496.6	17490.3	16108.1
62.5°	2599.5	2611.3	2990.4	3722.7	5295.6	7836.3	12969.4	18717.1	18721.8	19717.8	18462.8
65°	1700.1	1707.1	2013.2	2418.2	3308.3	5314.4	10725.4	18893.7	20268.8	21194.1	19541.2
66°	1514.0	1516.4	1780.1	2109.8	2740.8	4349.0	9472.7	18434.5	20617.3	21389.6	19527.1
67.5°	1276.2	1306.8	1518.7	1773.0	2138.0	3124.6	7516.0	17106.5	20438.3	21116.4	19084.4
70°	998.4	1014.9	1182.0	1441.0	1603.5	1808.4	4466.8	13944.2	18707.6	19807.3	17473.8
72.5°	800.6	814.7	941.9	1170.3	1302.1	1191.4	2432.3	10117.9	14777.7	15950.3	13744.0
75°	675.8	678.1	739.4	920.7	1071.4	894.8	1295.1	6494.1	9482.1	10028.4	8420.2
77.5°	546.3	555.7	598.1	701.7	861.8	704.0	772.3	3637.9	4761.1	4801.1	3892.2
80°	445.0	449.7	475.6	511.0	656.9	520.4	522.7	1775.4	2041.5	1994.4	1582.3
82.5°	350.8	355.6	386.2	379.1	482.7	372.0	324.9	854.7	939.5	920.7	727.6
85°	197.8	197.8	303.7	303.7	306.1	235.5	197.8	402.6	496.8	463.9	341.4
87.5°	63.6	65.9	91.8	96.5	153.1	106.0	96.5	150.7	235.5	207.2	122.4
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°	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1
2.5°	2759.6	2722.0	2705.5	2651.3	2637.2	2601.9	2585.4	2564.2	2557.1	2526.5	2554.8
5°	2780.8	2769.1	2703.1	2634.8	2583.0	2559.5	2524.2	2477.1	2472.4	2430.0	2425.3
7.5°	2870.3	2830.3	2714.9	2641.9	2538.3	2479.4	2401.7	2378.2	2347.6	2333.5	2364.1
10°	3009.2	2908.0	2736.1	2552.4	2425.3	2354.6	2298.1	2281.6	2284.0	2274.6	2260.5
12.5°	3108.1	3011.6	2700.8	2477.1	2312.3	2244.0	2239.3	2255.7	2281.6	2269.9	2286.4
15°	3249.4	3068.1	2674.9	2352.3	2220.4	2201.6	2199.2	2248.7	2246.3	2246.3	2244.0
17.5°	3381.3	3124.6	2580.7	2244.0	2123.9	2138.0	2154.5	2152.1	2175.7	2185.1	2201.6
20°	3548.4	3190.5	2448.8	2135.7	2050.9	2046.2	2043.8	2046.2	2069.7	2083.9	2072.1
22.5°	3694.4	3204.7	2338.2	2032.1	1963.8	1944.9	1914.3	1944.9	1933.2	1937.9	1952.0
25°	3821.6	3207.0	2180.4	1954.4	1876.7	1834.3	1810.7	1808.4	1787.2	1784.8	1784.8
27.5°	3927.5	3127.0	2041.5	1846.0	1773.0	1733.0	1730.7	1704.8	1650.6	1615.3	1620.0
30°	4010.0	3065.7	1944.9	1751.9	1681.2	1674.2	1653.0	1594.1	1523.5	1478.7	1478.7
32.5°	4155.9	2943.3	1813.1	1655.3	1620.0	1610.6	1561.1	1509.3	1443.4	1401.0	1393.9
35°	4264.3	2830.3	1726.0	1572.9	1556.4	1537.6	1495.2	1438.7	1419.8	1410.4	1417.5
37.5°	4386.7	2703.1	1620.0	1502.3	1518.7	1483.4	1434.0	1408.1	1474.0	1457.5	1464.6
40°	4582.1	2613.7	1516.4	1459.9	1476.4	1436.3	1372.8	1363.3	1445.8	1386.9	1372.8
42.5°	4940.0	2611.3	1452.8	1396.3	1408.1	1377.5	1321.0	1316.2	1349.2	1278.6	1257.4
45°	5385.1	2693.7	1405.7	1349.2	1339.8	1335.1	1316.2	1295.1	1266.8	1175.0	1151.4
47.5°	5917.2	2827.9	1396.3	1278.6	1290.3	1330.4	1306.8	1252.7	1179.7	1120.8	1109.0
50°	6562.4	3105.8	1372.8	1226.8	1248.0	1311.5	1292.7	1217.4	1151.4	1113.7	1106.7
52.5°	7275.8	3456.6	1342.1	1146.7	1193.8	1295.1	1304.5	1233.8	1137.3	1104.3	1099.6
55°	8116.5	3974.6	1306.8	1059.6	1130.2	1278.6	1304.5	1186.7	1118.5	1118.5	1113.7
57.5°	9776.5	4907.1	1233.8	979.5	1073.7	1248.0	1266.8	1189.1	1120.8	1120.8	1111.4
60°	12211.2	6362.2	1094.9	918.3	1019.6	1205.6	1238.5	1153.8	1094.9	1109.0	1106.7
62.5°	14116.1	6804.9	977.2	859.4	965.4	1127.9	1200.9	1116.1	1064.3	1116.1	1120.8
65°	14523.4	6357.5	857.1	795.9	890.1	1052.5	1146.7	1061.9	1019.6	1120.8	1125.5
66°	14377.4	6009.0	814.7	777.0	857.1	1014.9	1113.7	1043.1	996.0	1116.1	1118.5
67.5°	13727.6	5486.3	767.6	737.0	812.4	960.7	1076.1	1017.2	958.3	1102.0	1080.8
70°	12314.8	4652.8	687.6	666.4	748.8	871.2	988.9	951.3	899.5	1014.9	977.2
72.5°	9484.5	3718.0	602.8	605.1	675.8	779.4	901.8	875.9	831.2	890.1	866.5
75°	5775.9	2375.8	525.1	529.8	588.7	692.3	819.4	800.6	746.4	779.4	767.6
77.5°	2559.5	1177.3	442.7	452.1	499.2	609.9	713.5	682.8	626.3	633.4	628.7
80°	993.7	558.1	360.3	372.0	402.6	487.4	591.0	562.8	513.3	503.9	499.2
82.5°	478.0	310.8	277.8	282.6	294.3	388.5	508.6	473.3	407.4	365.0	365.0
85°	240.2	193.1	195.4	179.0	195.4	263.7	343.8	287.3	237.8	211.9	216.6
87.5°	96.5	96.5	96.5	82.4	87.1	124.8	160.1	108.3	98.9	58.9	58.9
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)