

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: P476711

Luminaire Tested: **IFLD-S-SA2D-827-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476711  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

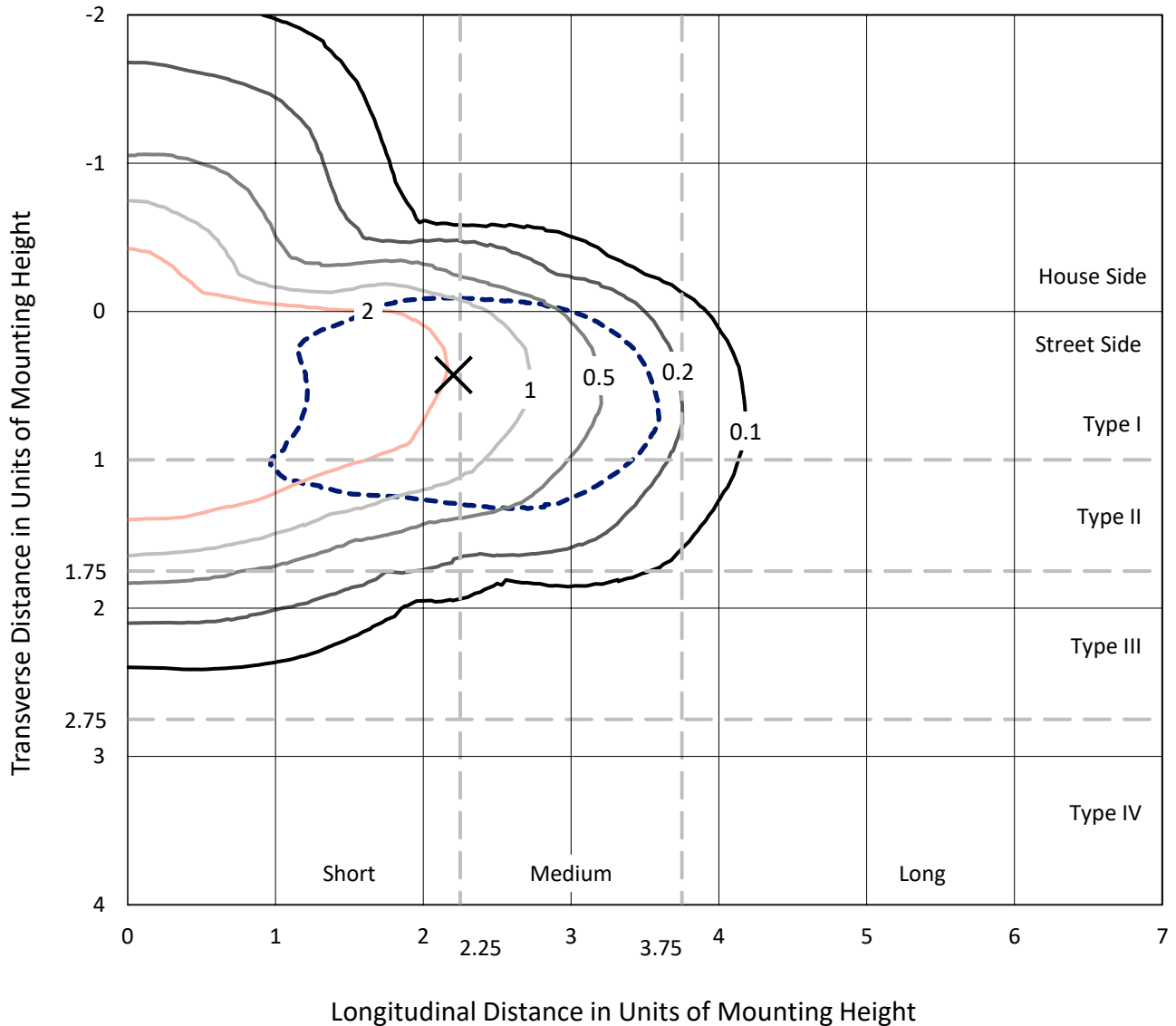
Lumens per Lamp: N/A  
Luminaire Lumens: 11482.7 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9  
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

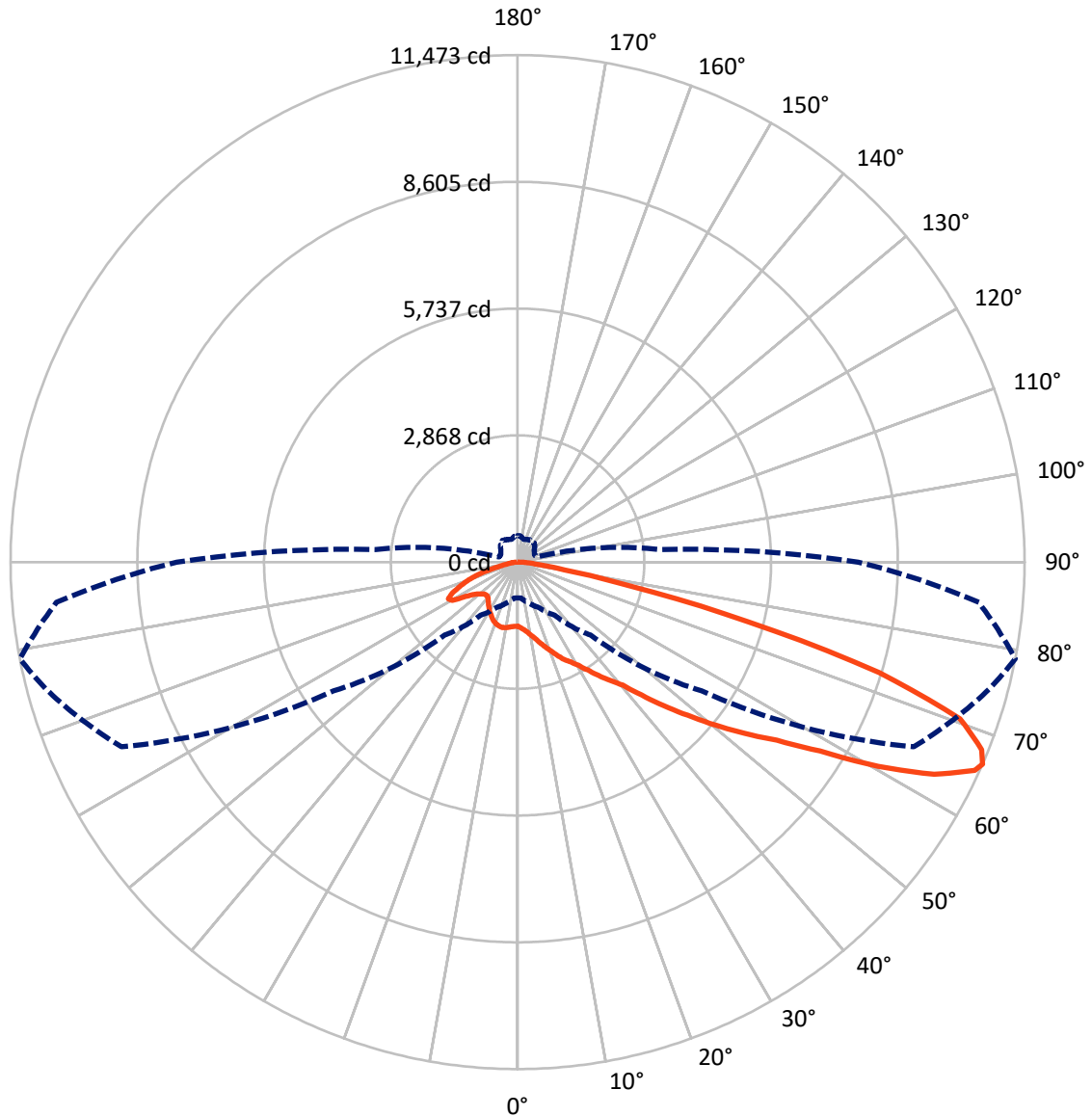
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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	2318.8	0.0	2318.8
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	9164.0	0.0	9164.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	11482.7	0.0	11482.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.6	1.2
10°-20°	440.3	3.8
20°-30°	755.7	6.6
30°-40°	1167.4	10.2
40°-50°	1869.9	16.3
50°-60°	2791.9	24.3
60°-70°	2868.7	25.0
70°-80°	1271.7	11.1
80°-90°	174.5	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°	11482.7	100.0
0°-180°	11482.7	100.0

**Coefficient of Utilization**



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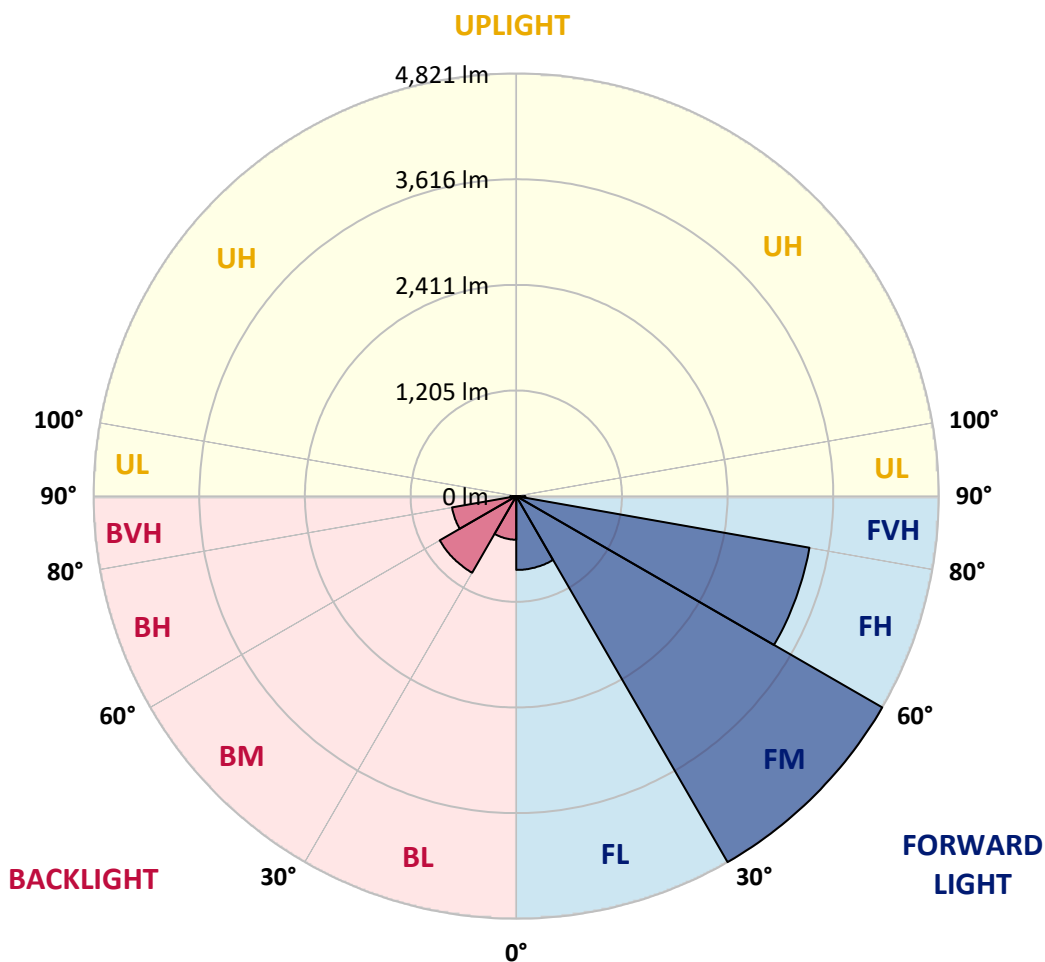
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.8	7.3			
FM (30°-60°)	4821.2	42.0			
FH (60°-80°)	3396.3	29.6			G2/5000
FVH (80°-90°)	104.6	0.9			G2/225
BL (0°-30°)	496.8	4.3	B1/500		
BM (30°-60°)	1008.1	8.8	B2/2500		
BH (60°-80°)	744.0	6.5	B2/1000		G2/1000
BVH (80°-90°)	69.8	0.6			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0
2.5°	1542.2	1543.4	1543.4	1538.4	1539.6	1543.4	1529.5	1499.2	1499.2	1494.2	1485.3
5°	1636.9	1630.6	1621.7	1623.0	1617.9	1617.9	1602.8	1573.7	1548.5	1538.4	1511.8
7.5°	1649.5	1655.8	1654.6	1669.7	1677.3	1677.3	1684.9	1660.9	1623.0	1599.0	1572.5
10°	1674.8	1658.4	1657.1	1692.5	1703.8	1730.3	1760.7	1748.0	1716.4	1682.3	1647.0
12.5°	1689.9	1700.0	1700.0	1717.7	1744.2	1783.4	1836.4	1860.4	1811.2	1775.8	1721.5
15°	1712.7	1698.8	1739.2	1754.3	1804.9	1832.6	1908.4	1970.3	1937.5	1894.5	1808.7
17.5°	1722.8	1713.9	1736.7	1764.4	1850.3	1892.0	1984.2	2070.1	2042.3	2014.5	1926.1
20°	1774.5	1773.3	1783.4	1806.1	1868.0	1950.1	2065.0	2183.8	2193.9	2143.4	2023.4
22.5°	1900.9	1884.4	1884.4	1875.6	1902.1	1986.7	2142.1	2306.3	2351.8	2292.4	2133.2
25°	2017.0	2039.8	2025.9	1985.5	1975.4	2019.6	2197.7	2436.4	2497.0	2441.4	2282.3
27.5°	2166.1	2173.7	2197.7	2143.4	2073.9	2087.8	2258.3	2509.6	2634.7	2560.1	2366.9
30°	2380.8	2366.9	2361.9	2301.2	2210.3	2191.3	2327.8	2617.0	2815.3	2710.4	2466.7
32.5°	2526.0	2560.1	2558.9	2475.5	2365.6	2324.0	2413.6	2718.0	3008.5	2911.3	2651.1
35°	2814.0	2849.4	2821.6	2699.1	2570.3	2486.9	2537.4	2849.4	3229.6	3153.8	2807.7
37.5°	3181.6	3264.9	3205.6	2979.5	2797.6	2706.7	2709.2	2992.1	3455.6	3393.7	2975.7
40°	3435.4	3547.8	3465.7	3253.5	3060.3	2974.4	2940.3	3161.3	3725.9	3660.2	3238.4
42.5°	3749.9	3843.4	3800.4	3590.8	3364.7	3291.4	3223.2	3444.3	4138.9	4108.6	3575.6
45°	4093.5	4137.7	4123.8	3991.2	3739.8	3714.6	3564.3	3816.9	4625.2	4637.8	3997.5
47.5°	4413.0	4437.0	4463.5	4367.5	4210.9	4232.4	3957.1	4216.0	5097.6	5180.9	4467.3
50°	4495.1	4577.2	4639.1	4703.5	4737.6	4882.9	4390.3	4706.0	5640.7	5802.3	4990.2
52.5°	4411.7	4405.4	4593.6	4795.7	5136.7	5441.1	4980.1	5314.8	6120.6	6440.2	5468.9
55°	4032.8	4020.2	4323.3	4591.1	5256.7	5751.8	5822.5	6125.7	6700.3	7115.9	6116.8
57.5°	3369.7	3291.4	3622.4	4061.9	4996.5	5785.9	6668.8	7329.3	7592.0	8065.7	7105.8
60°	2264.6	2231.8	2548.8	3072.9	4056.8	5302.2	7175.2	8836.1	8848.7	9381.7	8640.3
62.5°	1394.4	1400.7	1604.0	1996.8	2840.5	4203.3	6956.7	10039.8	10042.3	10576.6	9903.4
65°	911.9	915.7	1079.9	1297.1	1774.5	2850.6	5753.1	10134.5	10872.1	11368.5	10481.8
66°	812.1	813.4	954.8	1131.7	1470.2	2332.8	5081.1	9888.2	11059.0	11473.3	10474.3
67.5°	684.6	701.0	814.7	951.1	1146.8	1676.0	4031.6	9175.9	10963.0	11326.8	10236.8
70°	535.5	544.4	634.0	773.0	860.1	970.0	2396.0	7479.6	10034.7	10624.6	9372.9
72.5°	429.4	437.0	505.2	627.7	698.5	639.1	1304.7	5427.2	7926.7	8555.7	7372.3
75°	362.5	363.8	396.6	493.8	574.7	479.9	694.7	3483.4	5086.2	5379.2	4516.6
77.5°	293.0	298.1	320.8	376.4	462.3	377.6	414.3	1951.4	2553.8	2575.3	2087.8
80°	238.7	241.2	255.1	274.1	352.4	279.1	280.4	952.3	1095.0	1069.8	848.8
82.5°	188.2	190.7	207.1	203.3	258.9	199.6	174.3	458.5	503.9	493.8	390.3
85°	106.1	106.1	162.9	162.9	164.2	126.3	106.1	216.0	266.5	248.8	183.1
87.5°	34.1	35.4	49.3	51.8	82.1	56.8	51.8	80.8	126.3	111.1	65.7
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°	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0
2.5°	1480.3	1460.1	1451.2	1422.2	1414.6	1395.6	1386.8	1375.4	1371.6	1355.2	1370.4
5°	1491.6	1485.3	1450.0	1413.3	1385.5	1372.9	1354.0	1328.7	1326.2	1303.4	1300.9
7.5°	1539.6	1518.2	1456.3	1417.1	1361.5	1330.0	1288.3	1275.7	1259.2	1251.7	1268.1
10°	1614.1	1559.8	1467.6	1369.1	1300.9	1263.0	1232.7	1223.9	1225.1	1220.1	1212.5
12.5°	1667.2	1615.4	1448.7	1328.7	1240.3	1203.7	1201.1	1210.0	1223.9	1217.6	1226.4
15°	1743.0	1645.7	1434.8	1261.8	1191.0	1180.9	1179.7	1206.2	1204.9	1204.9	1203.7
17.5°	1813.7	1676.0	1384.3	1203.7	1139.2	1146.8	1155.7	1154.4	1167.0	1172.1	1180.9
20°	1903.4	1711.4	1313.5	1145.6	1100.1	1097.6	1096.3	1097.6	1110.2	1117.8	1111.5
22.5°	1981.7	1719.0	1254.2	1090.0	1053.4	1043.3	1026.8	1043.3	1036.9	1039.5	1047.0
25°	2049.9	1720.2	1169.6	1048.3	1006.6	983.9	971.3	970.0	958.6	957.4	957.4
27.5°	2106.7	1677.3	1095.0	990.2	951.1	929.6	928.3	914.4	885.4	866.4	869.0
30°	2150.9	1644.5	1043.3	939.7	901.8	898.0	886.6	855.1	817.2	793.2	793.2
32.5°	2229.2	1578.8	972.5	887.9	869.0	863.9	837.4	809.6	774.2	751.5	747.7
35°	2287.3	1518.2	925.8	843.7	834.9	824.8	802.0	771.7	761.6	756.6	760.3
37.5°	2353.0	1450.0	869.0	805.8	814.7	795.7	769.2	755.3	790.7	781.8	785.6
40°	2457.8	1402.0	813.4	783.1	791.9	770.4	736.3	731.3	775.5	743.9	736.3
42.5°	2649.8	1400.7	779.3	749.0	755.3	738.9	708.6	706.0	723.7	685.8	674.5
45°	2888.5	1444.9	754.0	723.7	718.7	716.1	706.0	694.7	679.5	630.2	617.6
47.5°	3174.0	1516.9	749.0	685.8	692.1	713.6	701.0	671.9	632.8	601.2	594.9
50°	3520.0	1665.9	736.3	658.0	669.4	703.5	693.4	653.0	617.6	597.4	593.6
52.5°	3902.7	1854.1	719.9	615.1	640.4	694.7	699.7	661.8	610.0	592.4	589.8
55°	4353.6	2132.0	701.0	568.4	606.3	685.8	699.7	636.6	599.9	599.9	597.4
57.5°	5244.1	2632.1	661.8	525.4	575.9	669.4	679.5	637.8	601.2	601.2	596.1
60°	6550.0	3412.7	587.3	492.6	546.9	646.7	664.4	618.9	587.3	594.9	593.6
62.5°	7571.8	3650.1	524.2	461.0	517.8	605.0	644.1	598.7	570.9	598.7	601.2
65°	7790.3	3410.2	459.7	426.9	477.4	564.6	615.1	569.6	546.9	601.2	603.7
66°	7712.0	3223.2	437.0	416.8	459.7	544.4	597.4	559.5	534.3	598.7	599.9
67.5°	7363.4	2942.8	411.7	395.3	435.7	515.3	577.2	545.6	514.1	591.1	579.7
70°	6605.6	2495.7	368.8	357.4	401.6	467.3	530.5	510.3	482.5	544.4	524.2
72.5°	5087.5	1994.3	323.3	324.6	362.5	418.1	483.7	469.8	445.8	477.4	464.8
75°	3098.2	1274.4	281.7	284.2	315.8	371.3	439.5	429.4	400.4	418.1	411.7
77.5°	1372.9	631.5	237.4	242.5	267.8	327.1	382.7	366.3	336.0	339.8	337.2
80°	533.0	299.3	193.2	199.6	216.0	261.4	317.0	301.9	275.3	270.3	267.8
82.5°	256.4	166.7	149.0	151.6	157.9	208.4	272.8	253.9	218.5	195.8	195.8
85°	128.8	103.6	104.8	96.0	104.8	141.5	184.4	154.1	127.6	113.7	116.2
87.5°	51.8	51.8	51.8	44.2	46.7	66.9	85.9	58.1	53.0	31.6	31.6
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)