

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: P476710

Luminaire Tested: **IFLD-S-SA2C-827-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476710  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-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**

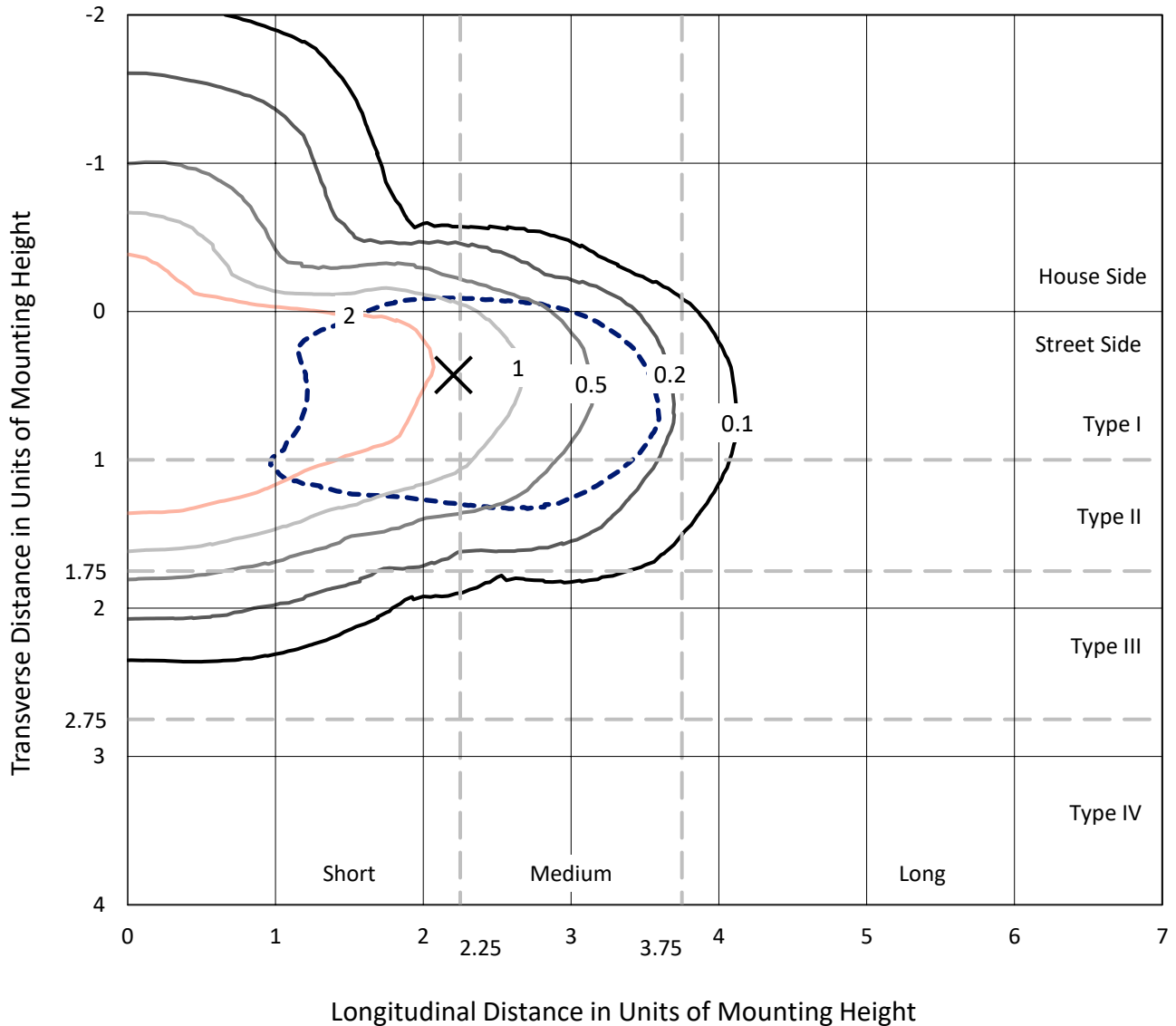
Lumens per Lamp: N/A  
Luminaire Lumens: 10435.7 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2  
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

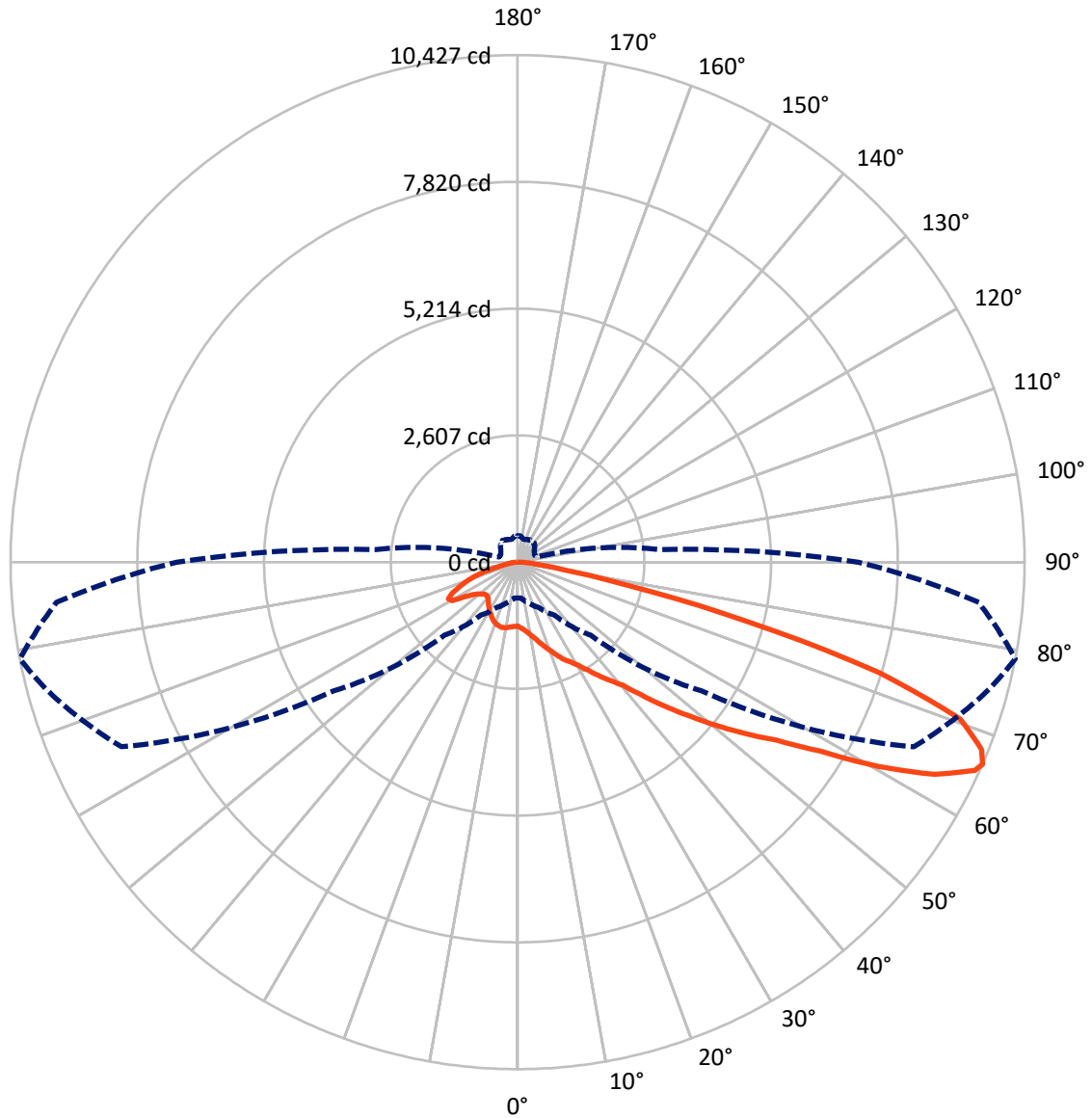
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	2107.3	0.0	2107.3
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	8328.3	0.0	8328.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	10435.7	0.0	10435.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.6	1.2
10°-20°	400.1	3.8
20°-30°	686.8	6.6
30°-40°	1061.0	10.2
40°-50°	1699.4	16.3
50°-60°	2537.4	24.3
60°-70°	2607.1	25.0
70°-80°	1155.7	11.1
80°-90°	158.6	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°	10435.7	100.0
0°-180°	10435.7	100.0

**Coefficient of Utilization**



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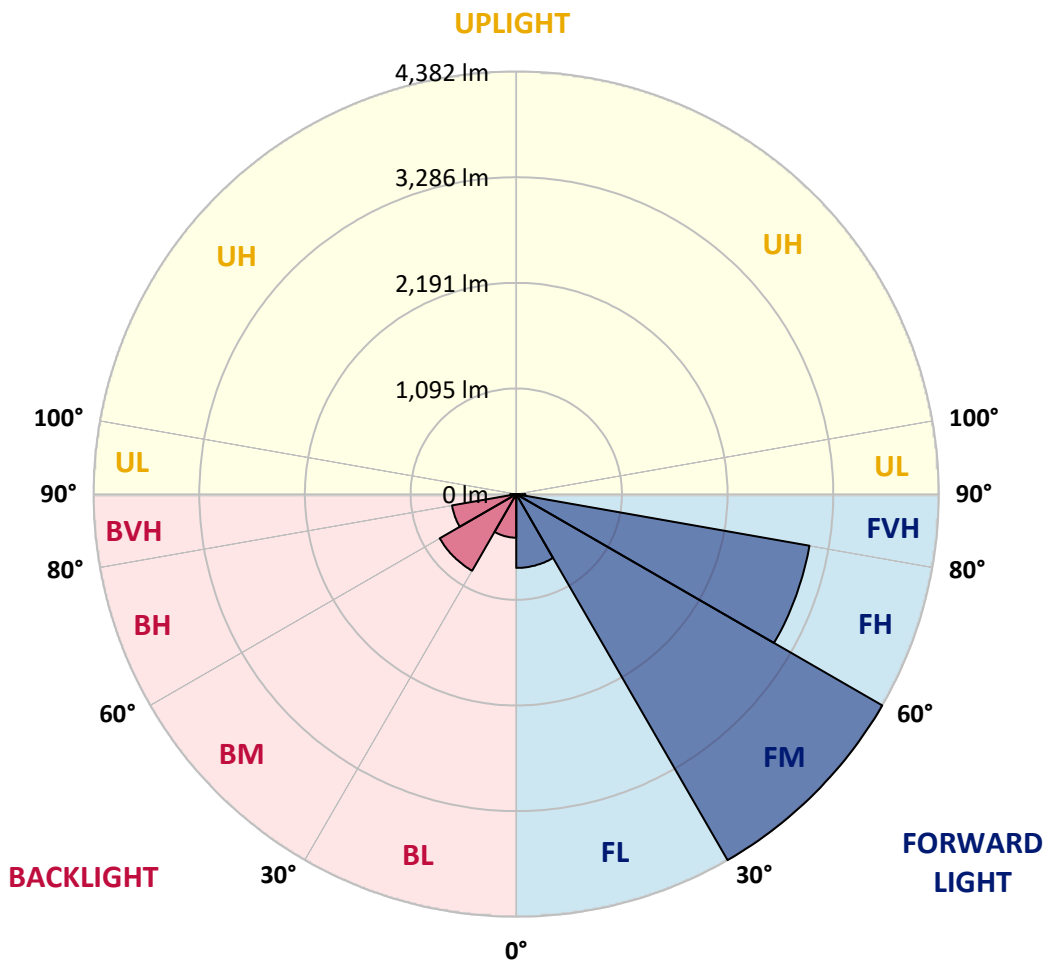
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.0	7.3			
FM (30°-60°)	4381.6	42.0			
FH (60°-80°)	3086.6	29.6			G2/5000
FVH (80°-90°)	95.1	0.9			G1/100
BL (0°-30°)	451.5	4.3	B1/500		
BM (30°-60°)	916.2	8.8	B1/1000		
BH (60°-80°)	676.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	63.5	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°	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7
2.5°	1401.5	1402.7	1402.7	1398.1	1399.2	1402.7	1390.0	1362.5	1362.5	1357.9	1349.9
5°	1487.6	1481.9	1473.8	1475.0	1470.4	1470.4	1456.6	1430.2	1407.3	1398.1	1374.0
7.5°	1499.1	1504.8	1503.7	1517.5	1524.3	1524.3	1531.2	1509.4	1475.0	1453.2	1429.1
10°	1522.1	1507.1	1506.0	1538.1	1548.5	1572.6	1600.1	1588.6	1559.9	1528.9	1496.8
12.5°	1535.8	1545.0	1545.0	1561.1	1585.2	1620.8	1669.0	1690.8	1646.0	1613.9	1564.5
15°	1556.5	1543.9	1580.6	1594.4	1640.3	1665.5	1734.4	1790.6	1760.8	1721.8	1643.7
17.5°	1565.7	1557.6	1578.3	1603.5	1681.6	1719.5	1803.3	1881.3	1856.1	1830.8	1750.5
20°	1612.7	1611.6	1620.8	1641.4	1697.7	1772.3	1876.7	1984.6	1993.8	1947.9	1838.9
22.5°	1727.5	1712.6	1712.6	1704.6	1728.7	1805.6	1946.8	2096.0	2137.3	2083.4	1938.7
25°	1833.1	1853.8	1841.2	1804.4	1795.2	1835.4	1997.3	2214.2	2269.3	2218.8	2074.2
27.5°	1968.6	1975.5	1997.3	1947.9	1884.8	1897.4	2052.4	2280.8	2394.4	2326.7	2151.1
30°	2163.7	2151.1	2146.5	2091.4	2008.7	1991.5	2115.5	2378.4	2558.6	2463.3	2241.8
32.5°	2295.7	2326.7	2325.5	2249.8	2149.9	2112.0	2193.5	2470.2	2734.2	2645.8	2409.3
35°	2557.4	2589.6	2564.3	2453.0	2335.9	2260.1	2306.0	2589.6	2935.1	2866.2	2551.7
37.5°	2891.4	2967.2	2913.2	2707.8	2542.5	2459.8	2462.1	2719.3	3140.5	3084.3	2704.3
40°	3122.2	3224.3	3149.7	2956.9	2781.2	2703.2	2672.2	2873.1	3386.2	3326.5	2943.1
42.5°	3408.0	3492.9	3453.9	3263.3	3057.9	2991.3	2929.3	3130.2	3761.5	3734.0	3249.6
45°	3720.2	3760.4	3747.7	3627.2	3398.8	3375.8	3239.2	3468.8	4203.4	4214.9	3633.0
47.5°	4010.6	4032.4	4056.5	3969.3	3826.9	3846.5	3596.2	3831.5	4632.7	4708.5	4060.0
50°	4085.2	4159.8	4216.1	4274.6	4305.6	4437.6	3989.9	4276.9	5126.3	5273.2	4535.2
52.5°	4009.4	4003.7	4174.7	4358.4	4668.3	4944.9	4526.0	4830.2	5562.5	5852.9	4970.2
55°	3665.1	3653.6	3929.1	4172.4	4777.4	5227.3	5291.6	5567.1	6089.4	6467.0	5559.0
57.5°	3062.5	2991.3	3292.0	3691.5	4540.9	5258.3	6060.7	6661.0	6899.7	7330.2	6457.8
60°	2058.1	2028.3	2316.4	2792.7	3686.9	4818.7	6520.9	8030.4	8041.9	8526.2	7852.5
62.5°	1267.2	1273.0	1457.8	1814.8	2581.5	3820.1	6322.4	9124.3	9126.6	9612.1	9000.3
65°	828.7	832.2	981.4	1178.8	1612.7	2590.7	5228.5	9210.4	9880.7	10331.8	9526.0
66°	738.1	739.2	867.8	1028.5	1336.1	2120.1	4617.8	8986.5	10050.6	10427.1	9519.1
67.5°	622.1	637.1	740.4	864.3	1042.2	1523.2	3663.9	8339.1	9963.4	10293.9	9303.3
70°	486.7	494.7	576.2	702.5	781.7	881.6	2177.5	6797.6	9119.7	9655.7	8518.2
72.5°	390.3	397.2	459.1	570.5	634.8	580.8	1185.7	4932.3	7203.9	7775.6	6700.0
75°	329.4	330.6	360.4	448.8	522.3	436.2	631.3	3165.8	4622.4	4888.7	4104.7
77.5°	266.3	270.9	291.6	342.1	420.1	343.2	376.5	1773.4	2321.0	2340.5	1897.4
80°	216.9	219.2	231.9	249.1	320.3	253.7	254.8	865.5	995.2	972.2	771.4
82.5°	171.0	173.3	188.2	184.8	235.3	181.4	158.4	416.7	458.0	448.8	354.7
85°	96.4	96.4	148.1	148.1	149.2	114.8	96.4	196.3	242.2	226.1	166.4
87.5°	31.0	32.1	44.8	47.1	74.6	51.7	47.1	73.5	114.8	101.0	59.7
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°	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7
2.5°	1345.3	1326.9	1318.9	1292.5	1285.6	1268.4	1260.3	1250.0	1246.6	1231.6	1245.4
5°	1355.6	1349.9	1317.7	1284.4	1259.2	1247.7	1230.5	1207.5	1205.2	1184.6	1182.3
7.5°	1399.2	1379.7	1323.5	1287.9	1237.4	1208.7	1170.8	1159.3	1144.4	1137.5	1152.4
10°	1467.0	1417.6	1333.8	1244.3	1182.3	1147.9	1120.3	1112.3	1113.4	1108.8	1101.9
12.5°	1515.2	1468.1	1316.6	1207.5	1127.2	1093.9	1091.6	1099.6	1112.3	1106.5	1114.6
15°	1584.0	1495.7	1304.0	1146.7	1082.4	1073.2	1072.1	1096.2	1095.1	1095.1	1093.9
17.5°	1648.3	1523.2	1258.0	1093.9	1035.4	1042.2	1050.3	1049.1	1060.6	1065.2	1073.2
20°	1729.8	1555.3	1193.8	1041.1	999.8	997.5	996.3	997.5	1009.0	1015.8	1010.1
22.5°	1801.0	1562.2	1139.8	990.6	957.3	948.1	933.2	948.1	942.4	944.7	951.6
25°	1863.0	1563.4	1062.9	952.7	914.8	894.2	882.7	881.6	871.2	870.1	870.1
27.5°	1914.6	1524.3	995.2	899.9	864.3	844.8	843.7	831.0	804.6	787.4	789.7
30°	1954.8	1494.5	948.1	854.0	819.6	816.1	805.8	777.1	742.7	720.9	720.9
32.5°	2026.0	1434.8	883.8	806.9	789.7	785.1	761.0	735.8	703.6	683.0	679.5
35°	2078.8	1379.7	841.4	766.8	758.7	749.5	728.9	701.3	692.2	687.6	691.0
37.5°	2138.4	1317.7	789.7	732.3	740.4	723.1	699.0	686.4	718.6	710.5	714.0
40°	2233.7	1274.1	739.2	711.7	719.7	700.2	669.2	664.6	704.8	676.1	669.2
42.5°	2408.2	1273.0	708.2	680.7	686.4	671.5	643.9	641.6	657.7	623.3	613.0
45°	2625.1	1313.1	685.3	657.7	653.1	650.8	641.6	631.3	617.5	572.8	561.3
47.5°	2884.6	1378.6	680.7	623.3	629.0	648.5	637.1	610.7	575.1	546.4	540.6
50°	3199.1	1514.0	669.2	598.0	608.4	639.4	630.2	593.4	561.3	542.9	539.5
52.5°	3546.9	1685.0	654.3	559.0	582.0	631.3	635.9	601.5	554.4	538.3	536.0
55°	3956.6	1937.6	637.1	516.5	551.0	623.3	635.9	578.5	545.2	545.2	542.9
57.5°	4765.9	2392.1	601.5	477.5	523.4	608.4	617.5	579.7	546.4	546.4	541.8
60°	5952.8	3101.5	533.8	447.7	497.0	587.7	603.8	562.4	533.8	540.6	539.5
62.5°	6881.4	3317.3	476.4	419.0	470.6	549.8	585.4	544.1	518.8	544.1	546.4
65°	7080.0	3099.2	417.8	388.0	433.9	513.1	559.0	517.7	497.0	546.4	548.7
66°	7008.8	2929.3	397.2	378.8	417.8	494.7	542.9	508.5	485.5	544.1	545.2
67.5°	6692.0	2674.5	374.2	359.3	396.0	468.3	524.6	495.9	467.2	537.2	526.9
70°	6003.3	2268.2	335.2	324.8	365.0	424.7	482.1	463.7	438.5	494.7	476.4
72.5°	4623.5	1812.5	293.9	295.0	329.4	379.9	439.6	427.0	405.2	433.9	422.4
75°	2815.7	1158.2	256.0	258.3	287.0	337.5	399.5	390.3	363.9	379.9	374.2
77.5°	1247.7	573.9	215.8	220.4	243.3	297.3	347.8	332.9	305.3	308.8	306.5
80°	484.4	272.0	175.6	181.4	196.3	237.6	288.1	274.3	250.2	245.6	243.3
82.5°	233.0	151.5	135.4	137.7	143.5	189.4	247.9	230.7	198.6	177.9	177.9
85°	117.1	94.1	95.3	87.2	95.3	128.6	167.6	140.0	115.9	103.3	105.6
87.5°	47.1	47.1	47.1	40.2	42.5	60.8	78.1	52.8	48.2	28.7	28.7
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)