

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: P479050

Luminaire Tested: **IFLD-S-SA2C-827-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479050  
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-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ  
distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

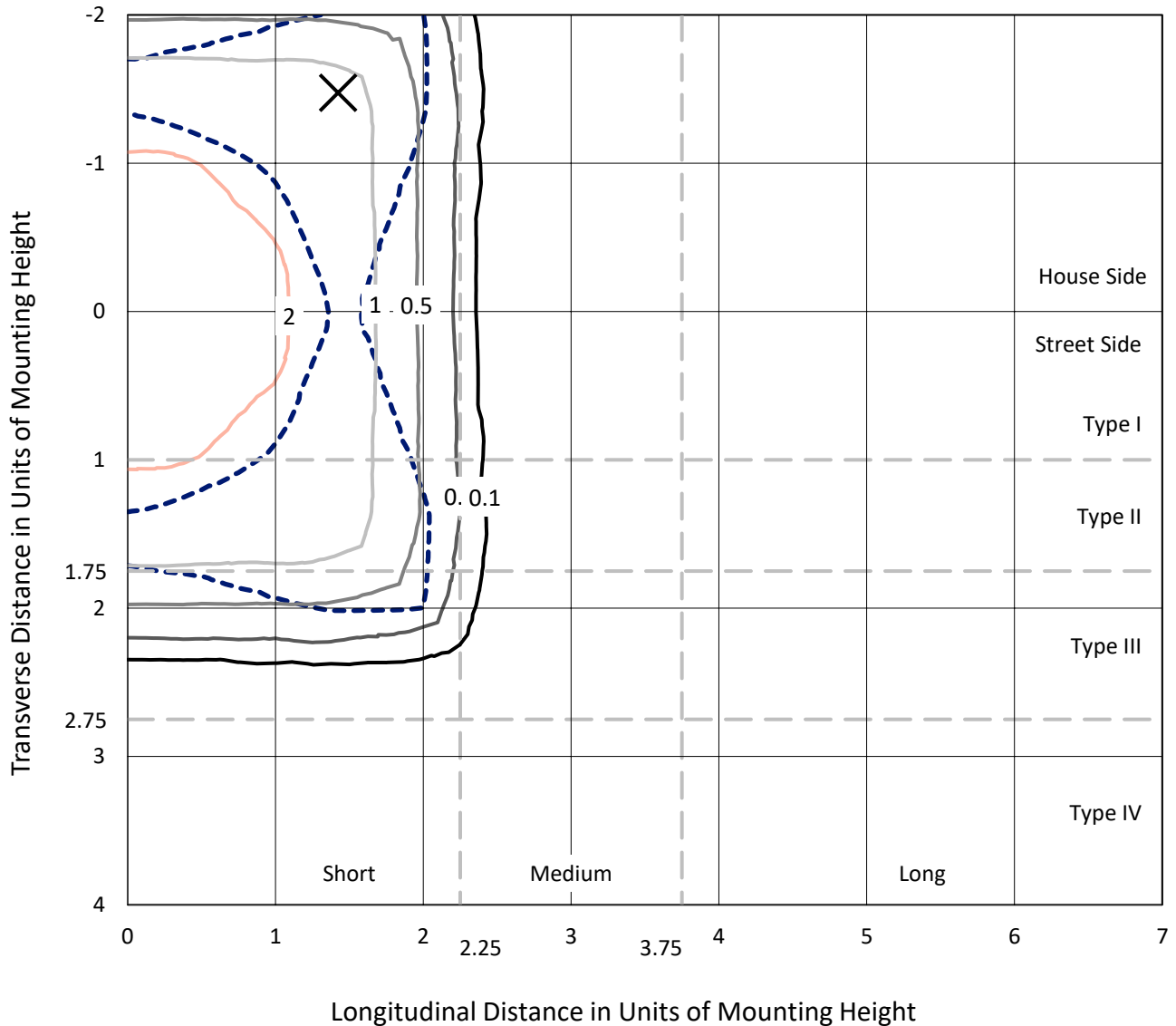
Lumens per Lamp: N/A  
Luminaire Lumens: 10420.8 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

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

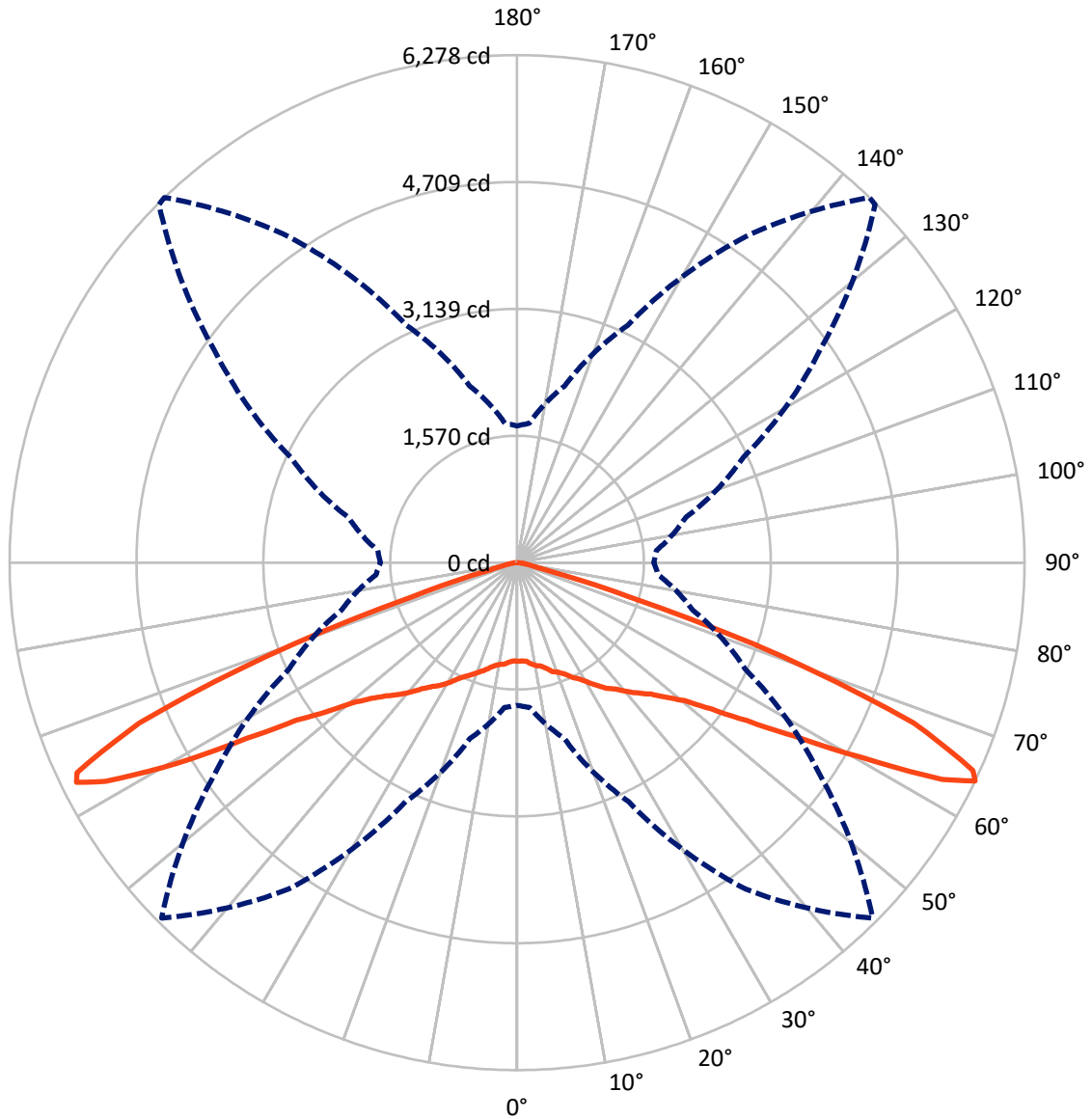
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5215.4	0.0	5215.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5205.4	0.0	5205.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10420.8	0.0	10420.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	1.2
10°-20°	386.4	3.7
20°-30°	726.2	7.0
30°-40°	1197.6	11.5
40°-50°	1872.9	18.0
50°-60°	3026.2	29.0
60°-70°	2724.8	26.1
70°-80°	322.8	3.1
80°-90°	44.2	0.4
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°	10420.8	100.0
0°-180°	10420.8	100.0

**Coefficient of Utilization**



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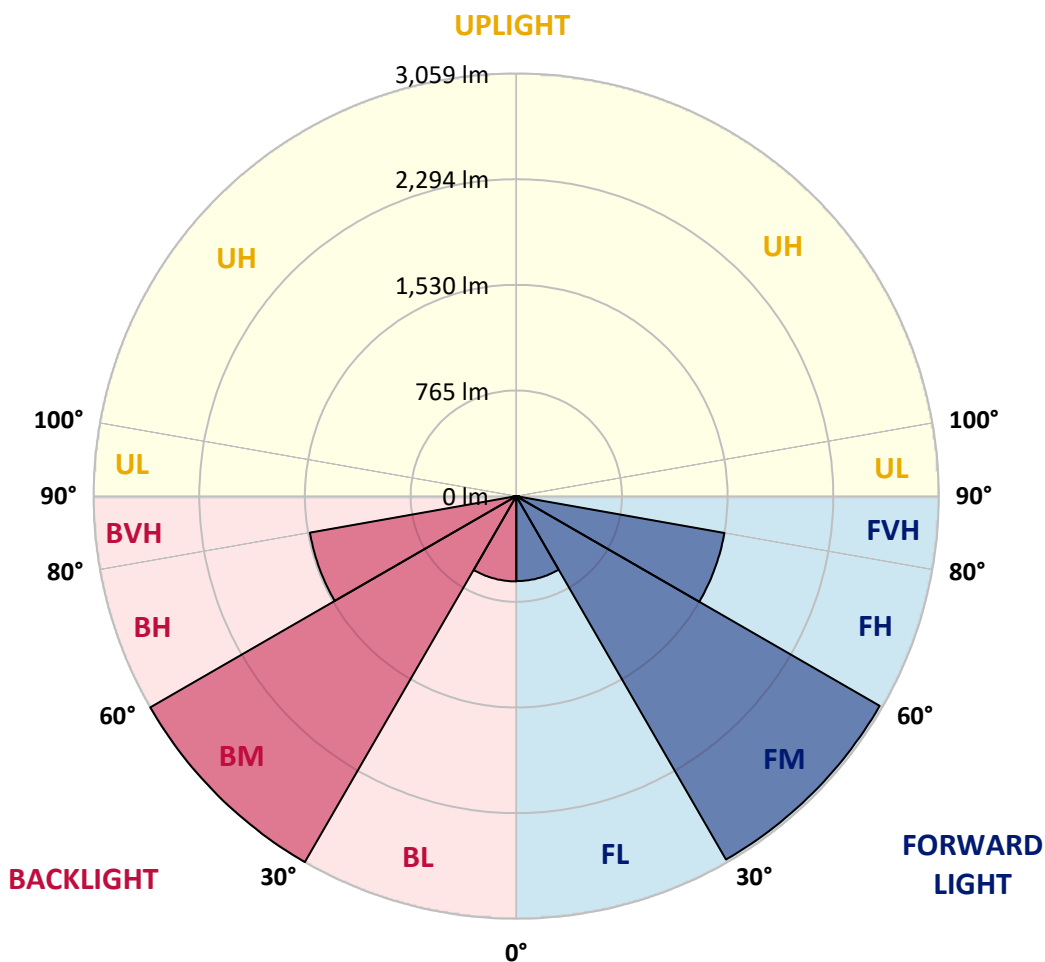
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.0	5.9			
FM (30°-60°)	3037.4	29.1			
FH (60°-80°)	1530.4	14.7			G1/1800
FVH (80°-90°)	22.7	0.2			G1/100
BL (0°-30°)	617.4	5.9	B2/1000		
BM (30°-60°)	3059.3	29.4	B3/5000		
BH (60°-80°)	1517.2	14.6	B3/2500		G1/1800
BVH (80°-90°)	21.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1
2.5°	1205.7	1208.1	1229.6	1221.3	1228.4	1215.3	1224.8	1245.2	1221.3	1239.2	1245.2
5°	1218.9	1222.5	1222.5	1230.8	1235.6	1233.2	1239.2	1230.8	1253.5	1244.0	1258.3
7.5°	1266.7	1260.7	1251.1	1258.3	1259.5	1265.5	1271.4	1282.2	1278.6	1270.3	1284.6
10°	1275.0	1270.3	1284.6	1285.8	1279.8	1275.0	1281.0	1281.0	1291.8	1294.2	1294.2
12.5°	1289.4	1294.2	1293.0	1302.5	1303.7	1300.1	1309.7	1327.6	1322.8	1326.4	1318.1
15°	1344.3	1338.4	1337.2	1346.7	1362.3	1339.6	1356.3	1355.1	1350.3	1357.5	1338.4
17.5°	1392.1	1373.0	1381.4	1396.9	1390.9	1395.7	1417.2	1398.1	1402.9	1394.5	1388.6
20°	1434.0	1418.4	1419.6	1425.6	1425.6	1439.9	1448.3	1441.1	1436.4	1435.2	1437.5
22.5°	1480.6	1462.6	1463.8	1488.9	1497.3	1492.5	1486.5	1498.5	1500.9	1491.3	1502.1
25°	1515.2	1534.3	1540.3	1552.3	1534.3	1547.5	1542.7	1565.4	1579.8	1560.6	1573.8
27.5°	1606.0	1597.7	1613.2	1612.0	1626.4	1613.2	1621.6	1628.7	1634.7	1635.9	1629.9
30°	1687.3	1690.9	1675.3	1717.2	1683.7	1705.2	1719.6	1723.1	1730.3	1730.3	1712.4
32.5°	1773.3	1766.2	1791.3	1781.7	1775.7	1792.5	1776.9	1825.9	1797.2	1814.0	1793.7
35°	1870.1	1870.1	1879.7	1906.0	1870.1	1859.4	1888.1	1908.4	1908.4	1878.5	1885.7
37.5°	1978.9	1969.3	1981.3	2014.7	1987.2	1951.4	2004.0	2012.3	2006.4	1998.0	1983.7
40°	2055.3	2053.0	2076.9	2121.1	2081.6	2074.5	2084.0	2106.7	2113.9	2122.3	2103.1
42.5°	2184.4	2195.2	2264.5	2253.7	2221.4	2196.4	2194.0	2278.8	2258.5	2237.0	2226.2
45°	2375.6	2366.0	2401.9	2403.1	2361.3	2306.3	2318.2	2395.9	2430.6	2382.8	2400.7
47.5°	2527.4	2532.1	2557.2	2608.6	2511.8	2454.5	2498.7	2624.2	2613.4	2595.5	2612.2
50°	2730.5	2752.0	2830.9	2813.0	2726.9	2656.4	2753.2	2871.5	2884.7	2818.9	2807.0
52.5°	3011.3	3044.8	3087.8	3102.1	3019.7	2994.6	3000.6	3147.6	3115.3	3052.0	3011.3
55°	3257.5	3273.0	3351.9	3470.2	3464.2	3343.5	3412.8	3467.8	3336.4	3206.1	3216.9
57.5°	3362.6	3369.8	3589.7	3826.3	3967.3	3994.8	3915.9	3730.7	3417.6	3166.7	3151.1
60°	3100.9	3169.1	3434.3	3968.5	4612.6	4930.4	4405.9	3760.6	3227.6	2922.9	2900.2
62.5°	2478.4	2482.0	2876.3	3686.5	5014.1	5847.0	4593.5	3479.8	2720.9	2375.6	2284.8
64°	1765.0	1798.4	2251.3	3263.5	4930.4	6219.8	4570.8	3112.9	2243.0	1753.0	1689.7
65°	1266.7	1313.3	1750.6	2833.3	4734.5	6175.6	4502.6	2797.4	1814.0	1338.4	1273.8
67.5°	466.0	485.2	687.1	1417.2	3399.7	5262.6	3568.2	1537.9	797.0	567.6	510.3
70°	216.3	217.5	254.5	468.4	1486.5	3519.2	1702.8	577.2	299.9	237.8	221.1
72.5°	158.9	162.5	178.1	216.3	437.4	1490.1	559.2	236.6	175.7	155.3	151.8
75°	129.1	131.4	136.2	156.5	201.9	399.1	227.0	163.7	139.8	125.5	120.7
77.5°	99.2	99.2	109.9	119.5	133.8	186.4	150.6	130.3	113.5	99.2	95.6
80°	71.7	72.9	86.0	93.2	90.8	123.1	108.7	107.5	93.2	77.7	71.7
82.5°	41.8	45.4	62.1	66.9	64.5	72.9	78.9	83.6	72.9	53.8	49.0
85°	23.9	25.1	35.8	37.0	37.0	34.7	45.4	50.2	49.0	33.5	29.9
87.5°	7.2	7.2	9.6	9.6	10.8	11.9	17.9	21.5	23.9	16.7	15.5
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1
2.5°	1239.2	1221.3	1222.5	1227.2	1211.7	1217.7	1235.6	1222.5	1218.9	1211.7	1208.1
5°	1233.2	1252.3	1245.2	1247.5	1244.0	1227.2	1224.8	1235.6	1241.6	1230.8	1252.3
7.5°	1275.0	1266.7	1257.1	1260.7	1252.3	1266.7	1276.2	1254.7	1265.5	1259.5	1247.5
10°	1298.9	1283.4	1290.6	1288.2	1282.2	1296.5	1287.0	1284.6	1275.0	1261.9	1281.0
12.5°	1307.3	1325.2	1337.2	1316.9	1320.4	1313.3	1307.3	1307.3	1296.5	1293.0	1296.5
15°	1344.3	1359.9	1355.1	1370.6	1350.3	1357.5	1364.7	1346.7	1356.3	1330.0	1350.3
17.5°	1412.5	1399.3	1416.0	1395.7	1402.9	1417.2	1394.5	1394.5	1401.7	1387.4	1369.4
20°	1455.5	1449.5	1443.5	1444.7	1432.8	1445.9	1438.7	1435.2	1424.4	1429.2	1438.7
22.5°	1496.1	1487.7	1490.1	1493.7	1502.1	1496.1	1492.5	1496.1	1469.8	1493.7	1460.3
25°	1546.3	1569.0	1561.8	1577.4	1553.5	1569.0	1567.8	1545.1	1559.4	1549.9	1542.7
27.5°	1629.9	1618.0	1628.7	1609.6	1626.4	1627.5	1613.2	1651.4	1634.7	1632.3	1627.5
30°	1737.5	1729.1	1722.0	1711.2	1724.3	1713.6	1725.5	1729.1	1713.6	1701.6	1678.9
32.5°	1798.4	1821.1	1829.5	1803.2	1804.4	1810.4	1799.6	1788.9	1798.4	1802.0	1798.4
35°	1884.5	1906.0	1910.8	1890.4	1879.7	1909.6	1888.1	1923.9	1892.8	1894.0	1861.8
37.5°	1984.8	1990.8	2031.4	2008.7	1999.2	1984.8	2024.3	2019.5	2026.7	1969.3	1998.0
40°	2098.4	2119.9	2142.6	2085.2	2084.0	2097.2	2094.8	2122.3	2109.1	2100.8	2080.4
42.5°	2222.6	2268.1	2271.6	2233.4	2209.5	2207.1	2219.1	2280.0	2281.2	2226.2	2202.3
45°	2387.6	2437.7	2424.6	2350.5	2324.2	2320.6	2379.2	2405.5	2428.2	2406.7	2386.4
47.5°	2593.1	2626.5	2617.0	2548.9	2464.0	2487.9	2545.3	2627.7	2603.8	2575.2	2551.3
50°	2813.0	2852.4	2832.1	2764.0	2682.7	2682.7	2753.2	2858.4	2851.2	2795.0	2773.5
52.5°	3056.7	3114.1	3160.7	3063.9	2995.8	3006.5	3117.7	3155.9	3138.0	3098.6	3080.6
55°	3238.4	3348.3	3443.9	3448.7	3452.3	3451.1	3479.8	3518.0	3390.1	3326.8	3262.3
57.5°	3194.2	3402.1	3729.5	3951.8	4017.5	4052.1	4042.6	3865.7	3563.4	3355.5	3377.0
60°	2878.7	3218.1	3746.2	4459.6	4937.6	4889.8	4715.4	4016.3	3467.8	3116.5	3072.3
62.5°	2296.7	2705.4	3465.4	4603.0	5919.9	5905.5	4992.6	3668.6	2889.4	2444.9	2417.4
64°	1730.3	2160.5	3091.4	4566.0	6264.0	6278.4	4922.1	3240.8	2260.9	1730.3	1688.5
65°	1324.0	1723.1	2724.5	4489.5	6189.9	6198.3	4726.1	2798.6	1718.4	1228.4	1183.0
67.5°	527.0	733.7	1478.2	3404.5	5315.2	5292.5	3372.2	1353.9	657.2	427.8	419.4
70°	224.7	279.6	518.6	1613.2	3558.6	3492.9	1451.9	439.7	243.8	204.3	203.1
72.5°	154.2	170.9	222.3	498.3	1479.4	1444.7	413.5	204.3	166.1	153.0	153.0
75°	124.3	136.2	161.3	209.1	392.0	377.6	194.8	150.6	132.6	123.1	121.9
77.5°	96.8	108.7	126.7	144.6	179.2	178.1	130.3	113.5	102.8	95.6	93.2
80°	76.5	88.4	100.4	102.8	117.1	114.7	88.4	89.6	83.6	69.3	68.1
82.5°	52.6	71.7	80.1	72.9	69.3	69.3	63.3	63.3	58.6	43.0	39.4
85°	32.3	47.8	50.2	43.0	32.3	32.3	34.7	33.5	31.1	22.7	21.5
87.5°	16.7	22.7	20.3	16.7	10.8	10.8	9.6	7.2	7.2	6.0	6.0
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)