

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: P478664

Luminaire Tested: **IFLD-S-SA3B-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478664  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

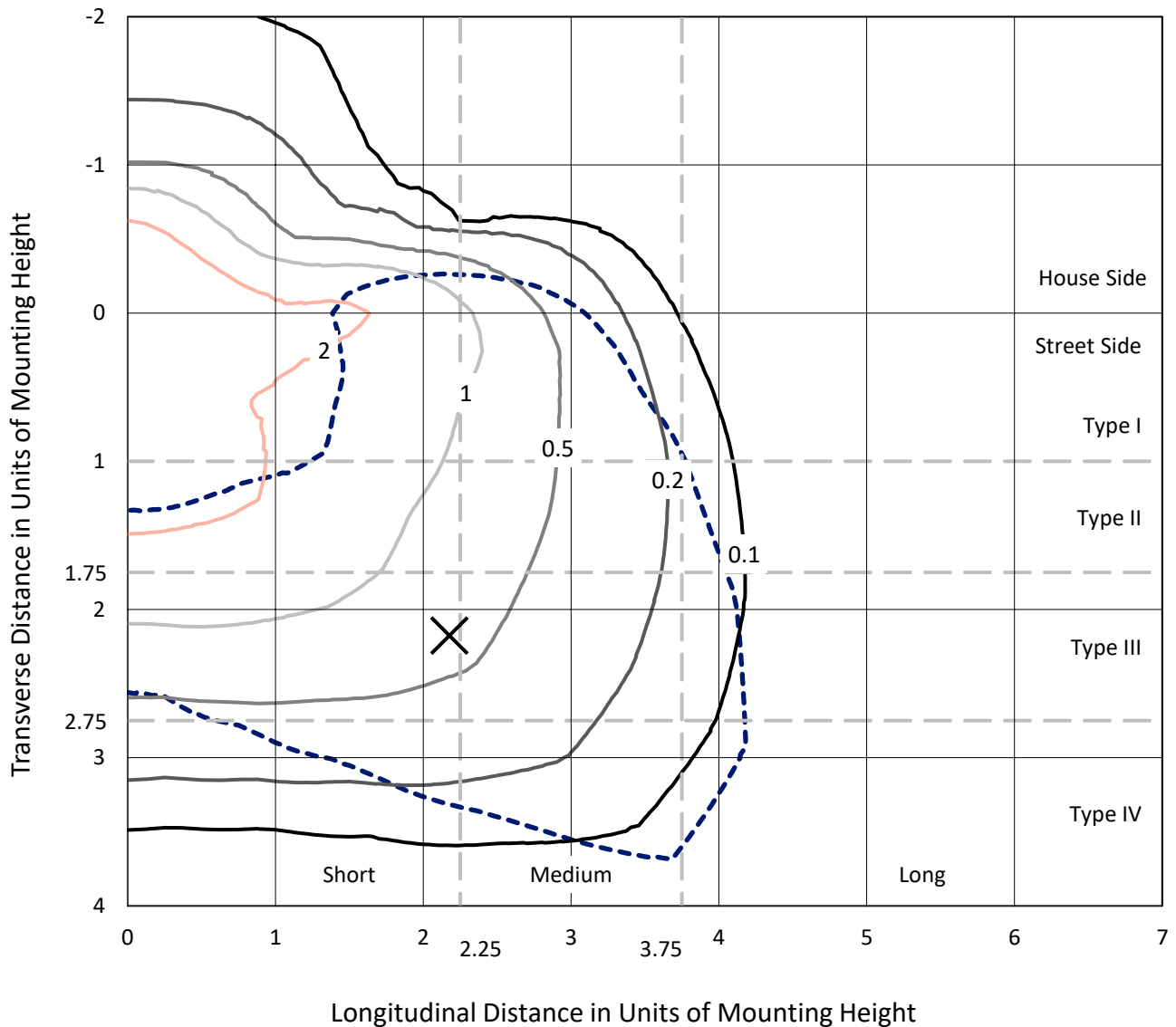
Lumens per Lamp: N/A  
Luminaire Lumens: 12643.2 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4  
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

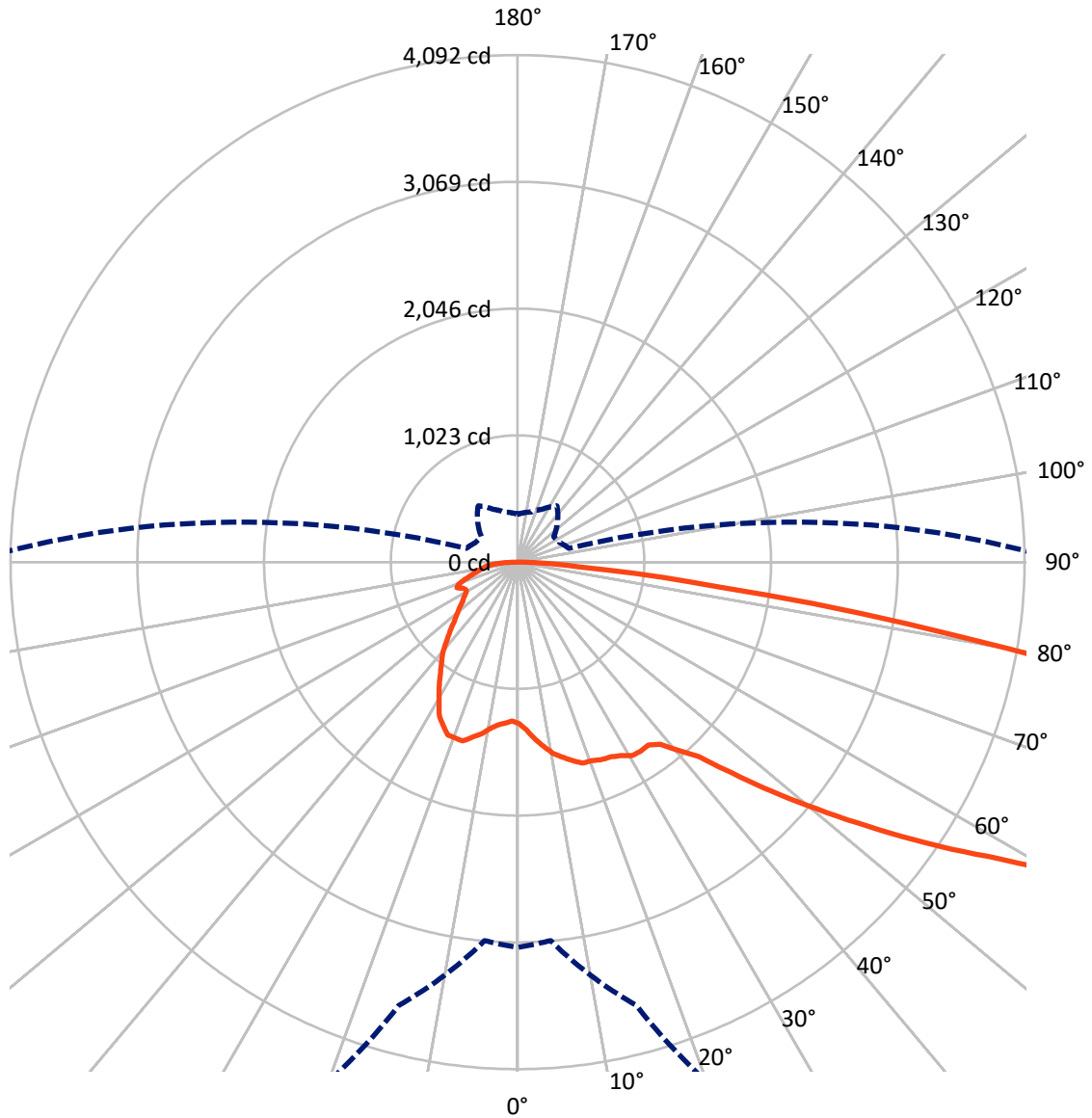
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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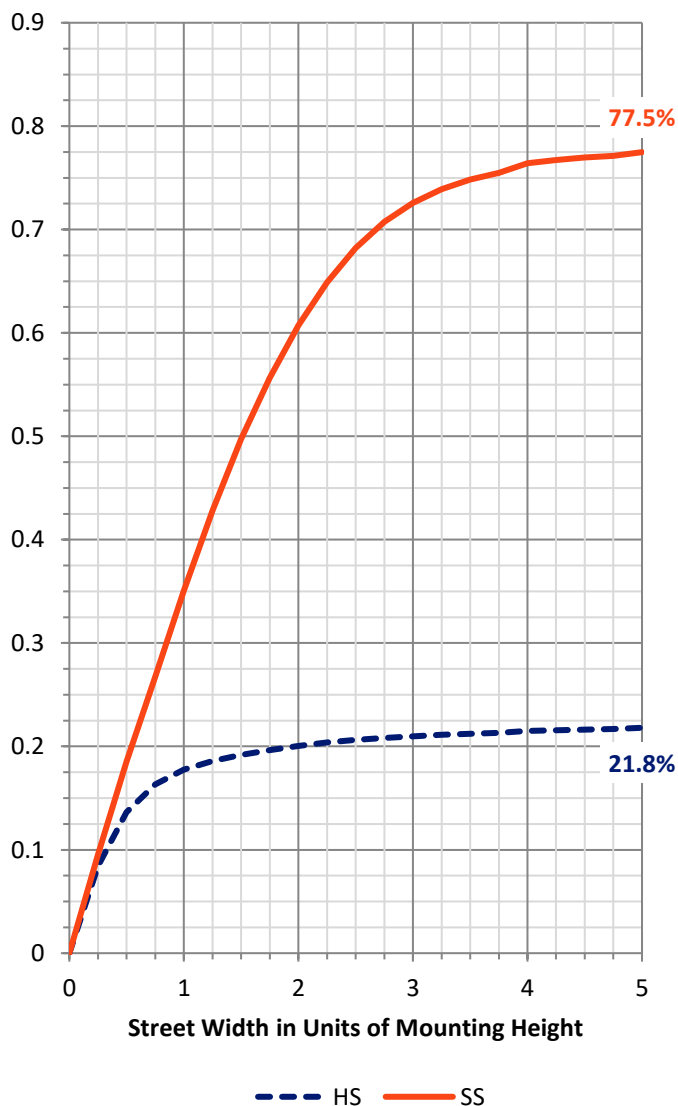
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2814.4	0.0	2814.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	9828.7	0.0	9828.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	12643.2	0.0	12643.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.2	1.1
10°-20°	443.3	3.5
20°-30°	748.6	5.9
30°-40°	1035.9	8.2
40°-50°	1481.7	11.7
50°-60°	2389.9	18.9
60°-70°	3524.7	27.9
70°-80°	2559.6	20.2
80°-90°	326.3	2.6
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°	12643.2	100.0
0°-180°	12643.2	100.0

**Coefficient of Utilization**



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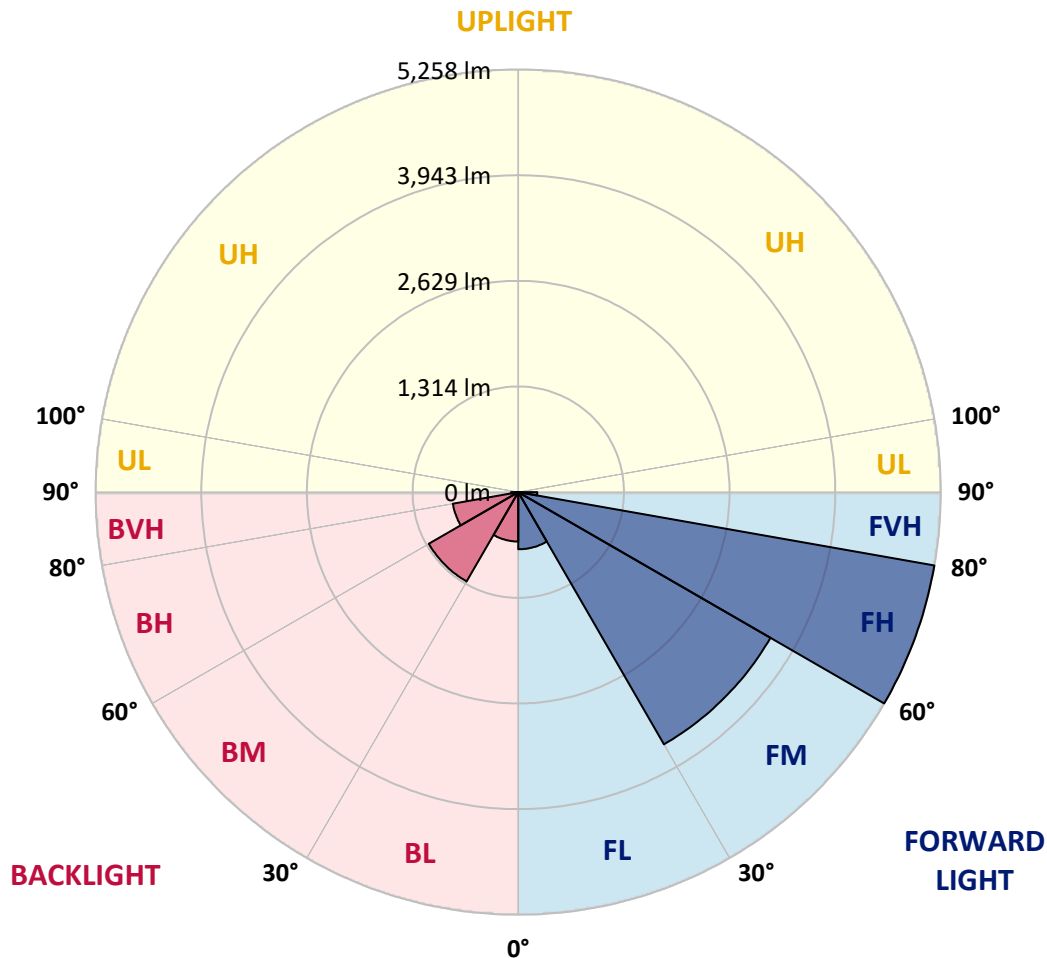
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.6	5.6			
FM (30°-60°)	3623.1	28.7			
FH (60°-80°)	5257.6	41.6			G3/7500
FVH (80°-90°)	237.5	1.9			G3/500
BL (0°-30°)	614.5	4.9	B2/1000		
BM (30°-60°)	1284.4	10.2	B2/2500		
BH (60°-80°)	826.7	6.5	B2/1000		G2/1000
BVH (80°-90°)	88.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0
2.5°	1371.6	1379.7	1371.6	1370.2	1356.6	1347.0	1355.2	1342.9	1329.3	1323.8	1311.6
5°	1497.0	1498.3	1483.3	1484.7	1456.1	1426.1	1431.5	1394.7	1355.2	1340.2	1315.7
7.5°	1625.1	1610.1	1588.3	1581.5	1536.5	1503.8	1499.7	1467.0	1405.6	1371.6	1337.5
10°	1708.3	1713.8	1678.3	1648.3	1610.1	1570.6	1569.2	1507.9	1472.4	1422.0	1378.4
12.5°	1781.9	1783.3	1753.3	1705.6	1657.9	1608.8	1615.6	1588.3	1528.3	1480.6	1437.0
15°	1839.2	1831.0	1798.3	1754.7	1704.2	1666.0	1662.0	1638.8	1588.3	1548.8	1476.5
17.5°	1855.5	1851.5	1818.7	1772.4	1723.3	1694.7	1705.6	1667.4	1647.0	1611.5	1542.0
20°	1824.2	1814.6	1809.2	1757.4	1721.9	1719.2	1709.7	1717.8	1683.8	1651.0	1600.6
22.5°	1766.9	1762.8	1760.1	1719.2	1702.9	1715.1	1731.5	1743.8	1738.3	1706.9	1649.7
25°	1708.3	1727.4	1709.7	1690.6	1713.8	1745.1	1741.0	1780.6	1780.6	1771.0	1723.3
27.5°	1749.2	1736.9	1723.3	1713.8	1721.9	1771.0	1768.3	1816.0	1833.7	1816.0	1761.5
30°	1851.5	1839.2	1799.7	1757.4	1746.5	1799.7	1813.3	1855.5	1863.7	1820.1	1773.7
32.5°	2043.7	2036.9	1974.2	1850.1	1783.3	1813.3	1820.1	1867.8	1861.0	1833.7	1814.6
35°	2328.6	2305.5	2218.2	2008.2	1861.0	1831.0	1813.3	1851.5	1877.4	1863.7	1846.0
37.5°	2640.9	2614.9	2507.2	2241.4	2001.4	1878.7	1865.1	1896.5	1926.4	1919.6	1882.8
40°	2939.4	2939.4	2842.6	2533.1	2210.0	1994.6	1997.3	1961.9	1989.2	1976.9	1983.7
42.5°	3233.9	3223.0	3183.5	2875.4	2433.6	2188.2	2144.6	2056.0	2105.0	2101.0	2110.5
45°	3532.5	3524.3	3513.4	3194.4	2754.0	2450.0	2426.8	2267.3	2312.3	2293.2	2334.1
47.5°	3771.1	3780.6	3780.6	3550.2	3096.2	2799.0	2764.9	2512.7	2598.6	2608.1	2617.7
50°	3974.2	3978.3	3974.2	3889.7	3478.0	3198.5	3128.9	2872.6	2958.5	3033.5	3120.8
52.5°	4255.1	4260.5	4241.5	4208.7	3996.0	3618.4	3540.7	3255.7	3431.6	3510.7	3667.5
55°	4601.4	4560.5	4525.0	4549.6	4493.7	4080.6	4000.1	3651.1	3915.6	4020.6	4334.2
57.5°	4665.5	4700.9	4790.9	4985.9	5066.3	4530.5	4484.1	4136.5	4462.3	4553.7	5077.2
60°	4891.8	4833.2	5054.0	5476.7	5566.6	5116.7	5069.0	4668.2	5006.3	5101.7	5763.0
62.5°	5040.4	5037.7	5364.9	5866.6	6071.1	5724.8	5628.0	5359.4	5593.9	5686.6	6510.1
65°	4996.8	5036.3	5617.1	6095.6	6492.4	6416.0	6360.1	5953.8	6263.3	6255.2	6996.8
67.5°	4598.7	4710.5	5457.6	6260.6	7119.5	7258.6	7240.9	6789.6	6807.3	6634.2	7213.6
70°	4046.5	4008.3	4782.7	6088.8	7433.1	8257.9	8253.9	7411.3	7296.8	6717.3	6591.9
72°	3108.5	3066.2	3702.9	5228.5	7268.1	8657.4	8780.1	7842.1	7291.3	6372.4	5445.3
72.5°	2822.2	2785.4	3419.3	4921.8	7085.4	8761.0	8703.8	7858.5	7234.1	6210.2	5086.7
75°	1299.3	1257.0	1708.3	3013.1	5527.1	7763.0	7958.0	7354.0	6317.9	4943.6	3047.1
77.5°	387.2	374.9	549.4	1216.1	3212.1	5719.3	5794.3	5548.9	4410.5	2707.7	1130.2
80°	215.4	216.8	283.6	455.4	1412.5	3306.2	3576.1	3427.5	2163.7	894.4	376.3
82.5°	120.0	126.8	177.2	269.9	649.0	1517.4	1633.3	1574.7	782.6	419.9	205.9
85°	62.7	65.4	92.7	144.5	368.1	479.9	493.5	529.0	406.3	286.3	110.4
87.5°	24.5	24.5	34.1	60.0	136.3	148.6	133.6	162.2	233.1	185.4	54.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0
2.5°	1322.5	1311.6	1310.2	1292.5	1297.9	1282.9	1284.3	1281.6	1282.9	1280.2	1273.4
5°	1315.7	1307.5	1284.3	1299.3	1285.7	1304.7	1319.7	1314.3	1318.4	1317.0	1318.4
7.5°	1325.2	1314.3	1311.6	1303.4	1315.7	1323.8	1336.1	1370.2	1367.5	1371.6	1379.7
10°	1353.8	1341.6	1333.4	1345.6	1338.8	1364.7	1378.4	1396.1	1427.5	1428.8	1412.5
12.5°	1409.7	1401.5	1385.2	1387.9	1411.1	1419.3	1427.5	1438.4	1458.8	1454.7	1469.7
15°	1473.8	1456.1	1446.5	1443.8	1449.3	1458.8	1457.4	1468.4	1479.3	1488.8	1484.7
17.5°	1520.2	1497.0	1499.7	1513.3	1512.0	1509.3	1491.5	1486.1	1491.5	1497.0	1494.3
20°	1567.9	1570.6	1550.2	1537.9	1532.4	1505.2	1491.5	1475.2	1458.8	1467.0	1479.3
22.5°	1627.9	1615.6	1585.6	1548.8	1521.5	1505.2	1462.9	1434.3	1434.3	1442.4	1438.4
25°	1696.0	1670.1	1618.3	1551.5	1517.4	1447.9	1417.9	1413.8	1402.9	1415.2	1420.6
27.5°	1749.2	1726.0	1655.1	1542.0	1447.9	1392.0	1374.3	1368.8	1386.5	1387.9	1409.7
30°	1771.0	1764.2	1660.6	1517.4	1377.0	1287.0	1276.1	1300.7	1319.7	1348.4	1349.7
32.5°	1799.7	1802.4	1668.8	1460.2	1284.3	1194.3	1178.0	1207.9	1262.5	1285.7	1303.4
35°	1847.4	1861.0	1662.0	1389.3	1186.1	1100.2	1097.5	1105.7	1158.9	1199.8	1222.9
37.5°	1930.5	1927.8	1660.6	1304.7	1108.4	1018.4	996.6	999.4	1034.8	1068.9	1064.8
40°	2042.3	2031.4	1656.5	1194.3	1007.5	948.9	912.1	898.5	895.7	886.2	888.9
42.5°	2195.0	2173.2	1655.1	1082.5	916.2	853.5	827.6	792.1	766.2	717.1	719.9
45°	2407.7	2369.5	1619.7	977.5	826.2	774.4	734.9	709.0	653.1	591.7	591.7
47.5°	2736.3	2612.2	1621.0	861.7	738.9	696.7	669.4	624.4	564.4	515.4	509.9
50°	3220.3	2936.7	1574.7	770.3	668.1	639.4	610.8	559.0	501.7	467.6	471.7
52.5°	3844.7	3420.7	1573.3	688.5	612.2	591.7	560.3	514.0	471.7	449.9	441.7
55°	4589.1	4061.5	1622.4	621.7	554.9	544.0	530.4	492.2	451.3	432.2	430.8
57.5°	5351.2	4687.3	1701.5	574.0	505.8	514.0	504.4	474.5	441.7	419.9	417.2
60°	6028.8	5183.5	1542.0	516.7	462.2	479.9	493.5	467.6	449.9	448.5	439.0
62.5°	6540.1	5396.2	1172.5	473.1	439.0	471.7	508.5	524.9	516.7	527.6	529.0
65°	6726.9	5268.1	807.1	449.9	421.3	490.8	572.6	567.2	519.4	499.0	509.9
67.5°	6465.1	4748.6	598.5	422.6	409.0	530.4	609.4	541.3	469.0	466.3	458.1
70°	5559.8	4024.7	488.1	394.0	388.6	508.5	593.1	501.7	441.7	424.0	415.8
72°	4429.6	3134.4	428.1	373.6	355.8	454.0	554.9	470.4	418.6	396.7	387.2
72.5°	4043.8	2905.3	419.9	364.0	349.0	441.7	535.8	460.8	413.1	394.0	379.0
75°	2218.2	1487.4	369.5	334.0	294.5	381.7	496.3	432.2	389.9	362.7	359.9
77.5°	824.8	576.7	319.0	295.9	255.0	329.9	451.3	410.4	354.5	320.4	313.6
80°	316.3	304.0	260.4	249.5	214.0	289.0	415.8	368.1	301.3	267.2	256.3
82.5°	192.2	177.2	197.7	195.0	163.6	263.1	391.3	344.9	267.2	216.8	210.0
85°	105.0	105.0	137.7	132.2	114.5	210.0	295.9	229.0	169.1	139.1	141.8
87.5°	46.4	54.5	73.6	69.5	62.7	118.6	144.5	121.3	84.5	57.3	61.4
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)