

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: P478854

Luminaire Tested: **IFLD-S-SA2B-730-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478854  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-730-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

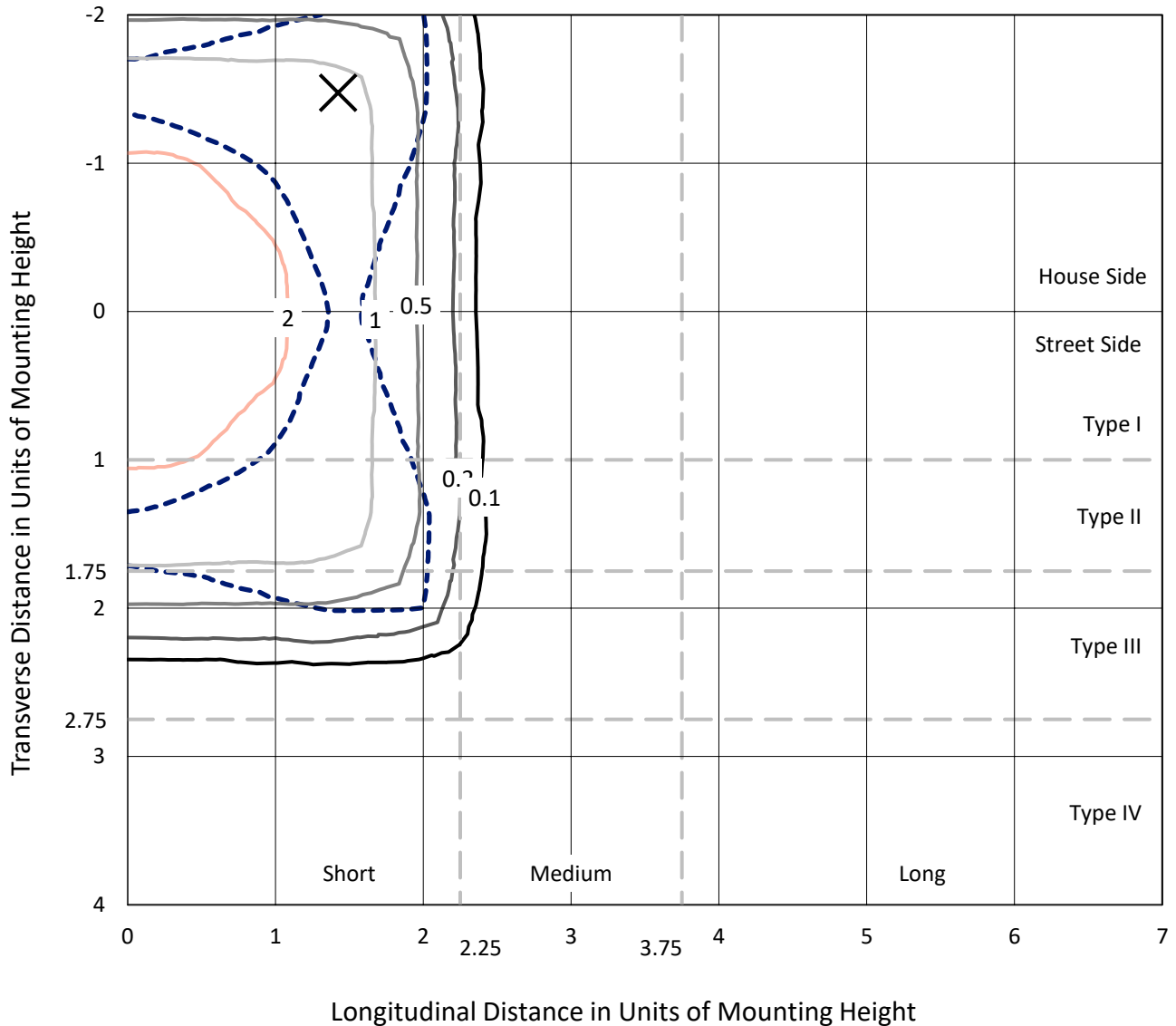
Lumens per Lamp: N/A  
Luminaire Lumens: 10369.7 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 82.4  
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

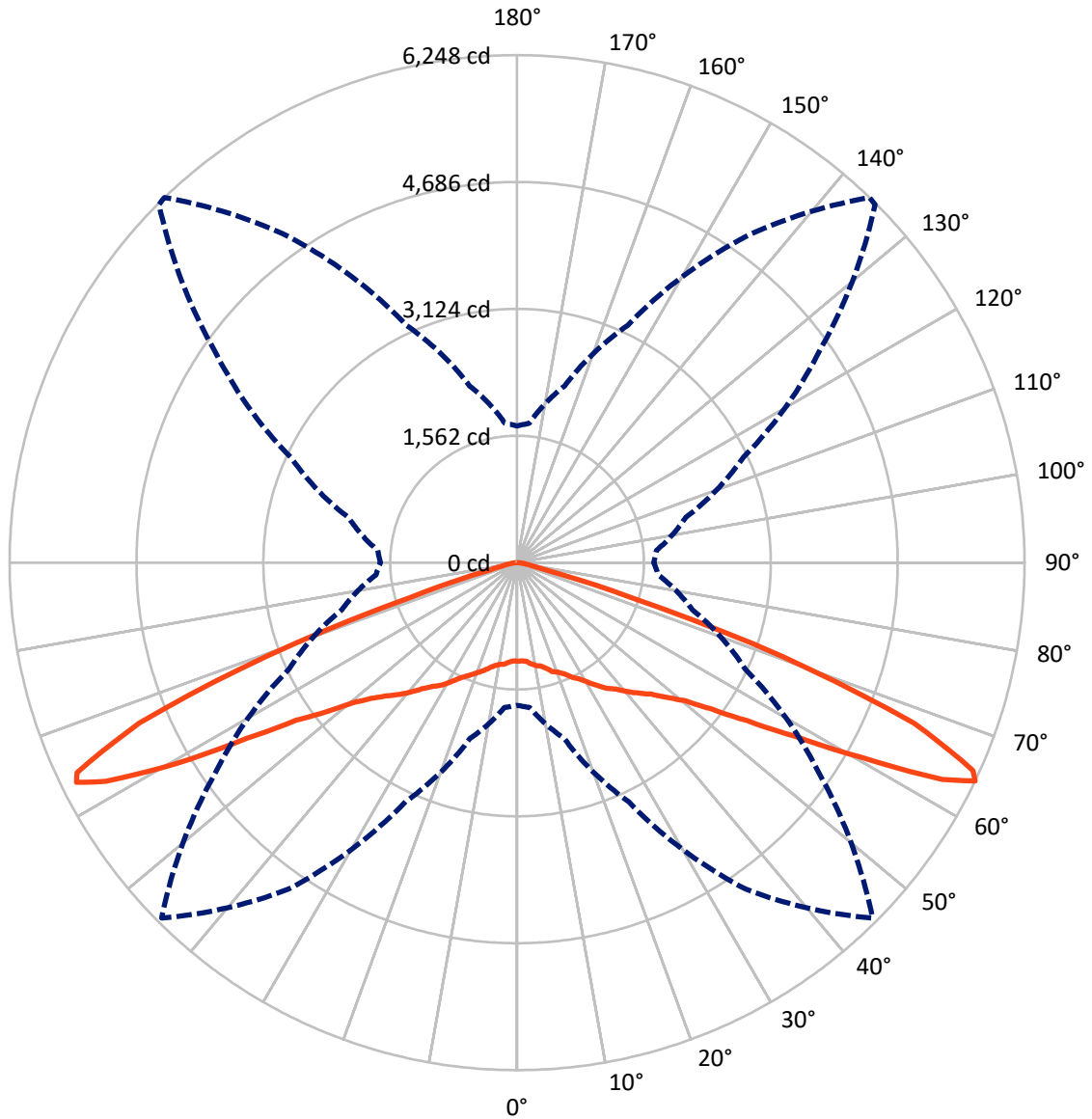
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	5189.8	0.0	5189.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5179.9	0.0	5179.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10369.7	0.0	10369.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	1.2
10°-20°	384.5	3.7
20°-30°	722.6	7.0
30°-40°	1191.7	11.5
40°-50°	1863.7	18.0
50°-60°	3011.3	29.0
60°-70°	2711.5	26.1
70°-80°	321.2	3.1
80°-90°	44.0	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°	10369.7	100.0
0°-180°	10369.7	100.0

**Coefficient of Utilization**



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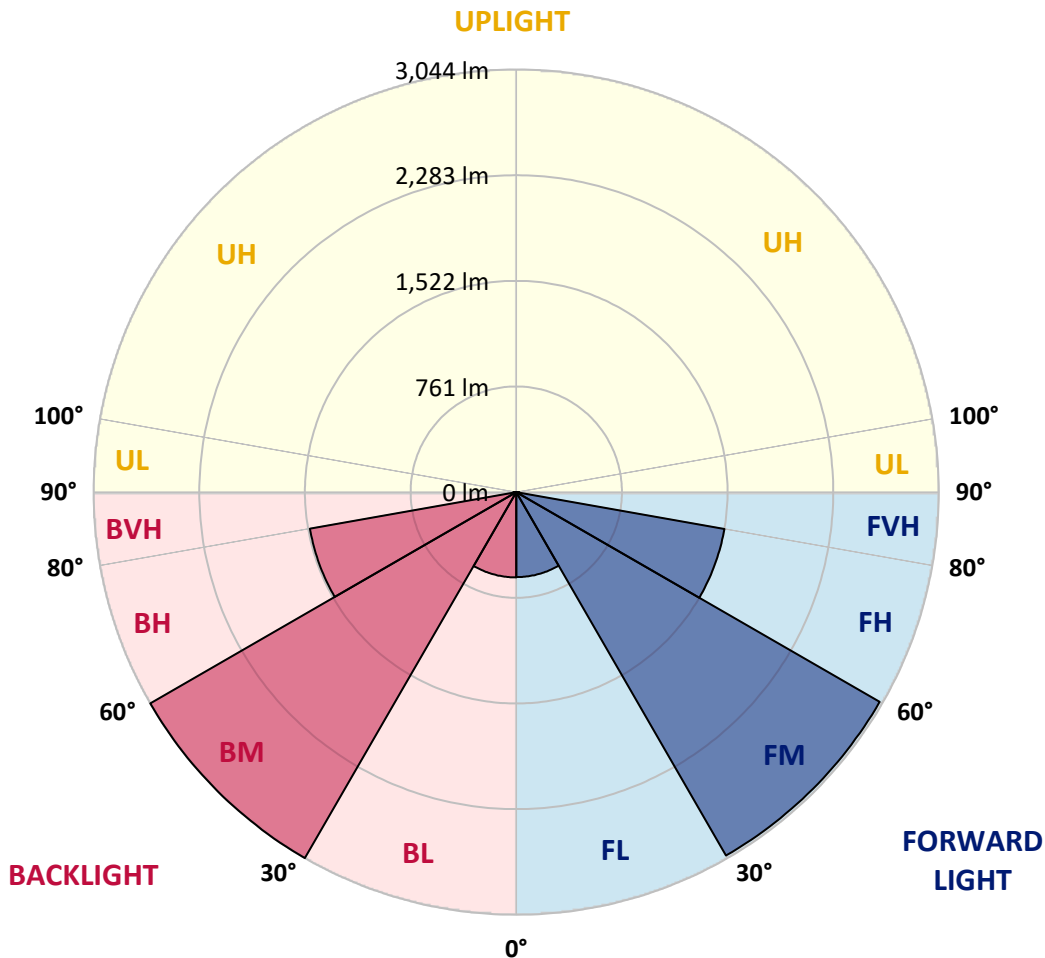
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.0	5.9			
FM (30°-60°)	3022.5	29.1			
FH (60°-80°)	1522.9	14.7			G1/1800
FVH (80°-90°)	22.6	0.2			G1/100
BL (0°-30°)	614.4	5.9	B2/1000		
BM (30°-60°)	3044.3	29.4	B3/5000		
BH (60°-80°)	1509.8	14.6	B3/2500		G1/1800
BVH (80°-90°)	21.4	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°	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1
2.5°	1199.8	1202.2	1223.6	1215.3	1222.4	1209.3	1218.8	1239.1	1215.3	1233.1	1239.1
5°	1212.9	1216.5	1216.5	1224.8	1229.5	1227.2	1233.1	1224.8	1247.4	1237.9	1252.1
7.5°	1260.5	1254.5	1245.0	1252.1	1253.3	1259.3	1265.2	1275.9	1272.3	1264.0	1278.3
10°	1268.8	1264.0	1278.3	1279.5	1273.5	1268.8	1274.7	1274.7	1285.4	1287.8	1287.8
12.5°	1283.0	1287.8	1286.6	1296.1	1297.3	1293.8	1303.3	1321.1	1316.3	1319.9	1311.6
15°	1337.7	1331.8	1330.6	1340.1	1355.6	1333.0	1349.6	1348.4	1343.7	1350.8	1331.8
17.5°	1385.3	1366.3	1374.6	1390.1	1384.1	1388.9	1410.3	1391.3	1396.0	1387.7	1381.7
20°	1426.9	1411.5	1412.7	1418.6	1418.6	1432.9	1441.2	1434.1	1429.3	1428.1	1430.5
22.5°	1473.3	1455.5	1456.7	1481.6	1490.0	1485.2	1479.3	1491.1	1493.5	1484.0	1494.7
25°	1507.8	1526.8	1532.8	1544.7	1526.8	1539.9	1535.1	1557.7	1572.0	1553.0	1566.1
27.5°	1598.2	1589.8	1605.3	1604.1	1618.4	1605.3	1613.6	1620.8	1626.7	1627.9	1621.9
30°	1679.0	1682.6	1667.1	1708.7	1675.5	1696.9	1711.1	1714.7	1721.8	1721.8	1704.0
32.5°	1764.6	1757.5	1782.5	1773.0	1767.0	1783.7	1768.2	1817.0	1788.4	1805.1	1784.9
35°	1861.0	1861.0	1870.5	1896.6	1861.0	1850.3	1878.8	1899.0	1899.0	1869.3	1876.4
37.5°	1969.2	1959.7	1971.5	2004.8	1977.5	1941.8	1994.1	2002.5	1996.5	1988.2	1973.9
40°	2045.3	2042.9	2066.7	2110.7	2071.4	2064.3	2073.8	2096.4	2103.5	2111.9	2092.8
42.5°	2173.7	2184.4	2253.4	2242.7	2210.6	2185.6	2183.2	2267.6	2247.4	2226.0	2215.3
45°	2363.9	2354.4	2390.1	2391.3	2349.7	2295.0	2306.9	2384.2	2418.6	2371.1	2388.9
47.5°	2515.0	2519.7	2544.7	2595.8	2499.5	2442.4	2486.4	2611.3	2600.6	2582.7	2599.4
50°	2717.1	2738.5	2817.0	2799.2	2713.5	2643.4	2739.7	2857.4	2870.5	2805.1	2793.2
52.5°	2996.6	3029.8	3072.7	3086.9	3004.9	2979.9	2985.9	3132.1	3100.0	3037.0	2996.6
55°	3241.5	3257.0	3335.5	3453.2	3447.2	3327.1	3396.1	3450.8	3320.0	3190.4	3201.1
57.5°	3346.2	3353.3	3572.1	3807.5	3947.8	3975.2	3896.7	3712.4	3400.9	3151.1	3135.7
60°	3085.7	3153.5	3417.5	3949.0	4590.0	4906.3	4384.2	3742.1	3211.8	2908.6	2886.0
62.5°	2466.2	2469.8	2862.2	3668.4	4989.5	5818.3	4570.9	3462.7	2707.6	2363.9	2273.6
64°	1756.3	1789.6	2240.3	3247.5	4906.3	6189.3	4548.3	3097.6	2232.0	1744.4	1681.4
65°	1260.5	1306.8	1742.0	2819.4	4711.2	6145.3	4480.6	2783.7	1805.1	1331.8	1267.6
67.5°	463.8	482.8	683.7	1410.3	3383.0	5236.8	3550.7	1530.4	793.1	564.8	507.7
70°	215.2	216.4	253.3	466.1	1479.3	3501.9	1694.5	574.3	298.5	236.6	220.0
72.5°	158.2	161.7	177.2	215.2	435.2	1482.8	556.5	235.4	174.8	154.6	151.0
75°	128.4	130.8	135.6	155.8	201.0	397.2	225.9	162.9	139.1	124.9	120.1
77.5°	98.7	98.7	109.4	118.9	133.2	185.5	149.8	129.6	113.0	98.7	95.1
80°	71.3	72.5	85.6	92.8	90.4	122.5	108.2	107.0	92.8	77.3	71.3
82.5°	41.6	45.2	61.8	66.6	64.2	72.5	78.5	83.2	72.5	53.5	48.8
85°	23.8	25.0	35.7	36.9	36.9	34.5	45.2	49.9	48.8	33.3	29.7
87.5°	7.1	7.1	9.5	9.5	10.7	11.9	17.8	21.4	23.8	16.6	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°	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1
2.5°	1233.1	1215.3	1216.5	1221.2	1205.8	1211.7	1229.5	1216.5	1212.9	1205.8	1202.2
5°	1227.2	1246.2	1239.1	1241.4	1237.9	1221.2	1218.8	1229.5	1235.5	1224.8	1246.2
7.5°	1268.8	1260.5	1250.9	1254.5	1246.2	1260.5	1270.0	1248.6	1259.3	1253.3	1241.4
10°	1292.6	1277.1	1284.2	1281.9	1275.9	1290.2	1280.7	1278.3	1268.8	1255.7	1274.7
12.5°	1300.9	1318.7	1330.6	1310.4	1314.0	1306.8	1300.9	1300.9	1290.2	1286.6	1290.2
15°	1337.7	1353.2	1348.4	1363.9	1343.7	1350.8	1358.0	1340.1	1349.6	1323.5	1343.7
17.5°	1405.5	1392.4	1409.1	1388.9	1396.0	1410.3	1387.7	1387.7	1394.8	1380.6	1362.7
20°	1448.3	1442.4	1436.4	1437.6	1425.7	1438.8	1431.7	1428.1	1417.4	1422.2	1431.7
22.5°	1488.8	1480.4	1482.8	1486.4	1494.7	1488.8	1485.2	1488.8	1462.6	1486.4	1453.1
25°	1538.7	1561.3	1554.2	1569.6	1545.8	1561.3	1560.1	1537.5	1551.8	1542.3	1535.1
27.5°	1621.9	1610.1	1620.8	1601.7	1618.4	1619.6	1605.3	1643.3	1626.7	1624.3	1619.6
30°	1729.0	1720.6	1713.5	1702.8	1715.9	1705.2	1717.1	1720.6	1705.2	1693.3	1670.7
32.5°	1789.6	1812.2	1820.5	1794.4	1795.6	1801.5	1790.8	1780.1	1789.6	1793.2	1789.6
35°	1875.2	1896.6	1901.4	1881.2	1870.5	1900.2	1878.8	1914.5	1883.5	1884.7	1852.6
37.5°	1975.1	1981.1	2021.5	1998.9	1989.4	1975.1	2014.4	2009.6	2016.7	1959.7	1988.2
40°	2088.1	2109.5	2132.1	2075.0	2073.8	2086.9	2084.5	2111.9	2098.8	2090.5	2070.2
42.5°	2211.7	2256.9	2260.5	2222.4	2198.7	2196.3	2208.2	2268.8	2270.0	2215.3	2191.5
45°	2375.8	2425.8	2412.7	2339.0	2312.8	2309.2	2367.5	2393.7	2416.3	2394.9	2374.7
47.5°	2580.4	2613.7	2604.1	2536.4	2451.9	2475.7	2532.8	2614.9	2591.1	2562.5	2538.7
50°	2799.2	2838.4	2818.2	2750.4	2669.5	2669.5	2739.7	2844.3	2837.2	2781.3	2759.9
52.5°	3041.7	3098.8	3145.2	3048.9	2981.1	2991.8	3102.4	3140.4	3122.6	3083.4	3065.5
55°	3222.5	3331.9	3427.0	3431.8	3435.3	3434.1	3462.7	3500.7	3373.5	3310.5	3246.3
57.5°	3178.5	3385.4	3711.2	3932.4	3997.8	4032.3	4022.8	3846.8	3545.9	3339.0	3360.4
60°	2864.6	3202.3	3727.9	4437.8	4913.4	4865.8	4692.2	3996.6	3450.8	3101.2	3057.2
62.5°	2285.5	2692.1	3448.4	4580.4	5890.8	5876.6	4968.1	3650.6	2875.3	2432.9	2405.6
64°	1721.8	2149.9	3076.2	4543.6	6233.3	6247.6	4897.9	3224.9	2249.8	1721.8	1680.2
65°	1317.5	1714.7	2711.2	4467.5	6159.6	6167.9	4702.9	2784.9	1709.9	1222.4	1177.2
67.5°	524.4	730.1	1470.9	3387.8	5289.2	5266.6	3355.7	1347.3	654.0	425.7	417.4
70°	223.6	278.3	516.1	1605.3	3541.2	3475.8	1444.8	437.6	242.6	203.3	202.1
72.5°	153.4	170.0	221.2	495.9	1472.1	1437.6	411.4	203.3	165.3	152.2	152.2
75°	123.7	135.6	160.5	208.1	390.0	375.8	193.8	149.8	132.0	122.5	121.3
77.5°	96.3	108.2	126.0	143.9	178.4	177.2	129.6	113.0	102.3	95.1	92.8
80°	76.1	88.0	99.9	102.3	116.5	114.2	88.0	89.2	83.2	69.0	67.8
82.5°	52.3	71.3	79.7	72.5	69.0	69.0	63.0	63.0	58.3	42.8	39.2
85°	32.1	47.6	49.9	42.8	32.1	32.1	34.5	33.3	30.9	22.6	21.4
87.5°	16.6	22.6	20.2	16.6	10.7	10.7	9.5	7.1	7.1	5.9	5.9
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)