

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: P481116

Luminaire Tested: **IFLD-S-SA2B-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481116
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

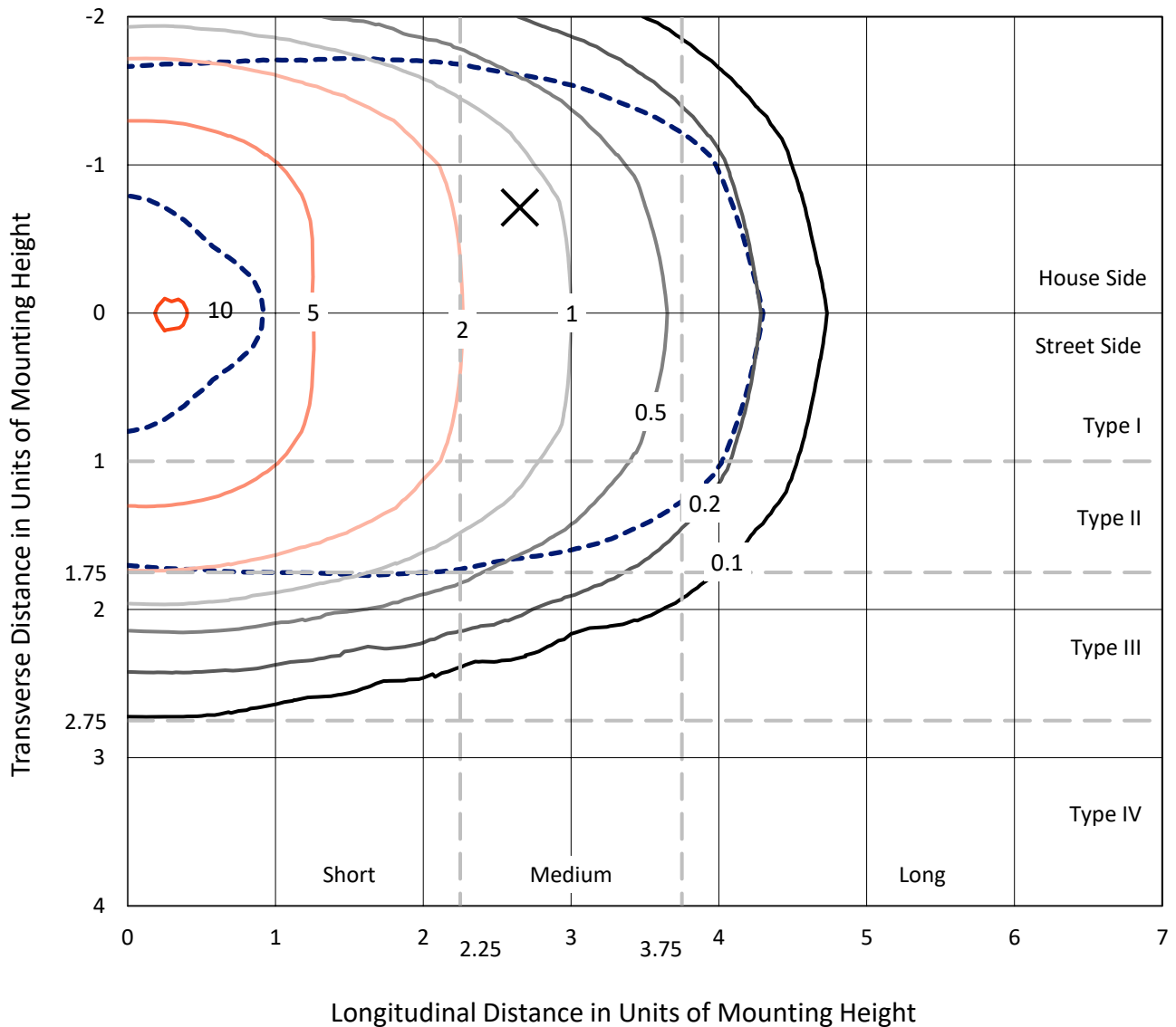
Lumens per Lamp: N/A
Luminaire Lumens: 8662.9 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

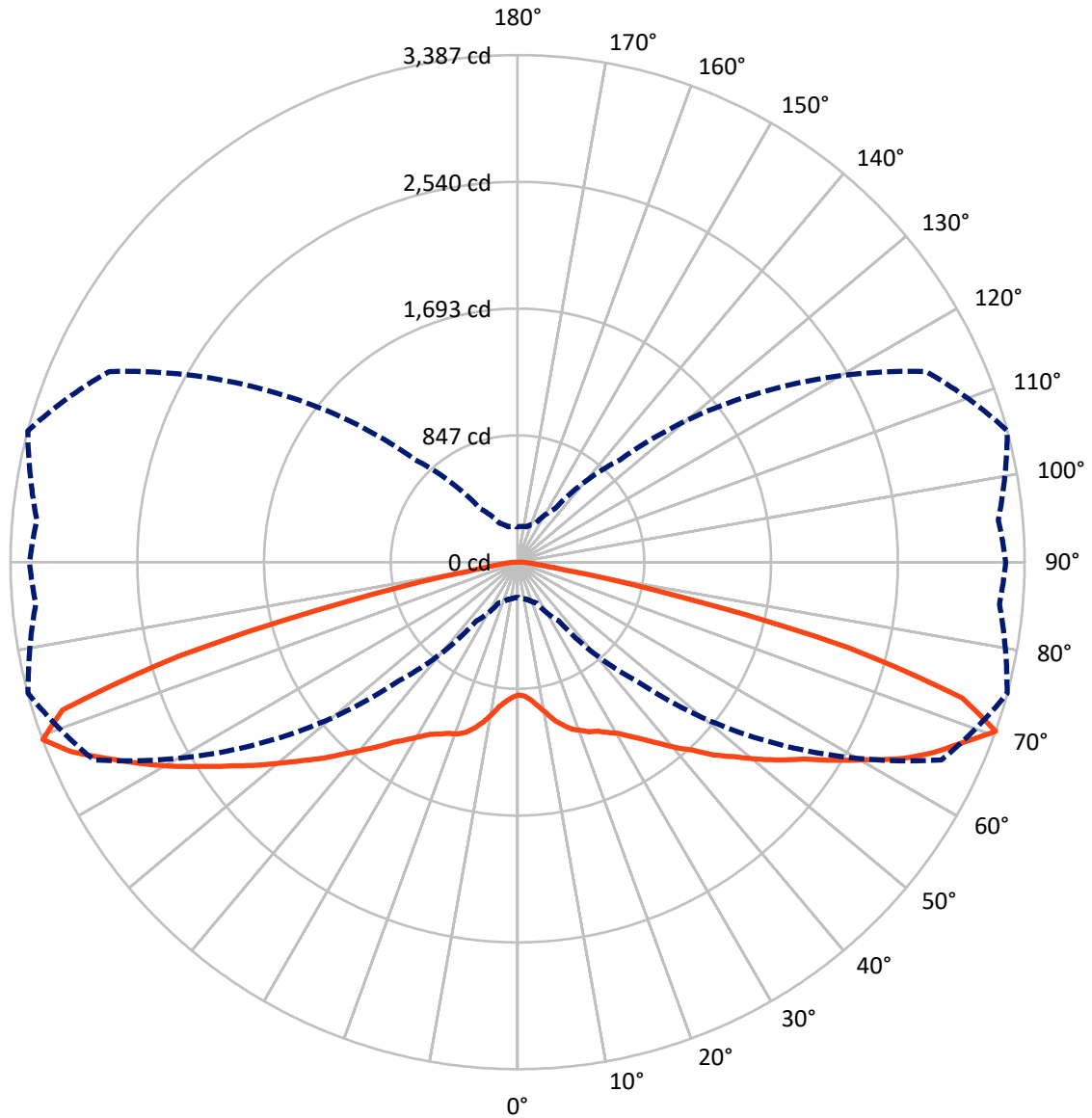
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4300.6	0.0	4300.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	4362.3	0.0	4362.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	8662.9	0.0	8662.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.0
10°-20°	300.6	3.5
20°-30°	582.1	6.7
30°-40°	984.6	11.4
40°-50°	1570.8	18.1
50°-60°	2150.0	24.8
60°-70°	2026.5	23.4
70°-80°	892.8	10.3
80°-90°	67.2	0.8
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°	8662.9	100.0
0°-180°	8662.9	100.0

Coefficient of Utilization



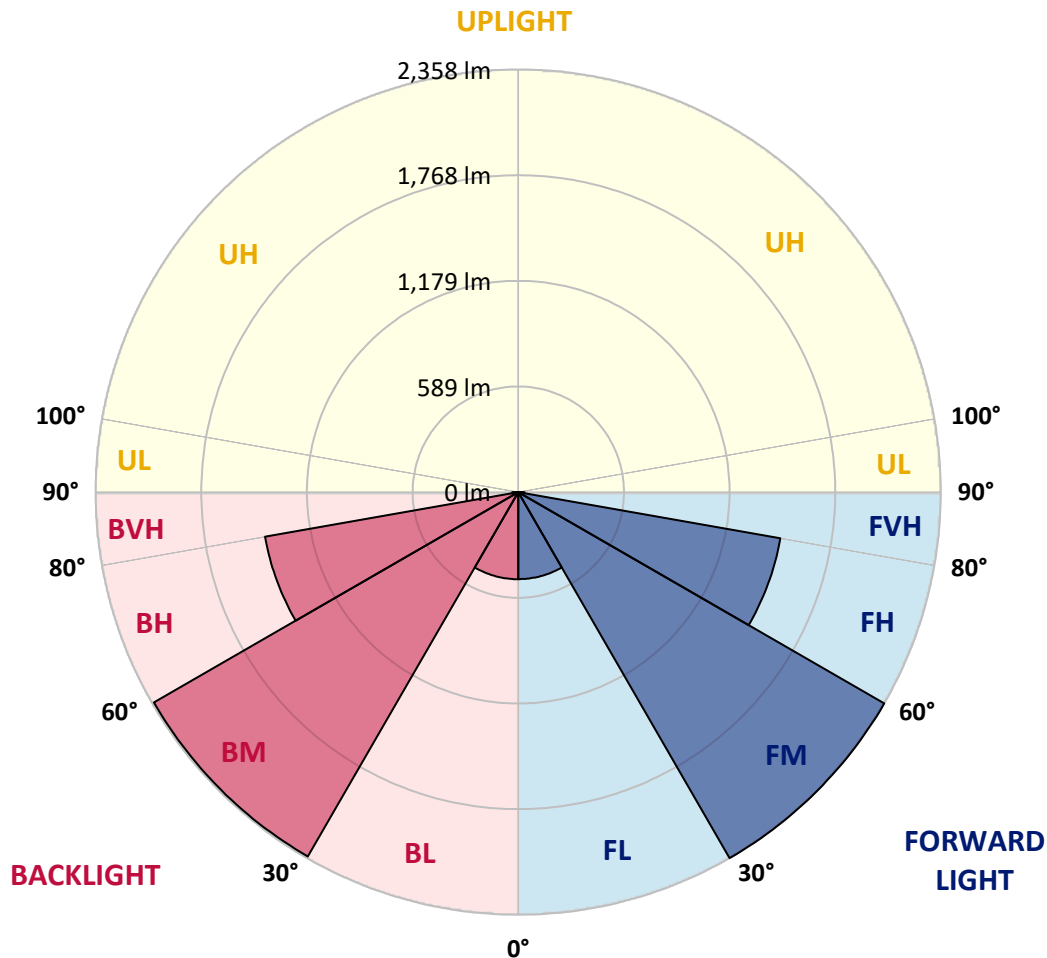
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.3	5.6			
FM (30°-60°)	2358.0	27.2			
FH (60°-80°)	1484.7	17.1			G1/1800
FVH (80°-90°)	34.3	0.4			G1/100
BL (0°-30°)	485.8	5.6	B1/500		
BM (30°-60°)	2347.4	27.1	B2/2500		
BH (60°-80°)	1434.6	16.6	B3/2500		G3/2500
BVH (80°-90°)	32.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1
2.5°	881.5	881.5	880.5	885.2	889.9	891.7	895.5	896.4	902.0	897.3	906.7
5°	878.7	877.7	885.2	896.4	896.4	908.5	916.0	926.3	929.1	934.7	936.6
7.5°	898.3	896.4	892.7	904.8	915.1	933.8	944.0	961.8	968.3	975.8	984.2
10°	910.4	910.4	906.7	928.2	937.5	962.7	985.1	1002.9	1028.1	1036.5	1037.4
12.5°	912.3	915.1	926.3	954.3	980.4	1013.1	1029.9	1063.5	1088.8	1104.6	1110.2
15°	940.3	934.7	946.8	985.1	1023.4	1052.3	1082.2	1106.5	1142.9	1163.5	1176.5
17.5°	965.5	959.9	982.3	1028.1	1067.3	1112.1	1138.2	1164.4	1190.5	1209.2	1210.1
20°	1005.7	1010.3	1029.9	1079.4	1130.8	1170.0	1199.9	1204.5	1217.6	1244.7	1240.0
22.5°	1055.1	1051.4	1092.5	1146.7	1202.7	1235.4	1252.2	1240.0	1233.5	1262.4	1269.0
25°	1104.6	1115.8	1153.2	1203.6	1270.8	1314.7	1319.4	1285.8	1261.5	1271.8	1269.0
27.5°	1180.3	1182.1	1221.4	1281.1	1349.3	1387.6	1384.8	1337.1	1290.5	1291.4	1293.3
30°	1277.4	1268.0	1311.0	1365.2	1432.4	1466.9	1471.6	1403.4	1340.9	1322.2	1326.9
32.5°	1370.8	1382.0	1419.3	1480.9	1530.4	1550.0	1539.8	1479.1	1397.8	1372.6	1375.4
35°	1490.3	1488.4	1539.8	1592.1	1629.4	1633.1	1624.7	1536.0	1459.5	1426.8	1413.7
37.5°	1618.2	1635.0	1668.6	1711.6	1750.8	1752.7	1706.9	1635.9	1541.6	1487.5	1503.3
40°	1761.1	1779.7	1804.0	1866.6	1895.5	1865.6	1819.0	1722.8	1624.7	1577.1	1584.6
42.5°	1887.1	1895.5	1945.0	2018.8	2032.8	2019.7	1950.6	1833.9	1720.0	1667.7	1671.4
45°	2002.9	2014.1	2078.5	2144.8	2177.5	2155.1	2074.8	1963.7	1831.1	1786.3	1768.5
47.5°	2109.4	2131.8	2194.3	2262.5	2312.9	2314.8	2215.8	2081.3	1941.3	1882.5	1881.5
50°	2181.3	2213.9	2275.6	2353.1	2426.8	2455.8	2356.8	2212.1	2061.7	1999.2	1992.6
52.5°	2220.5	2254.1	2315.7	2436.2	2518.3	2563.2	2516.5	2334.4	2202.7	2137.4	2127.1
55°	2172.9	2195.3	2296.1	2465.1	2592.1	2665.9	2635.1	2503.4	2342.8	2289.6	2298.9
57.5°	1970.2	2016.9	2141.1	2352.1	2590.2	2771.4	2768.6	2663.1	2504.3	2453.9	2455.8
60°	1621.9	1661.2	1814.3	2109.4	2485.7	2814.3	2913.3	2818.1	2685.5	2626.7	2624.8
62.5°	1144.8	1194.3	1371.7	1693.8	2177.5	2754.6	3079.5	3013.2	2862.9	2819.9	2835.8
65°	640.6	670.4	834.8	1126.1	1659.3	2425.9	3109.4	3215.9	3043.1	2977.8	2980.6
67.5°	342.7	353.9	430.5	591.1	1015.0	1870.3	2807.8	3332.6	3238.3	3125.3	3107.5
70°	235.3	239.0	258.7	302.5	480.0	1118.6	2117.8	3124.4	3384.9	3230.8	3260.7
72.5°	198.9	197.0	201.7	206.4	251.2	500.5	1242.8	2404.4	3195.3	3137.4	3126.2
75°	172.7	171.8	173.7	169.0	174.6	220.4	550.0	1498.7	2339.1	2610.8	2652.8
77.5°	142.9	143.8	144.7	140.1	138.2	145.7	221.3	658.3	1151.3	1270.8	1370.8
80°	108.3	110.2	117.7	113.0	105.5	106.4	130.7	220.4	330.6	299.7	309.1
82.5°	73.8	74.7	90.6	85.0	79.4	71.9	84.0	113.9	128.9	98.0	85.9
85°	52.3	51.4	58.8	54.2	50.4	36.4	50.4	64.4	77.5	48.6	43.9
87.5°	12.1	12.1	24.3	19.6	18.7	14.9	19.6	25.2	33.6	21.5	19.6
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°	145°	155°	165°	175°	180°
0°	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1
2.5°	903.9	895.5	895.5	893.6	886.1	884.3	877.7	879.6	874.9	870.3
5°	935.6	924.4	924.4	908.5	893.6	891.7	884.3	884.3	876.8	878.7
7.5°	979.5	969.2	952.4	938.4	917.9	909.5	895.5	893.6	891.7	888.0
10°	1031.8	1018.7	1001.9	973.0	956.2	940.3	926.3	906.7	902.0	902.9
12.5°	1102.8	1082.2	1045.8	1020.6	999.1	978.6	958.0	929.1	922.6	925.4
15°	1153.2	1127.0	1090.6	1081.3	1052.3	1027.1	993.5	960.8	949.6	946.8
17.5°	1194.3	1172.8	1151.3	1137.3	1114.0	1083.2	1036.5	999.1	973.9	971.1
20°	1227.9	1199.9	1195.2	1203.6	1174.7	1154.1	1097.2	1051.4	1017.8	1003.8
22.5°	1248.4	1230.7	1243.8	1251.2	1249.4	1214.8	1156.0	1102.8	1060.7	1047.7
25°	1270.8	1250.3	1297.0	1322.2	1328.7	1271.8	1226.0	1156.0	1114.9	1106.5
27.5°	1282.0	1289.5	1343.7	1396.9	1392.2	1348.3	1286.7	1224.2	1191.5	1176.5
30°	1314.7	1326.9	1409.0	1468.8	1469.7	1426.8	1380.1	1309.1	1272.7	1266.2
32.5°	1373.6	1388.5	1476.3	1539.8	1551.0	1518.3	1471.6	1427.7	1390.4	1375.4
35°	1418.4	1456.7	1555.6	1613.5	1643.4	1623.8	1597.7	1551.9	1512.7	1499.6
37.5°	1482.8	1536.0	1631.3	1709.7	1743.3	1741.5	1721.8	1672.4	1639.7	1628.5
40°	1575.2	1628.5	1715.3	1819.0	1881.5	1878.7	1867.5	1829.2	1780.7	1775.1
42.5°	1673.3	1717.2	1830.2	1948.8	2038.4	2029.1	1999.2	1954.4	1920.7	1913.3
45°	1768.5	1836.7	1941.3	2093.5	2160.7	2184.1	2148.6	2072.0	2033.7	2029.1
47.5°	1888.1	1942.2	2072.9	2209.3	2309.2	2312.9	2252.2	2181.3	2111.2	2126.2
50°	1994.5	2066.4	2199.0	2348.4	2467.9	2425.0	2347.5	2258.8	2208.3	2188.7
52.5°	2108.4	2196.2	2350.3	2502.5	2568.8	2525.8	2399.8	2300.8	2224.2	2215.8
55°	2274.6	2320.4	2522.1	2638.8	2660.3	2569.7	2383.9	2243.8	2144.8	2120.6
57.5°	2443.6	2496.9	2673.3	2774.2	2751.8	2545.4	2281.2	2064.5	1934.7	1900.2
60°	2614.5	2679.9	2828.4	2920.8	2805.0	2378.3	1990.8	1711.6	1560.3	1529.5
62.5°	2805.0	2890.0	3022.6	3055.3	2647.2	2047.7	1579.9	1235.4	1082.2	1030.9
65°	2974.0	3060.9	3224.3	3027.2	2312.0	1527.6	1021.5	705.9	592.9	551.9
67.5°	3113.1	3211.2	3291.5	2678.9	1692.9	894.5	532.2	371.6	329.6	314.7
70°	3223.3	3386.7	3011.4	1969.3	967.4	436.1	287.6	244.6	239.0	235.3
72.5°	3127.2	3105.7	2248.5	1136.4	423.9	240.0	208.2	201.7	200.8	201.7
75°	2557.6	2281.2	1344.6	494.0	212.9	173.7	172.7	169.9	174.6	174.6
77.5°	1241.0	1085.0	562.1	212.0	140.1	136.3	141.0	141.0	141.0	141.0
80°	287.6	318.4	200.8	128.9	101.8	101.8	112.1	113.0	108.3	106.4
82.5°	98.0	130.7	110.2	81.2	67.2	75.6	85.0	86.8	71.9	72.8
85°	48.6	76.6	59.8	46.7	34.5	46.7	55.1	57.9	49.5	47.6
87.5°	22.4	33.6	22.4	15.9	12.1	16.8	15.9	13.1	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)