

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: P481311

Luminaire Tested: **IFLD-S-SA2B-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481311
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

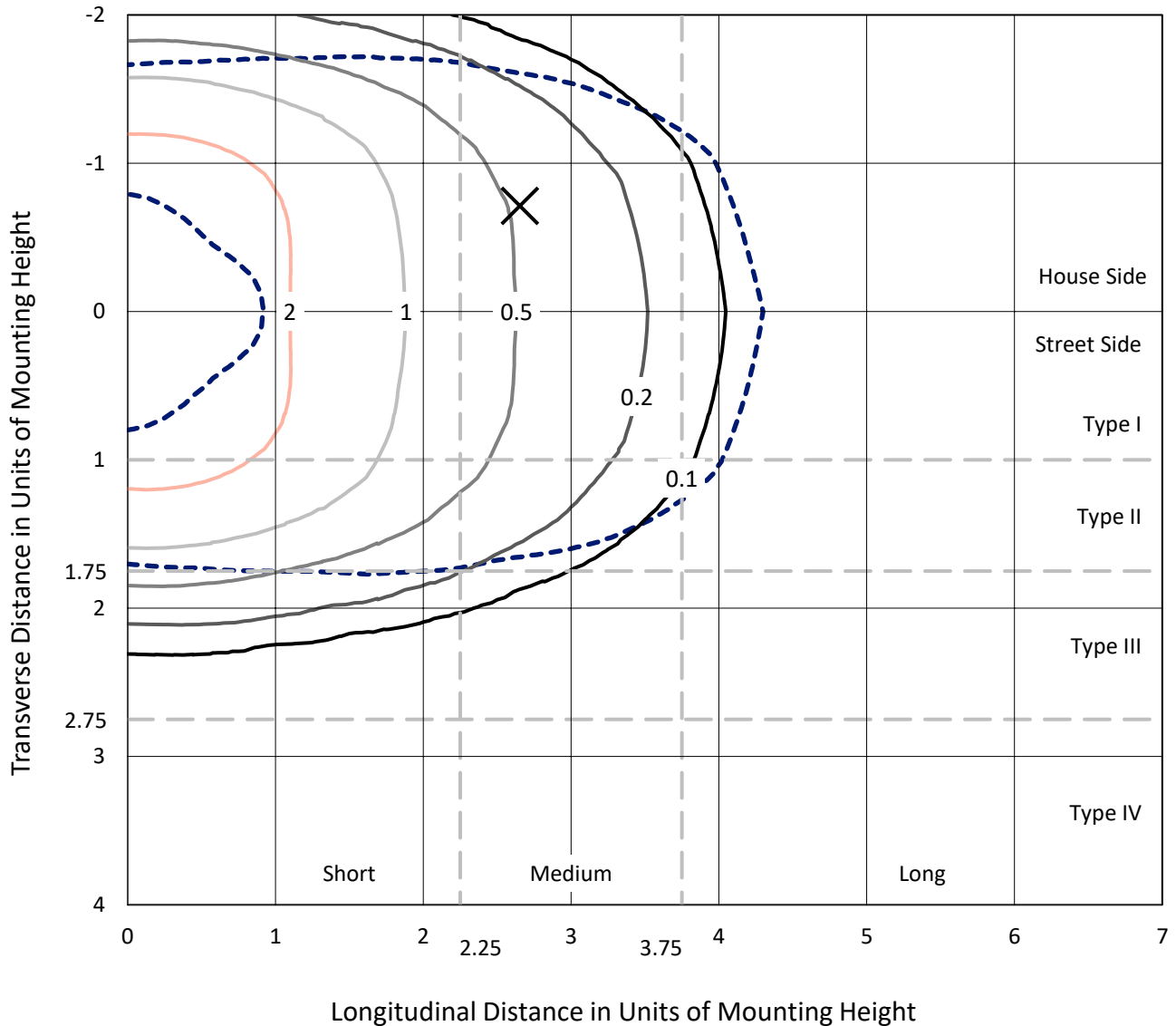
Lumens per Lamp: N/A
Luminaire Lumens: 12029.9 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

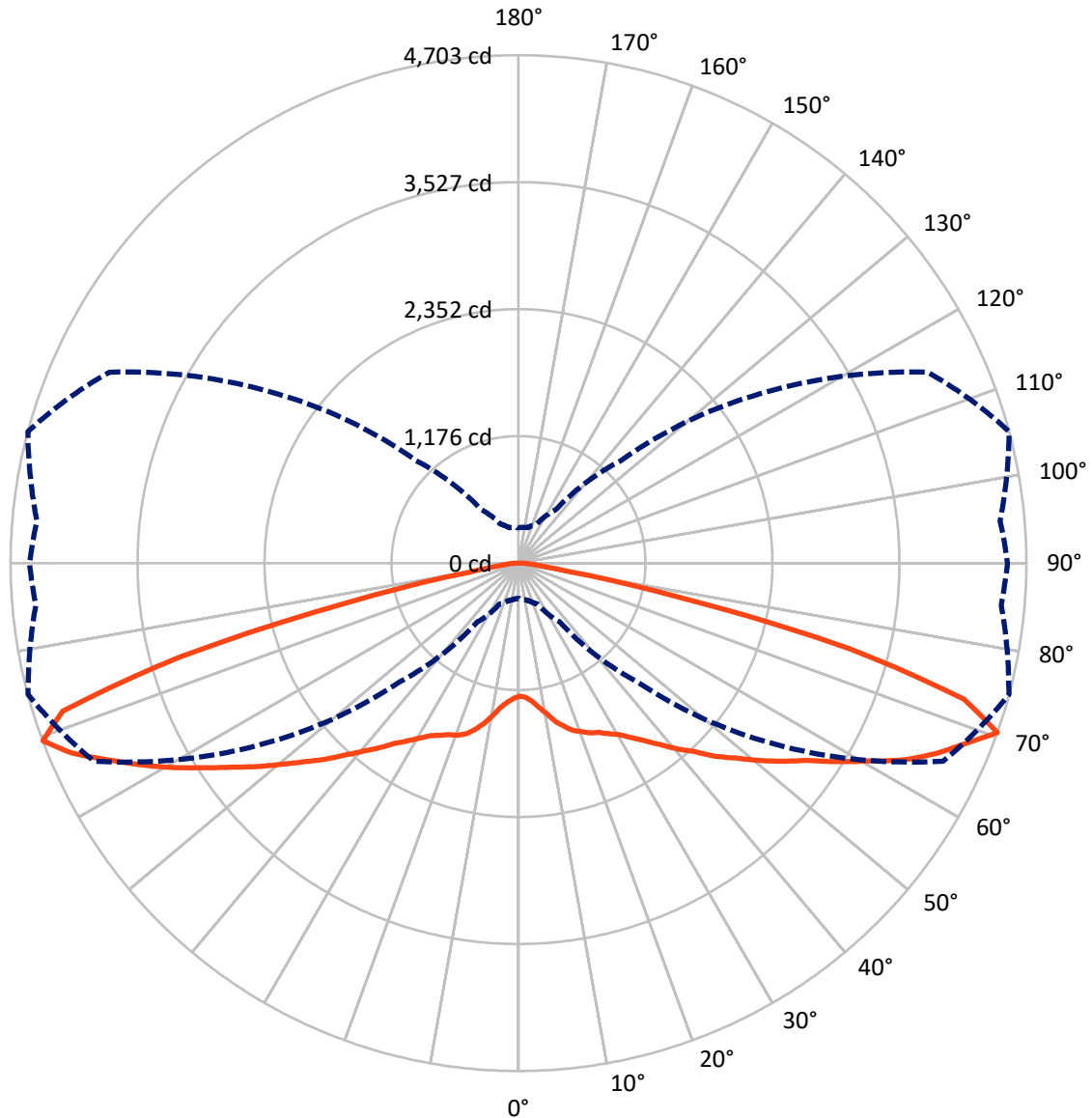
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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	5972.2	0.0	5972.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	6057.8	0.0	6057.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	12029.9	0.0	12029.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	1.0
10°-20°	417.5	3.5
20°-30°	808.4	6.7
30°-40°	1367.3	11.4
40°-50°	2181.3	18.1
50°-60°	2985.7	24.8
60°-70°	2814.2	23.4
70°-80°	1239.7	10.3
80°-90°	93.3	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°	12029.9	100.0
0°-180°	12029.9	100.0

Coefficient of Utilization



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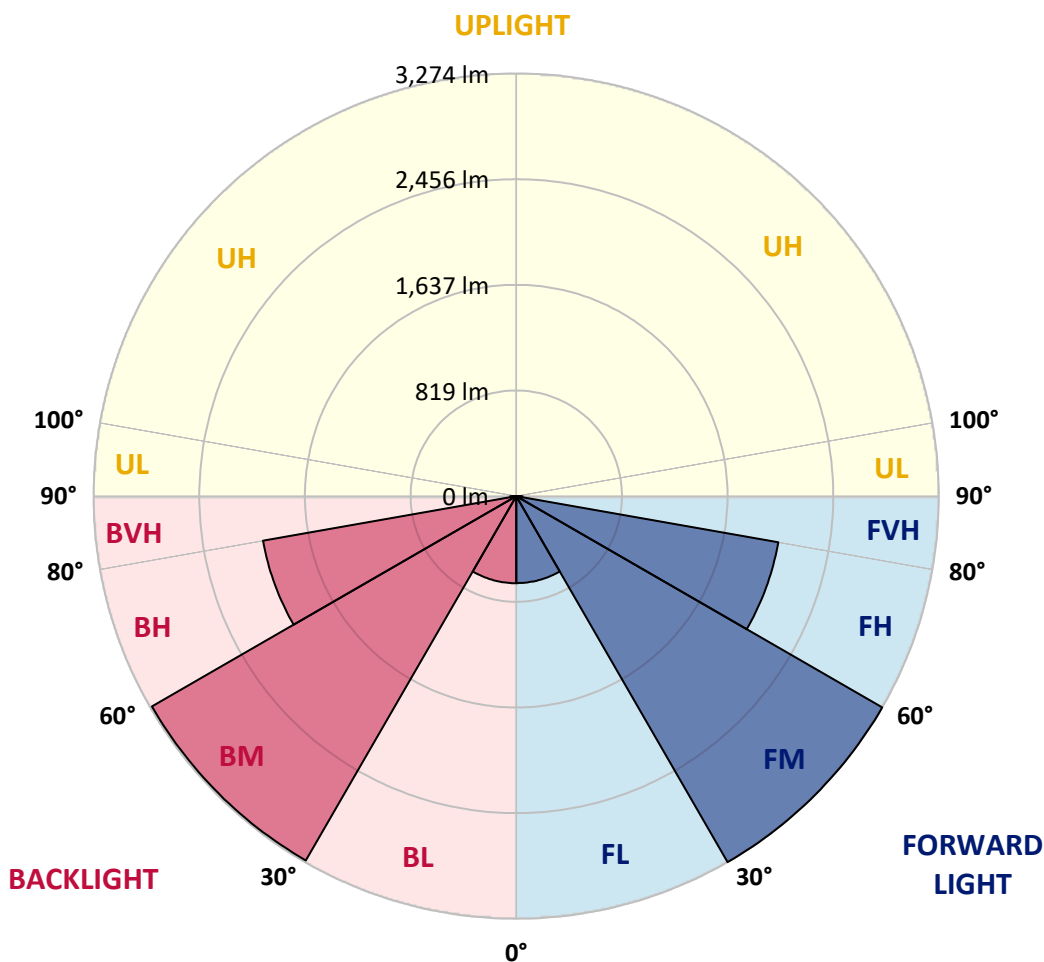
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.9	5.6			
FM (30°-60°)	3274.4	27.2			
FH (60°-80°)	2061.8	17.1			G2/5000
FVH (80°-90°)	47.6	0.4			G1/100
BL (0°-30°)	674.6	5.6	B2/1000		
BM (30°-60°)	3259.8	27.1	B3/5000		
BH (60°-80°)	1992.1	16.6	B3/2500		G3/2500
BVH (80°-90°)	45.6	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°	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9
2.5°	1224.1	1224.1	1222.8	1229.3	1235.7	1238.3	1243.5	1244.8	1252.6	1246.1	1259.1
5°	1220.2	1218.9	1229.3	1244.8	1244.8	1261.7	1272.1	1286.3	1290.2	1298.0	1300.6
7.5°	1247.4	1244.8	1239.6	1256.5	1270.8	1296.7	1311.0	1335.6	1344.7	1355.0	1366.7
10°	1264.3	1264.3	1259.1	1288.9	1301.9	1336.9	1368.0	1392.6	1427.7	1439.3	1440.6
12.5°	1266.9	1270.8	1286.3	1325.2	1361.5	1406.9	1430.2	1476.9	1511.9	1534.0	1541.8
15°	1305.8	1298.0	1314.8	1368.0	1421.2	1461.4	1502.9	1536.6	1587.1	1615.7	1633.8
17.5°	1340.8	1333.0	1364.1	1427.7	1482.1	1544.4	1580.7	1617.0	1653.3	1679.2	1680.5
20°	1396.5	1403.0	1430.2	1499.0	1570.3	1624.7	1666.2	1672.7	1690.9	1728.5	1722.0
22.5°	1465.3	1460.1	1517.1	1592.3	1670.1	1715.5	1738.9	1722.0	1712.9	1753.1	1762.2
25°	1534.0	1549.5	1601.4	1671.4	1764.8	1825.7	1832.2	1785.5	1751.8	1766.1	1762.2
27.5°	1639.0	1641.6	1696.1	1779.1	1873.7	1926.9	1923.0	1856.9	1792.0	1793.3	1795.9
30°	1773.9	1760.9	1820.5	1895.8	1989.1	2037.1	2043.6	1948.9	1862.0	1836.1	1842.6
32.5°	1903.5	1919.1	1971.0	2056.5	2125.3	2152.5	2138.2	2054.0	1941.1	1906.1	1910.0
35°	2069.5	2066.9	2138.2	2210.9	2262.7	2267.9	2256.2	2133.1	2026.7	1981.3	1963.2
37.5°	2247.2	2270.5	2317.2	2376.8	2431.3	2433.9	2370.3	2271.8	2140.8	2065.6	2087.7
40°	2445.6	2471.5	2505.2	2592.1	2632.3	2590.8	2525.9	2392.4	2256.2	2190.1	2200.5
42.5°	2620.6	2632.3	2701.0	2803.4	2822.9	2804.7	2708.8	2546.7	2388.5	2315.9	2321.1
45°	2781.4	2797.0	2886.4	2978.5	3023.9	2992.8	2881.2	2726.9	2542.8	2480.6	2455.9
47.5°	2929.2	2960.3	3047.2	3141.9	3211.9	3214.5	3077.0	2890.3	2695.8	2614.1	2612.8
50°	3029.1	3074.4	3160.0	3267.7	3370.1	3410.3	3272.8	3071.9	2863.1	2776.2	2767.1
52.5°	3083.5	3130.2	3215.8	3383.1	3497.2	3559.4	3494.6	3241.7	3058.9	2968.1	2953.9
55°	3017.4	3048.5	3188.6	3423.3	3599.6	3702.0	3659.3	3476.4	3253.4	3179.5	3192.4
57.5°	2736.0	2800.8	2973.3	3266.4	3597.0	3848.6	3844.7	3698.2	3477.7	3407.7	3410.3
60°	2252.3	2306.8	2519.5	2929.2	3451.8	3908.2	4045.7	3913.4	3729.3	3647.6	3645.0
62.5°	1589.7	1658.5	1904.8	2352.2	3023.9	3825.2	4276.5	4184.4	3975.6	3916.0	3938.0
65°	889.5	931.0	1159.2	1563.8	2304.2	3368.8	4318.0	4465.8	4225.9	4135.1	4139.0
67.5°	475.9	491.4	597.8	820.8	1409.5	2597.3	3899.1	4627.9	4496.9	4340.0	4315.4
70°	326.8	332.0	359.2	420.1	666.5	1553.4	2940.9	4338.7	4700.5	4486.5	4528.0
72.5°	276.2	273.6	280.1	286.6	348.8	695.0	1725.9	3339.0	4437.3	4356.9	4341.3
75°	239.9	238.6	241.2	234.7	242.5	306.0	763.7	2081.2	3248.2	3625.5	3683.9
77.5°	198.4	199.7	201.0	194.5	191.9	202.3	307.3	914.2	1598.8	1764.8	1903.5
80°	150.4	153.0	163.4	156.9	146.5	147.8	181.5	306.0	459.0	416.2	429.2
82.5°	102.4	103.7	125.8	118.0	110.2	99.8	116.7	158.2	178.9	136.2	119.3
85°	72.6	71.3	81.7	75.2	70.0	50.6	70.0	89.5	107.6	67.4	60.9
87.5°	16.9	16.9	33.7	27.2	25.9	20.7	27.2	35.0	46.7	29.8	27.2
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°	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9	1231.9
2.5°	1255.2	1243.5	1243.5	1240.9	1230.6	1228.0	1218.9	1221.5	1215.0	1208.5
5°	1299.3	1283.7	1283.7	1261.7	1240.9	1238.3	1228.0	1228.0	1217.6	1220.2
7.5°	1360.2	1346.0	1322.6	1303.2	1274.6	1263.0	1243.5	1240.9	1238.3	1233.1
10°	1432.8	1414.7	1391.3	1351.1	1327.8	1305.8	1286.3	1259.1	1252.6	1253.9
12.5°	1531.4	1502.9	1452.3	1417.3	1387.5	1358.9	1330.4	1290.2	1281.1	1285.0
15°	1601.4	1565.1	1514.5	1501.6	1461.4	1426.4	1379.7	1334.3	1318.7	1314.8
17.5°	1658.5	1628.6	1598.8	1579.4	1546.9	1504.2	1439.3	1387.5	1352.4	1348.6
20°	1705.1	1666.2	1659.8	1671.4	1631.2	1602.7	1523.6	1460.1	1413.4	1393.9
22.5°	1733.7	1709.0	1727.2	1737.6	1735.0	1687.0	1605.3	1531.4	1473.0	1454.9
25°	1764.8	1736.3	1801.1	1836.1	1845.2	1766.1	1702.6	1605.3	1548.2	1536.6
27.5°	1780.4	1790.7	1865.9	1939.8	1933.4	1872.4	1786.8	1700.0	1654.6	1633.8
30°	1825.7	1842.6	1956.7	2039.7	2041.0	1981.3	1916.5	1818.0	1767.4	1758.3
32.5°	1907.4	1928.2	2050.1	2138.2	2153.8	2108.4	2043.6	1982.6	1930.8	1910.0
35°	1969.7	2022.8	2160.3	2240.7	2282.2	2254.9	2218.6	2155.1	2100.6	2082.5
37.5°	2059.1	2133.1	2265.3	2374.2	2420.9	2418.3	2391.1	2322.4	2277.0	2261.4
40°	2187.5	2261.4	2382.0	2525.9	2612.8	2608.9	2593.4	2540.2	2472.8	2465.0
42.5°	2323.7	2384.6	2541.5	2706.2	2830.7	2817.7	2776.2	2714.0	2667.3	2656.9
45°	2455.9	2550.6	2695.8	2907.2	3000.5	3033.0	2983.7	2877.3	2824.2	2817.7
47.5°	2621.9	2697.1	2878.6	3068.0	3206.7	3211.9	3127.6	3029.1	2931.8	2952.6
50°	2769.7	2869.6	3053.7	3261.2	3427.1	3367.5	3259.9	3136.7	3066.7	3039.4
52.5°	2927.9	3049.8	3263.8	3475.1	3567.2	3507.5	3332.5	3195.0	3088.7	3077.0
55°	3158.7	3222.3	3502.4	3664.4	3694.3	3568.5	3310.4	3115.9	2978.5	2944.8
57.5°	3393.4	3467.3	3712.4	3852.5	3821.3	3534.8	3167.8	2867.0	2686.7	2638.8
60°	3630.7	3721.5	3927.7	4056.0	3895.2	3302.7	2764.5	2376.8	2166.8	2124.0
62.5°	3895.2	4013.2	4197.4	4242.8	3676.1	2843.6	2194.0	1715.5	1502.9	1431.5
65°	4130.0	4250.5	4477.5	4203.9	3210.6	2121.4	1418.6	980.3	823.4	766.3
67.5°	4323.2	4459.3	4570.8	3720.2	2350.9	1242.2	739.1	516.1	457.7	437.0
70°	4476.2	4703.1	4181.8	2734.7	1343.4	605.6	399.4	339.7	332.0	326.8
72.5°	4342.6	4312.8	3122.4	1578.1	588.7	333.2	289.2	280.1	278.8	280.1
75°	3551.6	3167.8	1867.2	685.9	295.6	241.2	239.9	236.0	242.5	242.5
77.5°	1723.3	1506.8	780.6	294.3	194.5	189.3	195.8	195.8	195.8	195.8
80°	399.4	442.2	278.8	178.9	141.3	141.3	155.6	156.9	150.4	147.8
82.5°	136.2	181.5	153.0	112.8	93.4	105.0	118.0	120.6	99.8	101.1
85°	67.4	106.3	83.0	64.8	48.0	64.8	76.5	80.4	68.7	66.1
87.5°	31.1	46.7	31.1	22.0	16.9	23.3	22.0	18.2	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)