

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: P481155

Luminaire Tested: **IFLD-S-SA2B-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481155
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

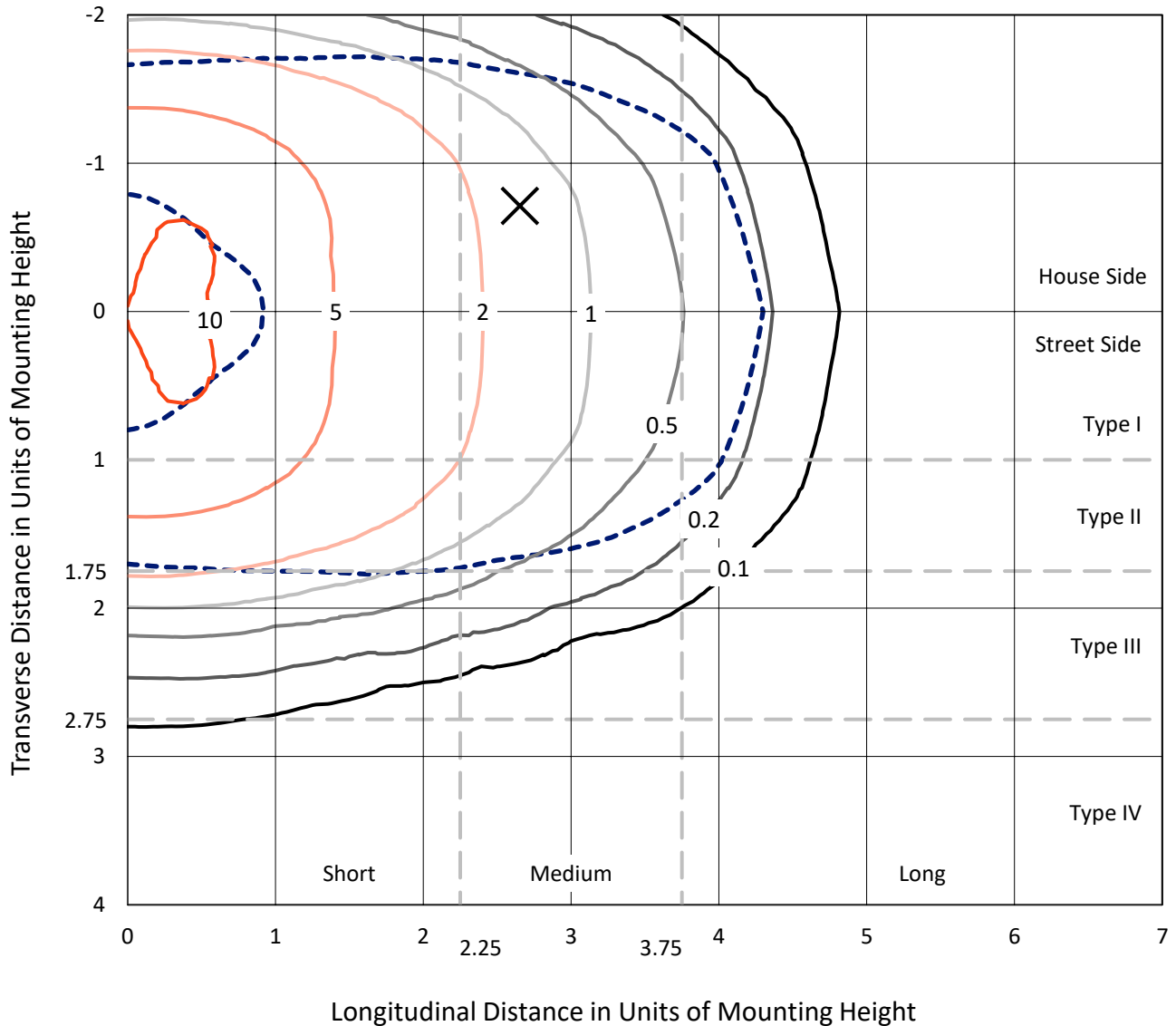
Lumens per Lamp: N/A
Luminaire Lumens: 9835.4 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

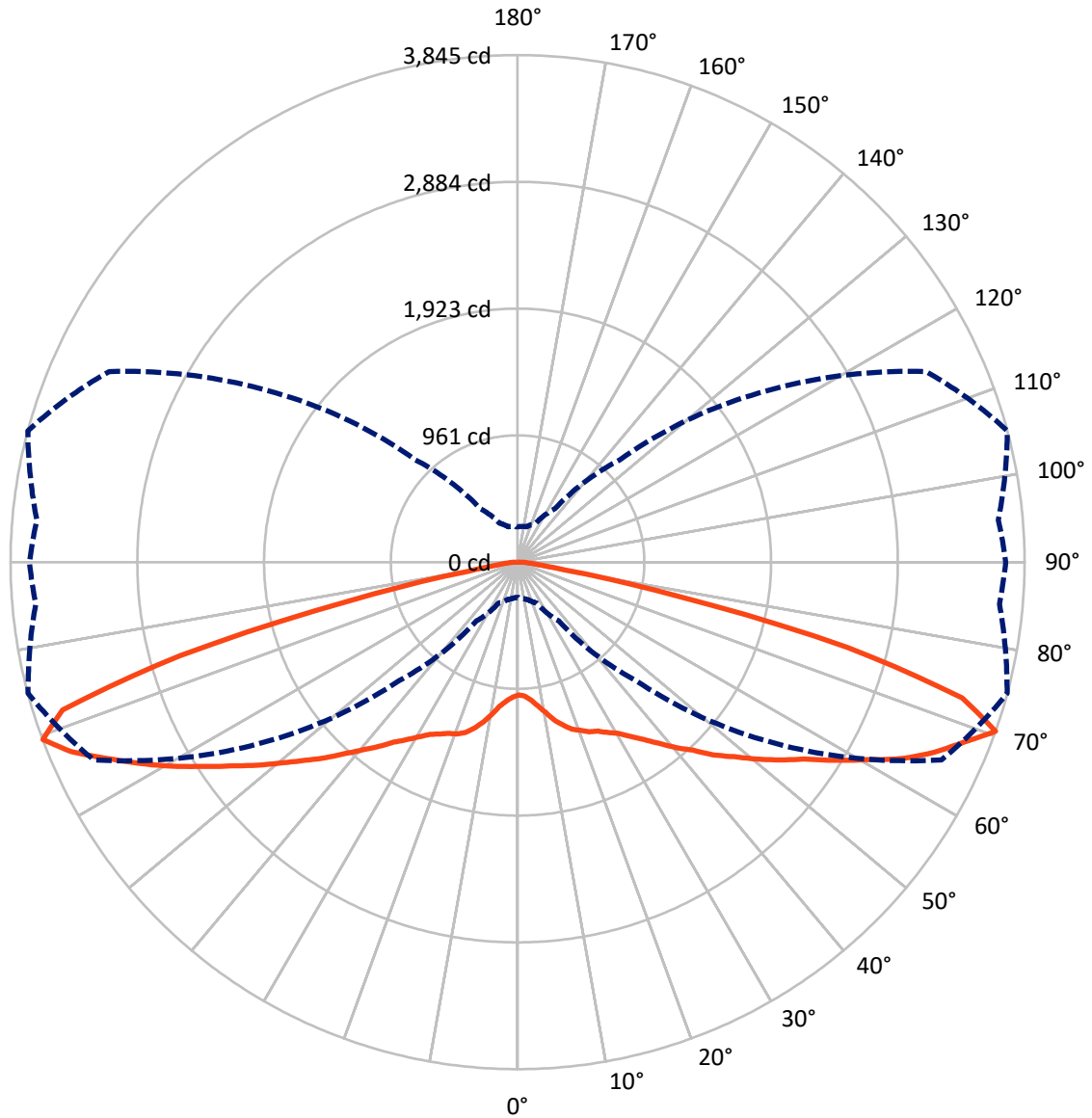
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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	4882.7	0.0	4882.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	4952.7	0.0	4952.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	9835.4	0.0	9835.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.0
10°-20°	341.3	3.5
20°-30°	660.9	6.7
30°-40°	1117.9	11.4
40°-50°	1783.4	18.1
50°-60°	2441.0	24.8
60°-70°	2300.8	23.4
70°-80°	1013.6	10.3
80°-90°	76.3	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°	9835.4	100.0
0°-180°	9835.4	100.0

Coefficient of Utilization



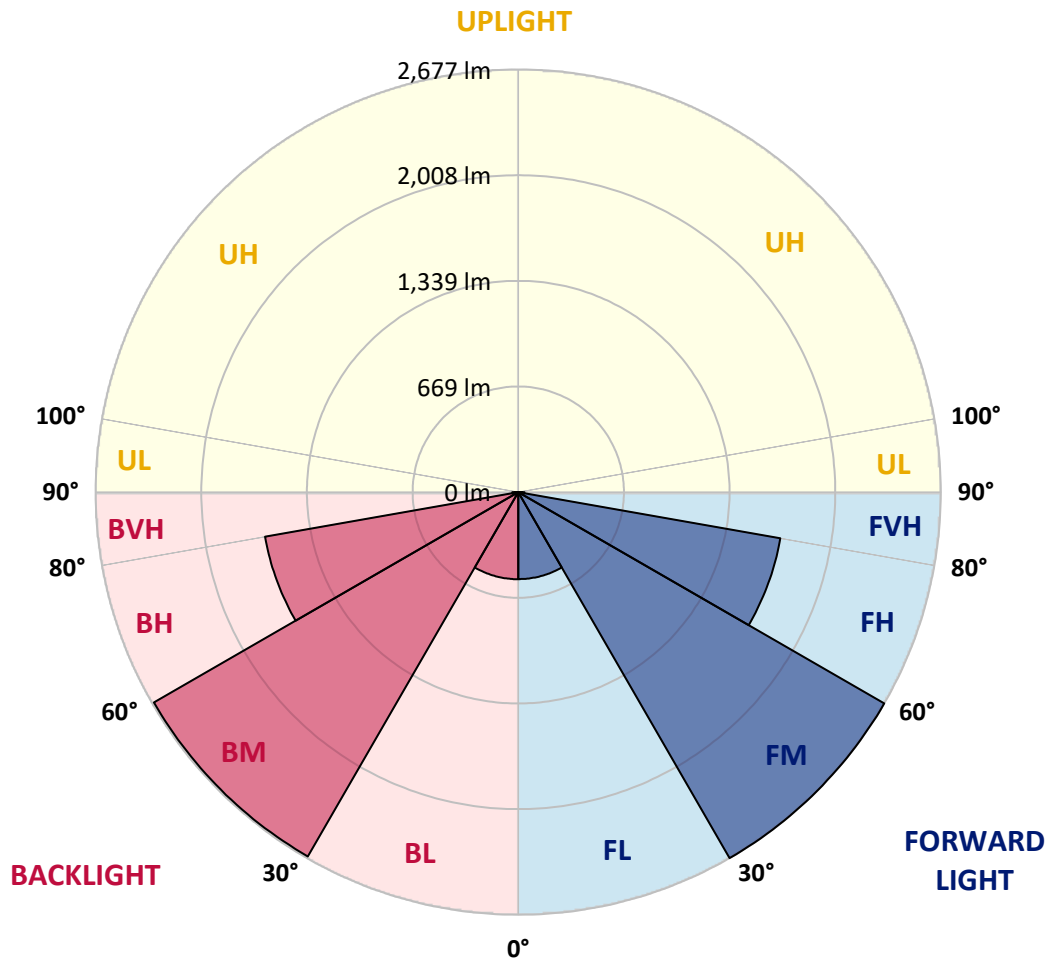
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.9	5.6			
FM (30°-60°)	2677.1	27.2			
FH (60°-80°)	1685.7	17.1			G1/1800
FVH (80°-90°)	39.0	0.4			G1/100
BL (0°-30°)	551.5	5.6	B2/1000		
BM (30°-60°)	2665.2	27.1	B3/5000		
BH (60°-80°)	1628.7	16.6	B3/2500		G3/2500
BVH (80°-90°)	37.3	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°	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1
2.5°	1000.8	1000.8	999.7	1005.0	1010.3	1012.4	1016.7	1017.7	1024.1	1018.8	1029.4
5°	997.6	996.5	1005.0	1017.7	1017.7	1031.5	1040.0	1051.7	1054.8	1061.2	1063.3
7.5°	1019.9	1017.7	1013.5	1027.3	1038.9	1060.1	1071.8	1091.9	1099.4	1107.8	1117.4
10°	1033.6	1033.6	1029.4	1053.8	1064.4	1093.0	1118.5	1138.6	1167.2	1176.8	1177.8
12.5°	1035.8	1038.9	1051.7	1083.5	1113.1	1150.3	1169.3	1207.5	1236.1	1254.1	1260.5
15°	1067.6	1061.2	1075.0	1118.5	1161.9	1194.8	1228.7	1256.3	1297.6	1320.9	1335.8
17.5°	1096.2	1089.8	1115.3	1167.2	1211.7	1262.6	1292.3	1322.0	1351.7	1372.9	1373.9
20°	1141.8	1147.1	1169.3	1225.5	1283.8	1328.4	1362.3	1367.6	1382.4	1413.2	1407.9
22.5°	1198.0	1193.7	1240.4	1301.9	1365.5	1402.6	1421.7	1407.9	1400.4	1433.3	1440.7
25°	1254.1	1266.9	1309.3	1366.5	1442.9	1492.7	1498.0	1459.8	1432.3	1443.9	1440.7
27.5°	1340.0	1342.1	1386.7	1454.5	1531.9	1575.4	1572.2	1518.1	1465.1	1466.2	1468.3
30°	1450.3	1439.7	1488.4	1549.9	1626.3	1665.5	1670.8	1593.4	1522.4	1501.2	1506.5
32.5°	1556.3	1569.0	1611.4	1681.4	1737.6	1759.8	1748.2	1679.3	1587.0	1558.4	1561.6
35°	1692.0	1689.9	1748.2	1807.5	1849.9	1854.2	1844.6	1743.9	1657.0	1619.9	1605.1
37.5°	1837.2	1856.3	1894.5	1943.2	1987.8	1989.9	1937.9	1857.4	1750.3	1688.8	1706.8
40°	1999.4	2020.6	2048.2	2119.2	2152.1	2118.2	2065.2	1956.0	1844.6	1790.6	1799.1
42.5°	2142.5	2152.1	2208.3	2292.0	2307.9	2293.1	2214.6	2082.1	1952.8	1893.4	1897.7
45°	2274.0	2286.7	2359.9	2435.1	2472.3	2446.8	2355.6	2229.5	2078.9	2028.1	2007.9
47.5°	2394.9	2420.3	2491.3	2568.7	2626.0	2628.1	2515.7	2363.1	2204.0	2137.2	2136.2
50°	2476.5	2513.6	2583.6	2671.6	2755.3	2788.2	2675.8	2511.5	2340.8	2269.8	2262.3
52.5°	2521.0	2559.2	2629.2	2765.9	2859.2	2910.1	2857.1	2650.4	2500.9	2426.7	2415.0
55°	2467.0	2492.4	2606.9	2798.8	2943.0	3026.7	2991.7	2842.2	2659.9	2599.5	2610.1
57.5°	2236.9	2289.9	2430.9	2670.5	2940.8	3146.5	3143.3	3023.5	2843.3	2786.1	2788.2
60°	1841.5	1886.0	2059.9	2394.9	2822.1	3195.3	3307.6	3199.5	3049.0	2982.2	2980.1
62.5°	1299.7	1355.9	1557.3	1923.1	2472.3	3127.4	3496.4	3421.1	3250.4	3201.6	3219.7
65°	727.3	761.2	947.8	1278.5	1883.9	2754.3	3530.3	3651.1	3455.0	3380.8	3384.0
67.5°	389.1	401.8	488.7	671.1	1152.4	2123.5	3187.8	3783.6	3676.6	3548.3	3528.2
70°	267.2	271.4	293.7	343.5	544.9	1270.1	2404.4	3547.2	3843.0	3668.1	3702.0
72.5°	225.8	223.7	229.0	234.3	285.2	568.2	1411.0	2729.9	3627.8	3562.1	3549.4
75°	196.1	195.1	197.2	191.9	198.2	250.2	624.4	1701.5	2655.7	2964.2	3011.9
77.5°	162.2	163.3	164.3	159.0	156.9	165.4	251.3	747.4	1307.2	1442.9	1556.3
80°	123.0	125.1	133.6	128.3	119.8	120.9	148.4	250.2	375.3	340.3	350.9
82.5°	83.8	84.8	102.8	96.5	90.1	81.6	95.4	129.3	146.3	111.3	97.5
85°	59.4	58.3	66.8	61.5	57.2	41.3	57.2	73.1	88.0	55.1	49.8
87.5°	13.8	13.8	27.6	22.3	21.2	17.0	22.3	28.6	38.2	24.4	22.3
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°	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1
2.5°	1026.2	1016.7	1016.7	1014.6	1006.1	1004.0	996.5	998.7	993.4	988.1
5°	1062.3	1049.5	1049.5	1031.5	1014.6	1012.4	1004.0	1004.0	995.5	997.6
7.5°	1112.1	1100.4	1081.3	1065.4	1042.1	1032.6	1016.7	1014.6	1012.4	1008.2
10°	1171.5	1156.6	1137.5	1104.7	1085.6	1067.6	1051.7	1029.4	1024.1	1025.2
12.5°	1252.0	1228.7	1187.4	1158.7	1134.4	1111.0	1087.7	1054.8	1047.4	1050.6
15°	1309.3	1279.6	1238.2	1227.6	1194.8	1166.2	1128.0	1090.9	1078.2	1075.0
17.5°	1355.9	1331.5	1307.2	1291.3	1264.8	1229.8	1176.8	1134.4	1105.7	1102.5
20°	1394.1	1362.3	1357.0	1366.5	1333.7	1310.3	1245.7	1193.7	1155.6	1139.7
22.5°	1417.4	1397.3	1412.1	1420.6	1418.5	1379.2	1312.5	1252.0	1204.3	1189.5
25°	1442.9	1419.5	1472.5	1501.2	1508.6	1443.9	1392.0	1312.5	1265.8	1256.3
27.5°	1455.6	1464.1	1525.5	1586.0	1580.7	1530.8	1460.9	1389.8	1352.7	1335.8
30°	1492.7	1506.5	1599.8	1667.6	1668.7	1619.9	1566.9	1486.3	1445.0	1437.6
32.5°	1559.5	1576.4	1676.1	1748.2	1760.9	1723.8	1670.8	1621.0	1578.6	1561.6
35°	1610.4	1653.8	1766.2	1831.9	1865.9	1843.6	1813.9	1762.0	1717.4	1702.6
37.5°	1683.5	1743.9	1852.1	1941.1	1979.3	1977.2	1954.9	1898.7	1861.6	1848.9
40°	1788.5	1848.9	1947.5	2065.2	2136.2	2133.0	2120.3	2076.8	2021.7	2015.3
42.5°	1899.8	1949.6	2077.9	2212.5	2314.3	2303.7	2269.8	2218.9	2180.7	2172.2
45°	2007.9	2085.3	2204.0	2376.8	2453.2	2479.7	2439.4	2352.5	2309.0	2303.7
47.5°	2143.6	2205.1	2353.5	2508.3	2621.7	2626.0	2557.1	2476.5	2397.0	2413.9
50°	2264.5	2346.1	2496.6	2666.3	2802.0	2753.2	2665.2	2564.5	2507.2	2485.0
52.5°	2393.8	2493.5	2668.4	2841.2	2916.5	2867.7	2724.6	2612.2	2525.3	2515.7
55°	2582.5	2634.5	2863.4	2996.0	3020.3	2917.5	2706.5	2547.5	2435.1	2407.6
57.5°	2774.4	2834.8	3035.2	3149.7	3124.2	2889.9	2589.9	2344.0	2196.6	2157.4
60°	2968.4	3042.6	3211.2	3316.1	3184.7	2700.2	2260.2	1943.2	1771.5	1736.5
62.5°	3184.7	3281.1	3431.7	3468.8	3005.5	2324.9	1793.8	1402.6	1228.7	1170.4
65°	3376.6	3475.1	3660.7	3437.0	2624.9	1734.4	1159.8	801.5	673.2	626.5
67.5°	3534.5	3645.8	3737.0	3041.5	1922.0	1015.6	604.3	421.9	374.2	357.3
70°	3659.6	3845.1	3419.0	2235.8	1098.3	495.1	326.5	277.8	271.4	267.2
72.5°	3550.4	3526.0	2552.8	1290.2	481.3	272.5	236.4	229.0	227.9	229.0
75°	2903.7	2589.9	1526.6	560.8	241.7	197.2	196.1	192.9	198.2	198.2
77.5°	1408.9	1231.9	638.2	240.7	159.0	154.8	160.1	160.1	160.1	160.1
80°	326.5	361.5	227.9	146.3	115.6	115.6	127.2	128.3	123.0	120.9
82.5°	111.3	148.4	125.1	92.2	76.3	85.9	96.5	98.6	81.6	82.7
85°	55.1	86.9	67.8	53.0	39.2	53.0	62.5	65.7	56.2	54.1
87.5°	25.4	38.2	25.4	18.0	13.8	19.1	18.0	14.8	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)