

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: P481117

Luminaire Tested: **IFLD-S-SA2C-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481117
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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

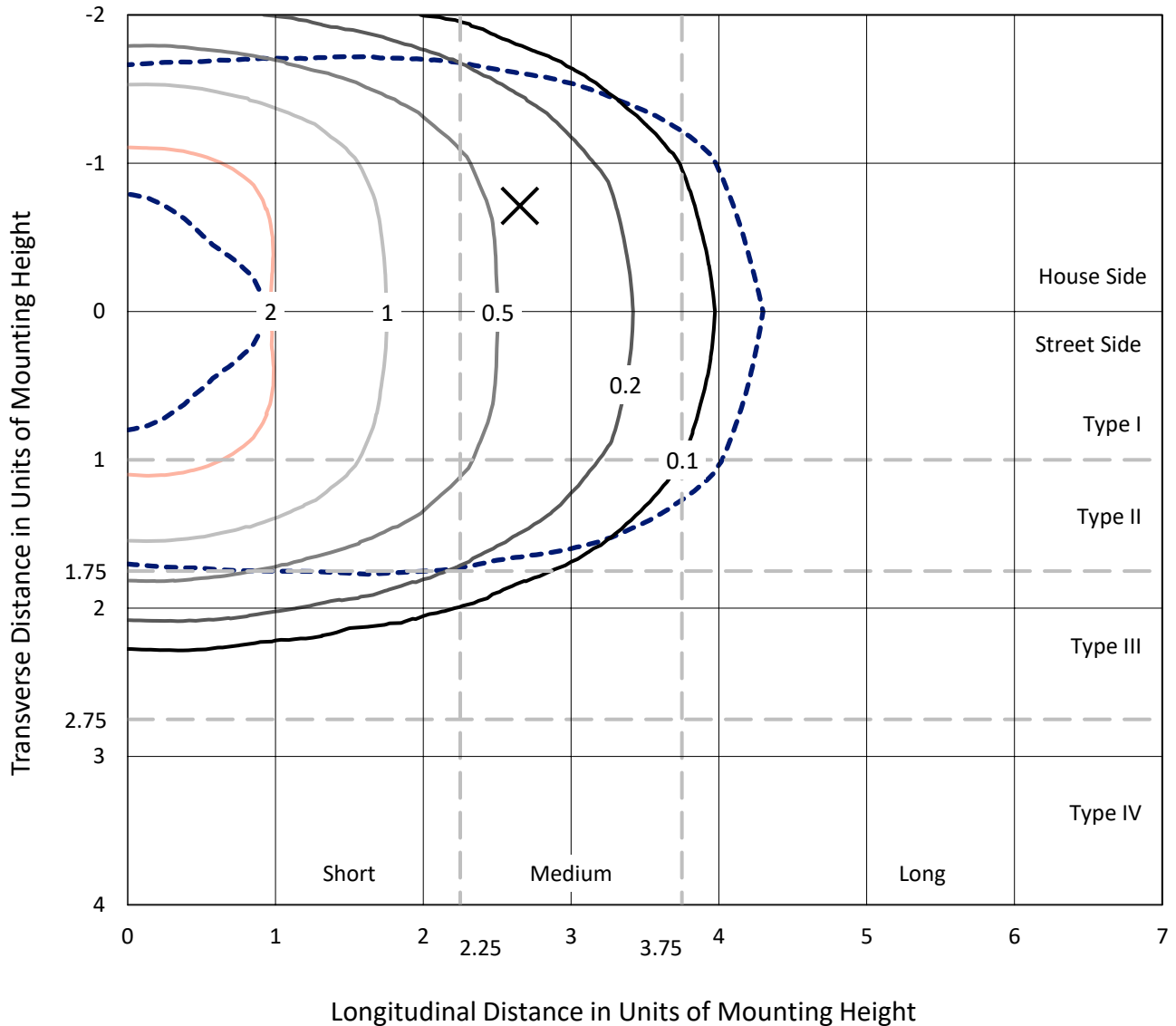
Lumens per Lamp: N/A
Luminaire Lumens: 10784 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 108.2
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

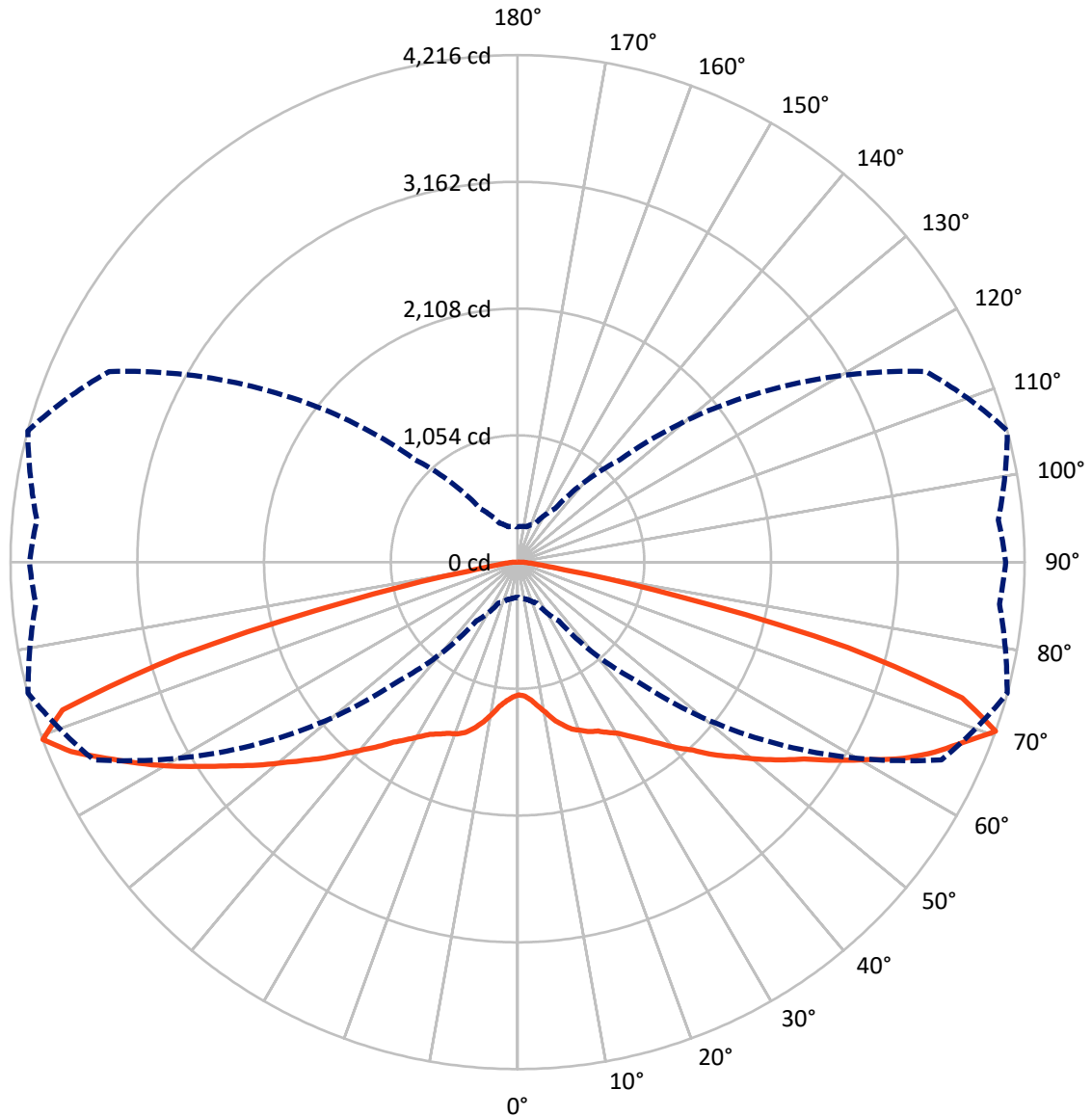
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 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	5353.6	0.0	5353.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5430.3	0.0	5430.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	10784.0	0.0	10784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.0
10°-20°	374.2	3.5
20°-30°	724.7	6.7
30°-40°	1225.7	11.4
40°-50°	1955.3	18.1
50°-60°	2676.4	24.8
60°-70°	2522.7	23.4
70°-80°	1111.3	10.3
80°-90°	83.6	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°	10784.0	100.0
0°-180°	10784.0	100.0

Coefficient of Utilization



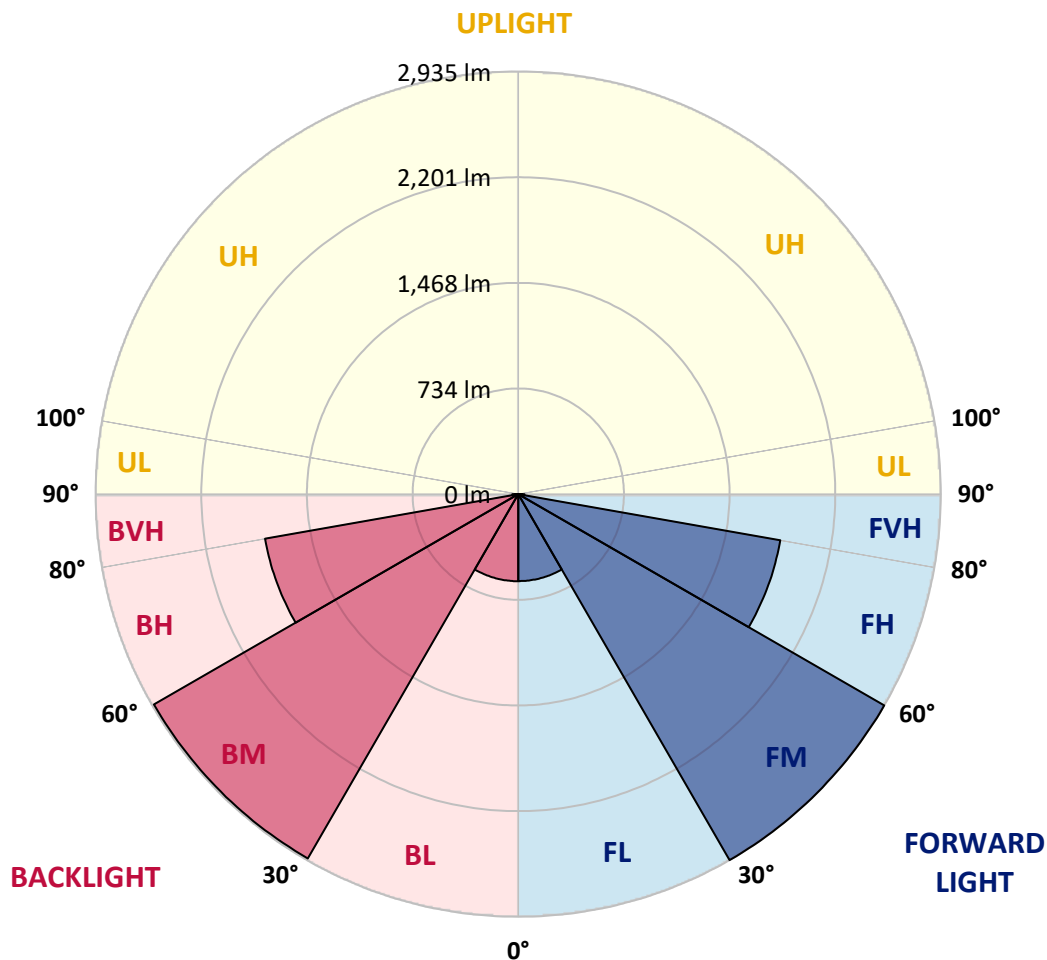
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.1	5.6			
FM (30°-60°)	2935.3	27.2			
FH (60°-80°)	1848.3	17.1			G2/5000
FVH (80°-90°)	42.7	0.4			G1/100
BL (0°-30°)	604.7	5.6	B2/1000		
BM (30°-60°)	2922.2	27.1	B3/5000		
BH (60°-80°)	1785.8	16.6	B3/2500		G3/2500
BVH (80°-90°)	40.9	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°	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3
2.5°	1097.3	1097.3	1096.1	1101.9	1107.8	1110.1	1114.7	1115.9	1122.9	1117.1	1128.7
5°	1093.8	1092.6	1101.9	1115.9	1115.9	1131.0	1140.3	1153.1	1156.6	1163.5	1165.9
7.5°	1118.2	1115.9	1111.2	1126.4	1139.1	1162.4	1175.2	1197.3	1205.4	1214.7	1225.2
10°	1133.3	1133.3	1128.7	1155.4	1167.0	1198.4	1226.3	1248.4	1279.8	1290.2	1291.4
12.5°	1135.7	1139.1	1153.1	1188.0	1220.5	1261.2	1282.1	1324.0	1355.3	1375.1	1382.1
15°	1170.5	1163.5	1178.7	1226.3	1274.0	1310.0	1347.2	1377.4	1422.8	1448.3	1464.6
17.5°	1201.9	1194.9	1222.8	1279.8	1328.6	1384.4	1416.9	1449.5	1482.0	1505.3	1506.5
20°	1251.9	1257.7	1282.1	1343.7	1407.7	1456.5	1493.7	1499.5	1515.8	1549.5	1543.6
22.5°	1313.5	1308.8	1360.0	1427.4	1497.2	1537.8	1558.8	1543.6	1535.5	1571.5	1579.7
25°	1375.1	1389.1	1435.5	1498.3	1582.0	1636.6	1642.5	1600.6	1570.4	1583.2	1579.7
27.5°	1469.3	1471.6	1520.4	1594.8	1679.6	1727.3	1723.8	1664.5	1606.4	1607.6	1609.9
30°	1590.1	1578.5	1632.0	1699.4	1783.1	1826.1	1831.9	1747.1	1669.2	1645.9	1651.8
32.5°	1706.4	1720.3	1766.8	1843.5	1905.2	1929.6	1916.8	1841.2	1740.1	1708.7	1712.2
35°	1855.2	1852.8	1916.8	1981.9	2028.4	2033.0	2022.6	1912.1	1816.8	1776.1	1759.9
37.5°	2014.4	2035.3	2077.2	2130.7	2179.5	2181.8	2124.8	2036.5	1919.1	1851.7	1871.4
40°	2192.3	2215.5	2245.7	2323.6	2359.6	2322.4	2264.3	2144.6	2022.6	1963.3	1972.6
42.5°	2349.2	2359.6	2421.3	2513.1	2530.5	2514.2	2428.2	2282.9	2141.1	2076.0	2080.7
45°	2493.3	2507.3	2587.5	2670.0	2710.7	2682.8	2582.8	2444.5	2279.4	2223.6	2201.6
47.5°	2625.8	2653.7	2731.6	2816.5	2879.2	2881.6	2758.3	2591.0	2416.6	2343.4	2342.2
50°	2715.3	2756.0	2832.7	2929.2	3021.0	3057.1	2933.9	2753.7	2566.5	2488.7	2480.5
52.5°	2764.2	2806.0	2882.7	3032.7	3135.0	3190.8	3132.6	2906.0	2742.1	2660.7	2647.9
55°	2704.9	2732.8	2858.3	3068.7	3226.8	3318.6	3280.3	3116.4	2916.4	2850.2	2861.8
57.5°	2452.6	2510.8	2665.4	2928.1	3224.5	3450.0	3446.5	3315.1	3117.5	3054.8	3057.1
60°	2019.1	2067.9	2258.5	2625.8	3094.3	3503.4	3626.6	3508.1	3343.0	3269.8	3267.5
62.5°	1425.1	1486.7	1707.5	2108.6	2710.7	3429.0	3833.6	3751.0	3563.9	3510.4	3530.2
65°	797.4	834.6	1039.2	1401.8	2065.6	3019.9	3870.7	4003.3	3788.2	3706.9	3710.3
67.5°	426.6	440.5	535.9	735.8	1263.5	2328.3	3495.3	4148.6	4031.2	3890.5	3868.4
70°	292.9	297.6	322.0	376.6	597.5	1392.5	2636.3	3889.3	4213.7	4021.9	4059.1
72.5°	247.6	245.3	251.1	256.9	312.7	623.0	1547.1	2993.1	3977.7	3905.6	3891.7
75°	215.0	213.9	216.2	210.4	217.4	274.3	684.6	1865.6	2911.8	3250.0	3302.3
77.5°	177.8	179.0	180.2	174.4	172.0	181.3	275.5	819.5	1433.2	1582.0	1706.4
80°	134.8	137.2	146.5	140.6	131.3	132.5	162.7	274.3	411.5	373.1	384.7
82.5°	91.8	93.0	112.8	105.8	98.8	89.5	104.6	141.8	160.4	122.1	106.9
85°	65.1	63.9	73.2	67.4	62.8	45.3	62.8	80.2	96.5	60.4	54.6
87.5°	15.1	15.1	30.2	24.4	23.2	18.6	24.4	31.4	41.8	26.7	24.4
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°	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3
2.5°	1125.2	1114.7	1114.7	1112.4	1103.1	1100.8	1092.6	1095.0	1089.2	1083.3
5°	1164.7	1150.8	1150.8	1131.0	1112.4	1110.1	1100.8	1100.8	1091.5	1093.8
7.5°	1219.3	1206.6	1185.6	1168.2	1142.6	1132.2	1114.7	1112.4	1110.1	1105.4
10°	1284.4	1268.2	1247.2	1211.2	1190.3	1170.5	1153.1	1128.7	1122.9	1124.0
12.5°	1372.8	1347.2	1301.9	1270.5	1243.8	1218.2	1192.6	1156.6	1148.4	1151.9
15°	1435.5	1403.0	1357.7	1346.0	1310.0	1278.6	1236.8	1196.1	1182.1	1178.7
17.5°	1486.7	1460.0	1433.2	1415.8	1386.7	1348.4	1290.2	1243.8	1212.4	1208.9
20°	1528.5	1493.7	1487.9	1498.3	1462.3	1436.7	1365.8	1308.8	1267.0	1249.6
22.5°	1554.1	1532.0	1548.3	1557.6	1555.3	1512.3	1439.0	1372.8	1320.5	1304.2
25°	1582.0	1556.4	1614.6	1645.9	1654.1	1583.2	1526.2	1439.0	1387.9	1377.4
27.5°	1596.0	1605.3	1672.7	1738.9	1733.1	1678.5	1601.8	1523.9	1483.2	1464.6
30°	1636.6	1651.8	1754.0	1828.4	1829.6	1776.1	1718.0	1629.7	1584.3	1576.2
32.5°	1709.9	1728.5	1837.7	1916.8	1930.7	1890.0	1831.9	1777.3	1730.8	1712.2
35°	1765.7	1813.3	1936.5	2008.6	2045.8	2021.4	1988.8	1931.9	1883.1	1866.8
37.5°	1845.9	1912.1	2030.7	2128.3	2170.2	2167.9	2143.4	2081.8	2041.2	2027.2
40°	1960.9	2027.2	2135.3	2264.3	2342.2	2338.7	2324.8	2277.1	2216.7	2209.7
42.5°	2083.0	2137.6	2278.3	2425.9	2537.5	2525.9	2488.7	2432.9	2391.0	2381.7
45°	2201.6	2286.4	2416.6	2606.1	2689.8	2718.8	2674.7	2579.3	2531.7	2525.9
47.5°	2350.3	2417.8	2580.5	2750.2	2874.6	2879.2	2803.7	2715.3	2628.2	2646.8
50°	2482.9	2572.4	2737.4	2923.4	3072.2	3018.7	2922.2	2811.8	2749.0	2724.6
52.5°	2624.7	2733.9	2925.7	3115.2	3197.7	3144.3	2987.3	2864.1	2768.8	2758.3
55°	2831.6	2888.5	3139.6	3284.9	3311.6	3198.9	2967.6	2793.2	2670.0	2639.8
57.5°	3042.0	3108.2	3327.9	3453.5	3425.6	3168.7	2839.7	2570.0	2408.5	2365.5
60°	3254.7	3336.0	3520.9	3635.9	3491.8	2960.6	2478.2	2130.7	1942.3	1904.0
62.5°	3491.8	3597.6	3762.6	3803.3	3295.4	2549.1	1966.8	1537.8	1347.2	1283.3
65°	3702.2	3810.3	4013.7	3768.5	2878.1	1901.7	1271.7	878.8	738.1	687.0
67.5°	3875.4	3997.4	4097.4	3334.9	2107.4	1113.6	662.6	462.6	410.3	391.7
70°	4012.6	4216.0	3748.7	2451.5	1204.2	542.8	358.0	304.5	297.6	292.9
72.5°	3892.8	3866.1	2799.0	1414.6	527.7	298.7	259.2	251.1	249.9	251.1
75°	3183.8	2839.7	1673.8	614.9	265.0	216.2	215.0	211.6	217.4	217.4
77.5°	1544.8	1350.7	699.8	263.9	174.4	169.7	175.5	175.5	175.5	175.5
80°	358.0	396.4	249.9	160.4	126.7	126.7	139.5	140.6	134.8	132.5
82.5°	122.1	162.7	137.2	101.1	83.7	94.2	105.8	108.1	89.5	90.7
85°	60.4	95.3	74.4	58.1	43.0	58.1	68.6	72.1	61.6	59.3
87.5°	27.9	41.8	27.9	19.8	15.1	20.9	19.8	16.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)