

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: P481159

Luminaire Tested: **IFLD-S-SA3A-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481159
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

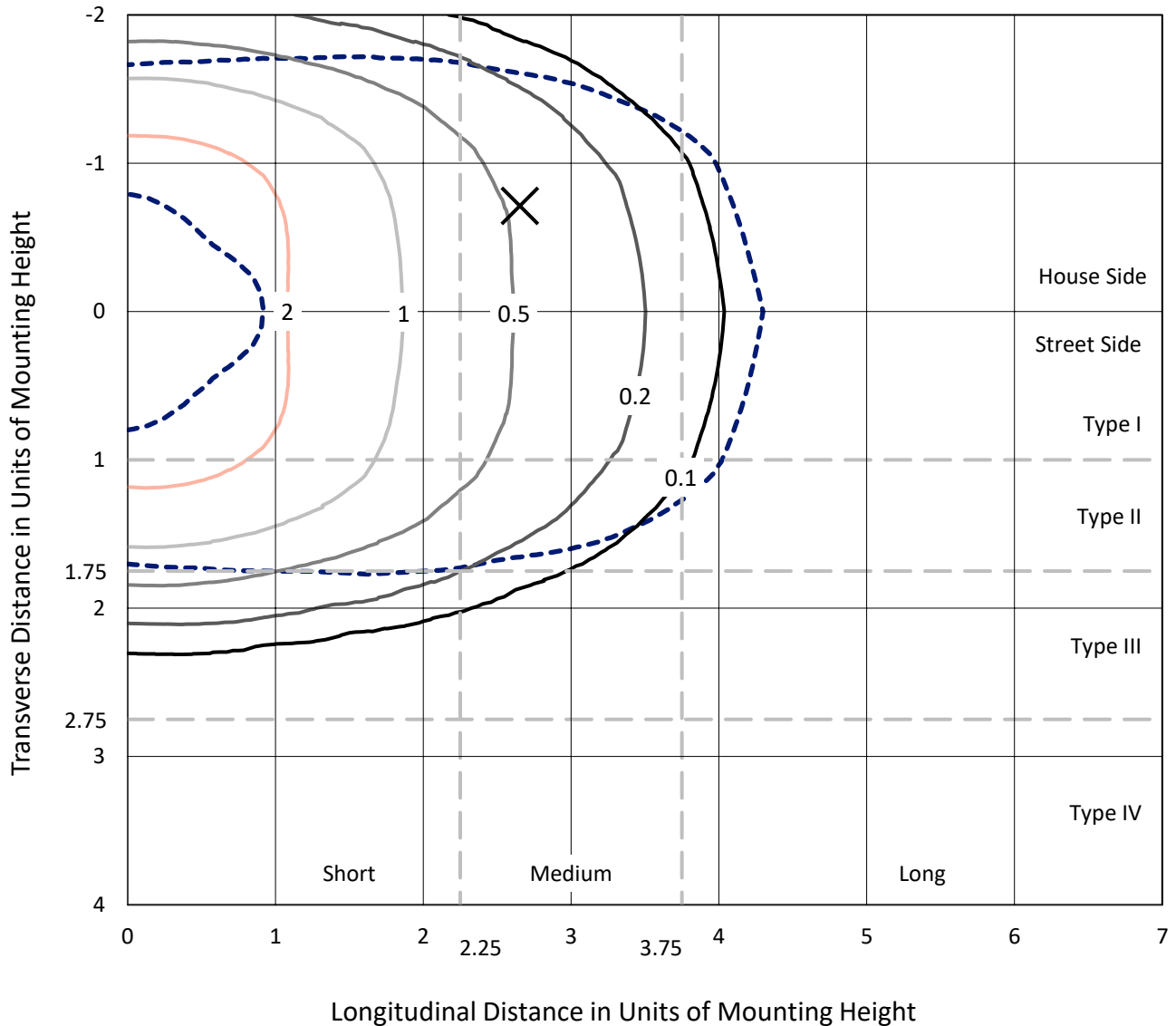
Lumens per Lamp: N/A
Luminaire Lumens: 11851.8 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 94.8
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

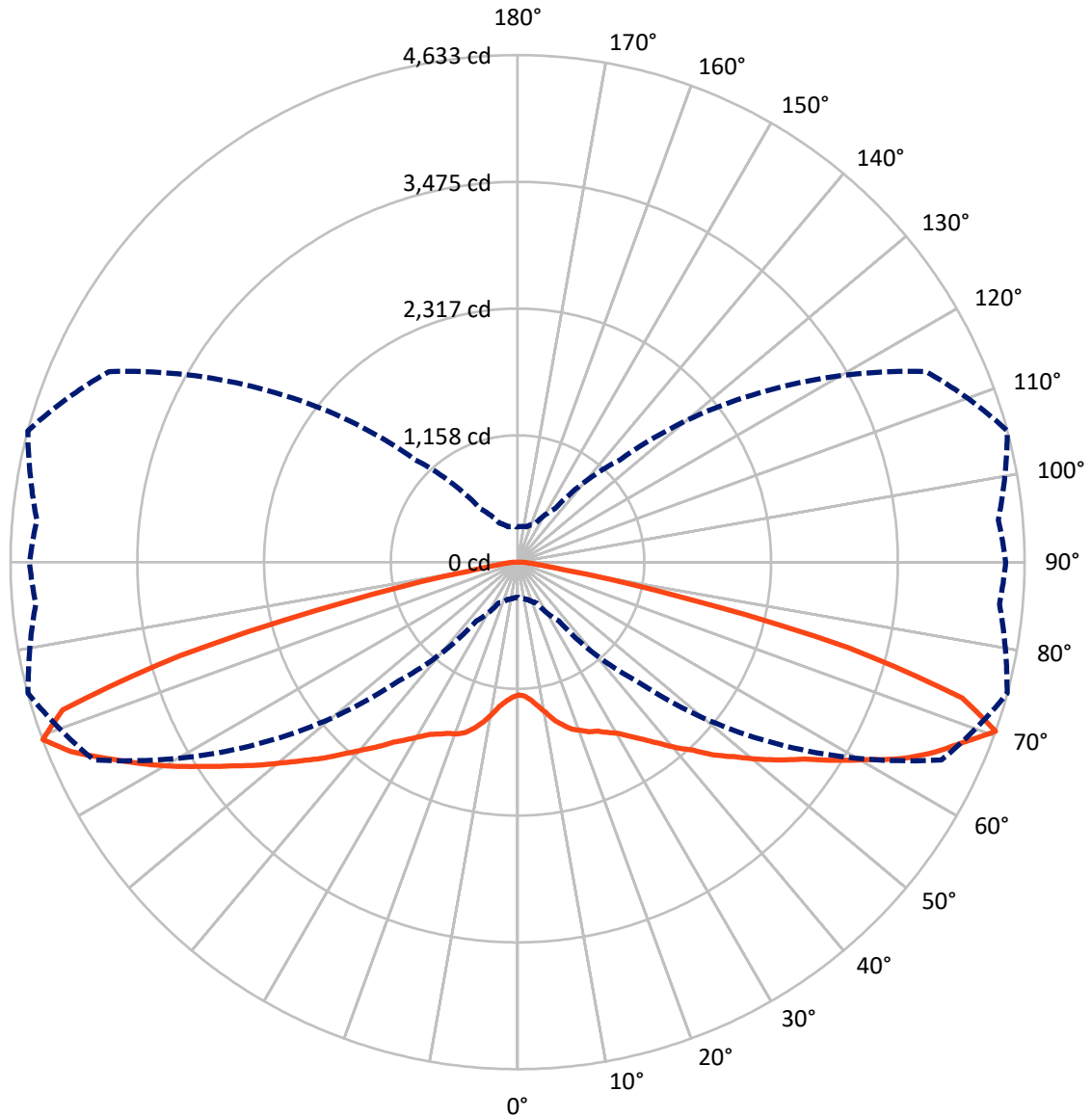
× Max cd
 - - - 1/2 Max cd



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	5883.7	0.0	5883.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5968.0	0.0	5968.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	11851.8	0.0	11851.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	1.0
10°-20°	411.3	3.5
20°-30°	796.4	6.7
30°-40°	1347.1	11.4
40°-50°	2149.0	18.1
50°-60°	2941.5	24.8
60°-70°	2772.5	23.4
70°-80°	1221.4	10.3
80°-90°	91.9	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°	11851.8	100.0
0°-180°	11851.8	100.0



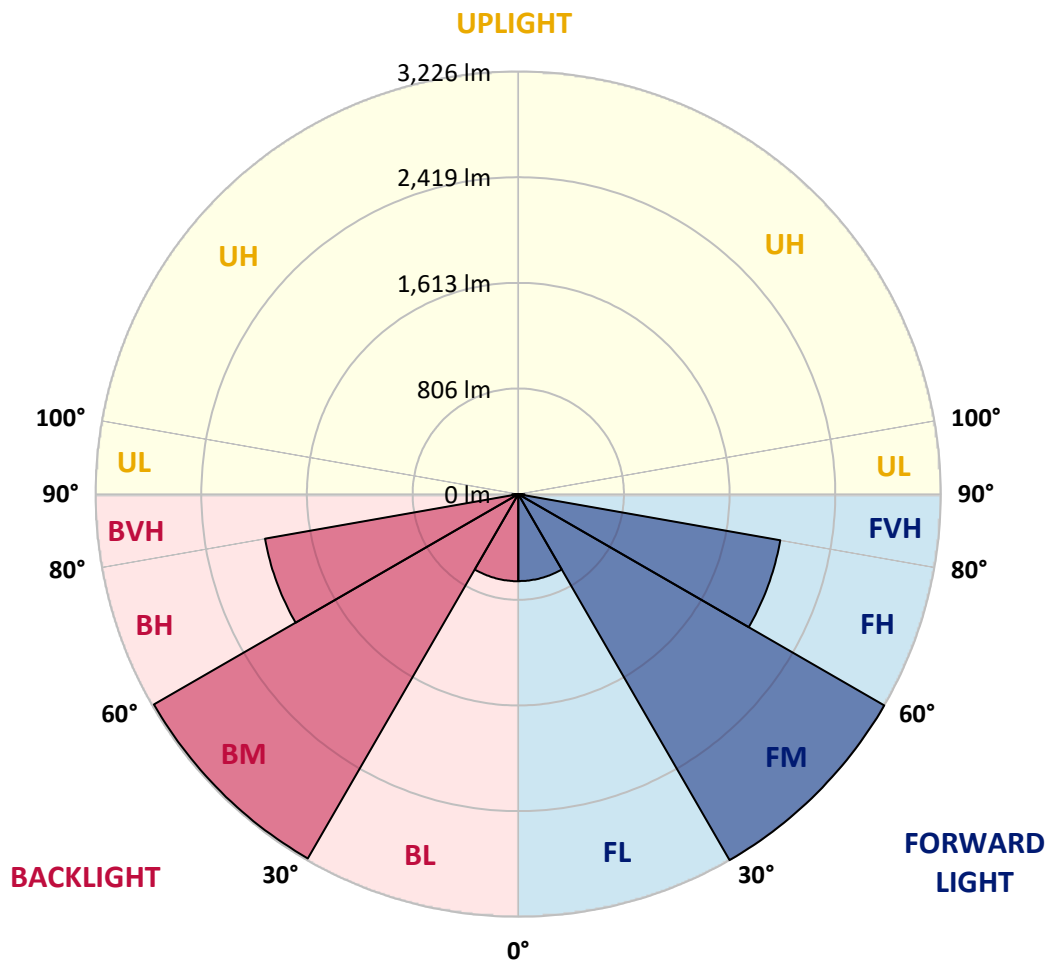
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.9	5.6			
FM (30°-60°)	3225.9	27.2			
FH (60°-80°)	2031.3	17.1			G2/5000
FVH (80°-90°)	46.9	0.4			G1/100
BL (0°-30°)	664.6	5.6	B2/1000		
BM (30°-60°)	3211.5	27.1	B3/5000		
BH (60°-80°)	1962.6	16.6	B3/2500		G3/2500
BVH (80°-90°)	45.0	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°	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6
2.5°	1205.9	1205.9	1204.7	1211.1	1217.4	1220.0	1225.1	1226.4	1234.0	1227.7	1240.4
5°	1202.1	1200.8	1211.1	1226.4	1226.4	1243.0	1253.2	1267.3	1271.1	1278.8	1281.3
7.5°	1228.9	1226.4	1221.3	1237.9	1251.9	1277.5	1291.5	1315.8	1324.7	1335.0	1346.5
10°	1245.5	1245.5	1240.4	1269.8	1282.6	1317.1	1347.7	1372.0	1406.5	1418.0	1419.3
12.5°	1248.1	1251.9	1267.3	1305.6	1341.4	1386.1	1409.1	1455.1	1489.5	1511.3	1518.9
15°	1286.4	1278.8	1295.4	1347.7	1400.1	1439.7	1480.6	1513.8	1563.6	1591.7	1609.6
17.5°	1320.9	1313.3	1343.9	1406.5	1460.2	1521.5	1557.3	1593.0	1628.8	1654.3	1655.6
20°	1375.8	1382.2	1409.1	1476.8	1547.0	1600.7	1641.6	1648.0	1665.8	1702.9	1696.5
22.5°	1443.6	1438.4	1494.7	1568.7	1645.4	1690.1	1713.1	1696.5	1687.6	1727.2	1736.1
25°	1511.3	1526.6	1577.7	1646.7	1738.7	1798.7	1805.1	1759.1	1725.9	1739.9	1736.1
27.5°	1614.7	1617.3	1670.9	1752.7	1846.0	1898.3	1894.5	1829.4	1765.5	1766.8	1769.3
30°	1747.6	1734.8	1793.6	1867.7	1959.7	2006.9	2013.3	1920.1	1834.5	1808.9	1815.3
32.5°	1875.3	1890.7	1941.8	2026.1	2093.8	2120.6	2106.6	2023.5	1912.4	1877.9	1881.7
35°	2038.9	2036.3	2106.6	2178.1	2229.2	2234.3	2222.8	2101.5	1996.7	1952.0	1934.1
37.5°	2213.9	2236.9	2282.9	2341.6	2395.3	2397.8	2335.2	2238.1	2109.1	2035.0	2056.7
40°	2409.3	2434.9	2468.1	2553.7	2593.3	2552.4	2488.5	2357.0	2222.8	2157.7	2167.9
42.5°	2581.8	2593.3	2661.0	2761.9	2781.1	2763.2	2668.7	2509.0	2353.1	2281.6	2286.7
45°	2740.2	2755.5	2843.7	2934.4	2979.1	2948.4	2838.6	2686.5	2505.1	2443.8	2419.6
47.5°	2885.8	2916.5	3002.1	3095.3	3164.3	3166.9	3031.5	2847.5	2655.9	2575.4	2574.1
50°	2984.2	3028.9	3113.2	3219.3	3320.2	3359.8	3224.4	3026.4	2820.7	2735.1	2726.1
52.5°	3037.9	3083.8	3168.2	3333.0	3445.4	3506.7	3442.8	3193.7	3013.6	2924.2	2910.1
55°	2972.7	3003.4	3141.3	3372.6	3546.3	3647.2	3605.1	3424.9	3205.2	3132.4	3145.2
57.5°	2695.5	2759.4	2929.3	3218.0	3543.7	3791.6	3787.7	3643.4	3426.2	3357.2	3359.8
60°	2219.0	2272.6	2482.1	2885.8	3400.7	3850.3	3985.7	3855.4	3674.0	3593.6	3591.0
62.5°	1566.2	1633.9	1876.6	2317.4	2979.1	3768.6	4213.1	4122.4	3916.8	3858.0	3879.7
65°	876.4	917.2	1142.1	1540.6	2270.1	3318.9	4254.0	4399.6	4163.3	4073.9	4077.7
67.5°	468.8	484.2	588.9	808.6	1388.6	2558.8	3841.4	4559.3	4430.3	4275.7	4251.5
70°	321.9	327.0	353.9	413.9	656.6	1530.4	2897.3	4274.5	4630.9	4420.1	4461.0
72.5°	272.1	269.5	275.9	282.3	343.6	684.7	1700.3	3289.5	4371.5	4292.3	4277.0
75°	236.3	235.1	237.6	231.2	238.9	301.5	752.4	2050.4	3200.1	3571.8	3629.3
77.5°	195.5	196.7	198.0	191.6	189.1	199.3	302.8	900.6	1575.1	1738.7	1875.3
80°	148.2	150.7	161.0	154.6	144.4	145.6	178.8	301.5	452.2	410.1	422.8
82.5°	100.9	102.2	123.9	116.3	108.6	98.4	115.0	155.9	176.3	134.1	117.5
85°	71.5	70.3	80.5	74.1	69.0	49.8	69.0	88.1	106.0	66.4	60.0
87.5°	16.6	16.6	33.2	26.8	25.5	20.4	26.8	34.5	46.0	29.4	26.8
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°	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6
2.5°	1236.6	1225.1	1225.1	1222.6	1212.3	1209.8	1200.8	1203.4	1197.0	1190.6
5°	1280.0	1264.7	1264.7	1243.0	1222.6	1220.0	1209.8	1209.8	1199.6	1202.1
7.5°	1340.1	1326.0	1303.0	1283.9	1255.8	1244.3	1225.1	1222.6	1220.0	1214.9
10°	1411.6	1393.7	1370.7	1331.1	1308.1	1286.4	1267.3	1240.4	1234.0	1235.3
12.5°	1508.7	1480.6	1430.8	1396.3	1366.9	1338.8	1310.7	1271.1	1262.2	1266.0
15°	1577.7	1541.9	1492.1	1479.3	1439.7	1405.2	1359.2	1314.5	1299.2	1295.4
17.5°	1633.9	1604.5	1575.1	1556.0	1524.0	1481.9	1418.0	1366.9	1332.4	1328.6
20°	1679.9	1641.6	1635.2	1646.7	1607.1	1579.0	1501.0	1438.4	1392.5	1373.3
22.5°	1708.0	1683.7	1701.6	1711.8	1709.3	1662.0	1581.5	1508.7	1451.2	1433.3
25°	1738.7	1710.5	1774.4	1808.9	1817.9	1739.9	1677.3	1581.5	1525.3	1513.8
27.5°	1754.0	1764.2	1838.3	1911.1	1904.7	1844.7	1760.4	1674.8	1630.1	1609.6
30°	1798.7	1815.3	1927.7	2009.5	2010.8	1952.0	1888.1	1791.0	1741.2	1732.3
32.5°	1879.2	1899.6	2019.7	2106.6	2121.9	2077.2	2013.3	1953.3	1902.2	1881.7
35°	1940.5	1992.9	2128.3	2207.5	2248.4	2221.5	2185.8	2123.2	2069.5	2051.6
37.5°	2028.6	2101.5	2231.8	2339.1	2385.1	2382.5	2355.7	2288.0	2243.3	2227.9
40°	2155.1	2227.9	2346.7	2488.5	2574.1	2570.3	2555.0	2502.6	2436.2	2428.5
42.5°	2289.2	2349.3	2503.9	2666.1	2788.7	2776.0	2735.1	2673.8	2627.8	2617.6
45°	2419.6	2512.8	2655.9	2864.1	2956.1	2988.0	2939.5	2834.7	2782.4	2776.0
47.5°	2583.1	2657.2	2836.0	3022.5	3159.2	3164.3	3081.3	2984.2	2888.4	2908.8
50°	2728.7	2827.1	3008.5	3212.9	3376.4	3317.6	3211.6	3090.2	3021.2	2994.4
52.5°	2884.6	3004.6	3215.4	3423.7	3514.4	3455.6	3283.1	3147.7	3043.0	3031.5
55°	3111.9	3174.5	3450.5	3610.2	3639.5	3515.6	3261.4	3069.8	2934.4	2901.2
57.5°	3343.2	3416.0	3657.4	3795.4	3764.7	3482.4	3120.9	2824.5	2646.9	2599.7
60°	3577.0	3666.4	3869.5	3996.0	3837.6	3253.7	2723.6	2341.6	2134.7	2092.5
62.5°	3837.6	3953.8	4135.2	4179.9	3621.7	2801.5	2161.5	1690.1	1480.6	1410.3
65°	4068.8	4187.6	4411.1	4141.6	3163.0	2090.0	1397.6	965.8	811.2	755.0
67.5°	4259.1	4393.3	4503.1	3665.1	2316.1	1223.8	728.2	508.4	451.0	430.5
70°	4409.9	4633.4	4119.9	2694.2	1323.5	596.6	393.5	334.7	327.0	321.9
72.5°	4278.3	4248.9	3076.2	1554.7	580.0	328.3	284.9	275.9	274.7	275.9
75°	3499.0	3120.9	1839.6	675.8	291.3	237.6	236.3	232.5	238.9	238.9
77.5°	1697.8	1484.4	769.0	290.0	191.6	186.5	192.9	192.9	192.9	192.9
80°	393.5	435.6	274.7	176.3	139.2	139.2	153.3	154.6	148.2	145.6
82.5°	134.1	178.8	150.7	111.1	92.0	103.5	116.3	118.8	98.4	99.6
85°	66.4	104.8	81.8	63.9	47.3	63.9	75.4	79.2	67.7	65.2
87.5°	30.7	46.0	30.7	21.7	16.6	23.0	21.7	17.9	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)