

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: P572710

Luminaire Tested: **ARCH-S-PA2-100-830-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-100-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10917 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

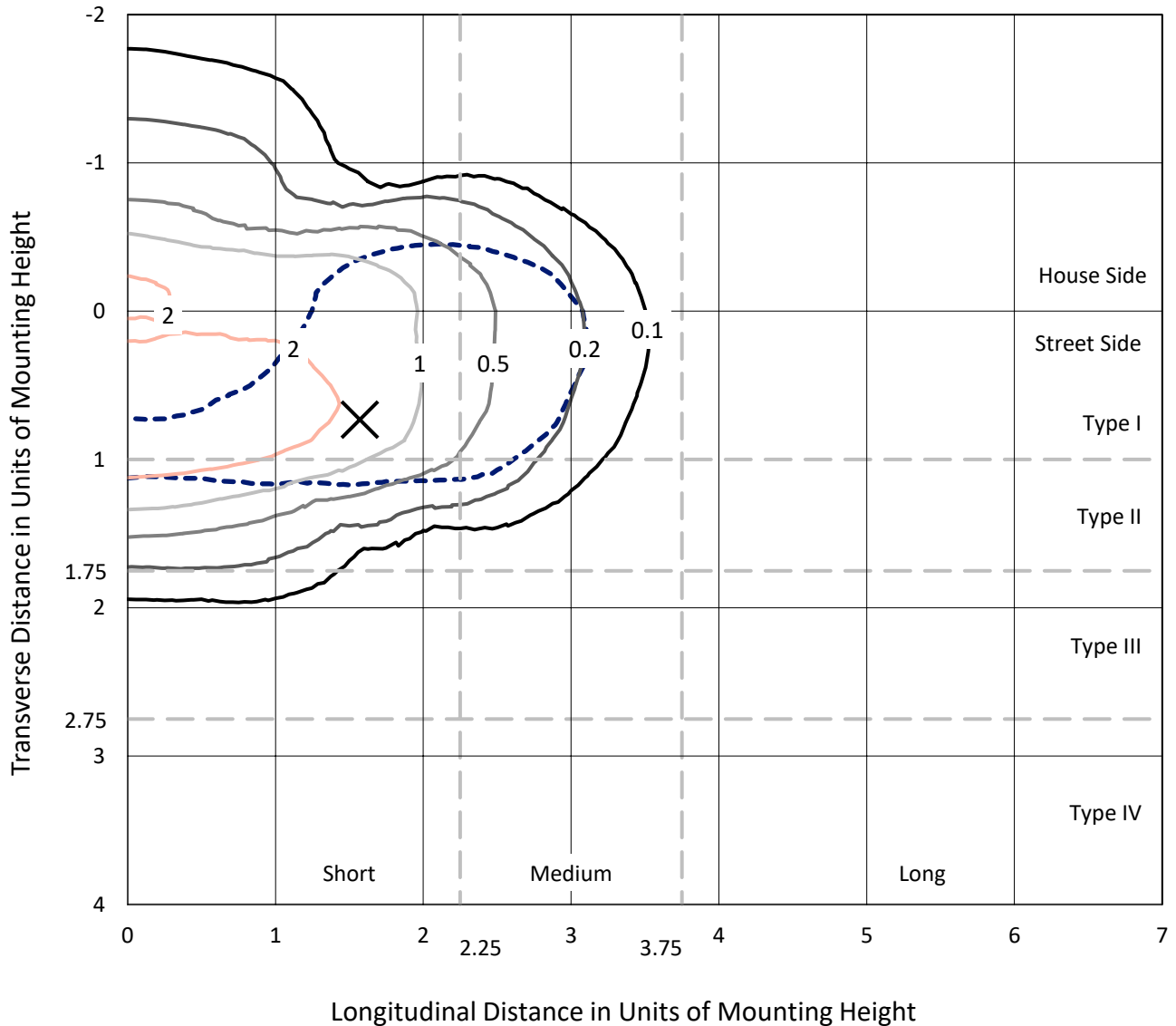
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

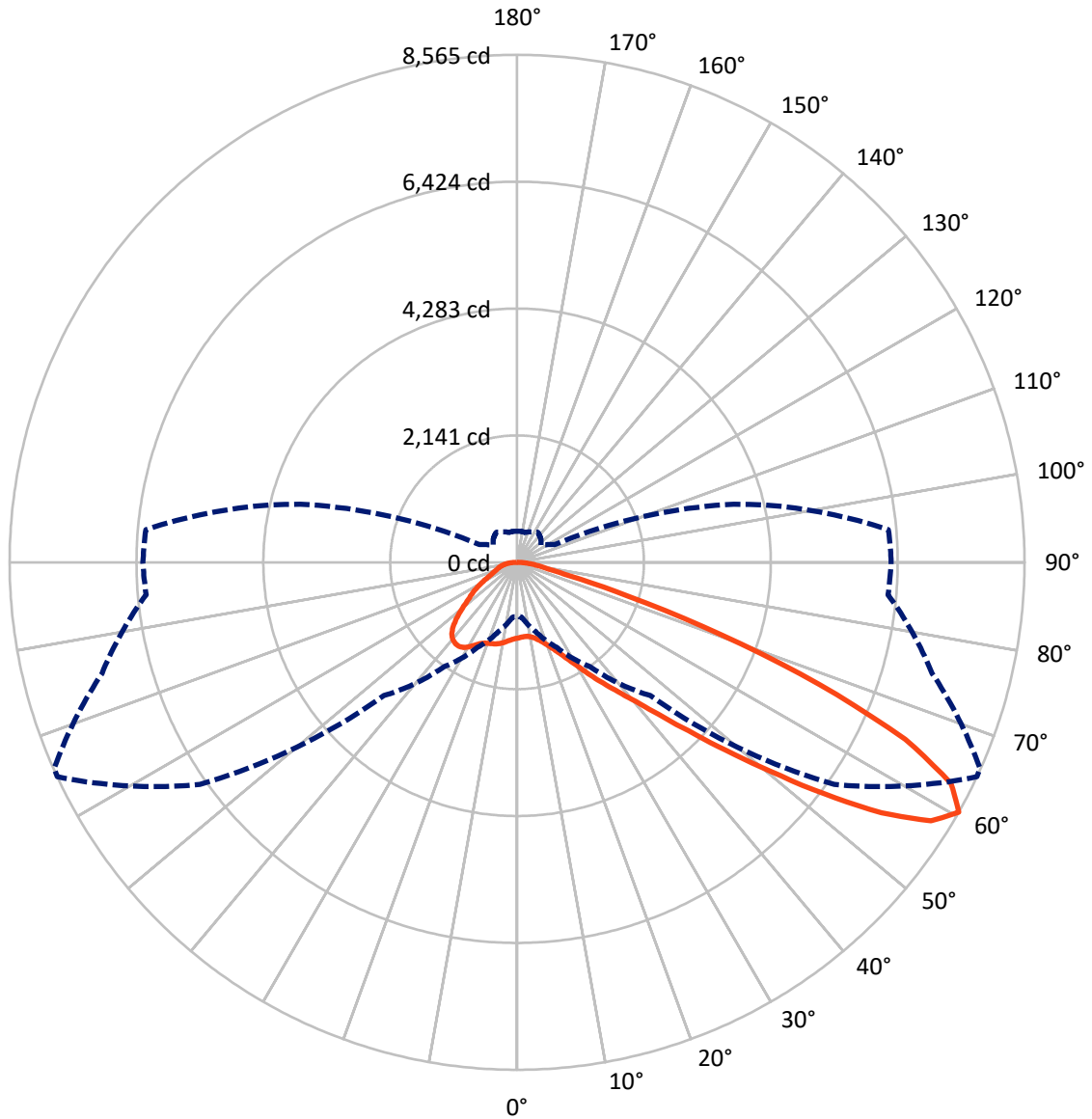
✕ Max cd
 - - - 1/2 Max cd



Based on 25 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 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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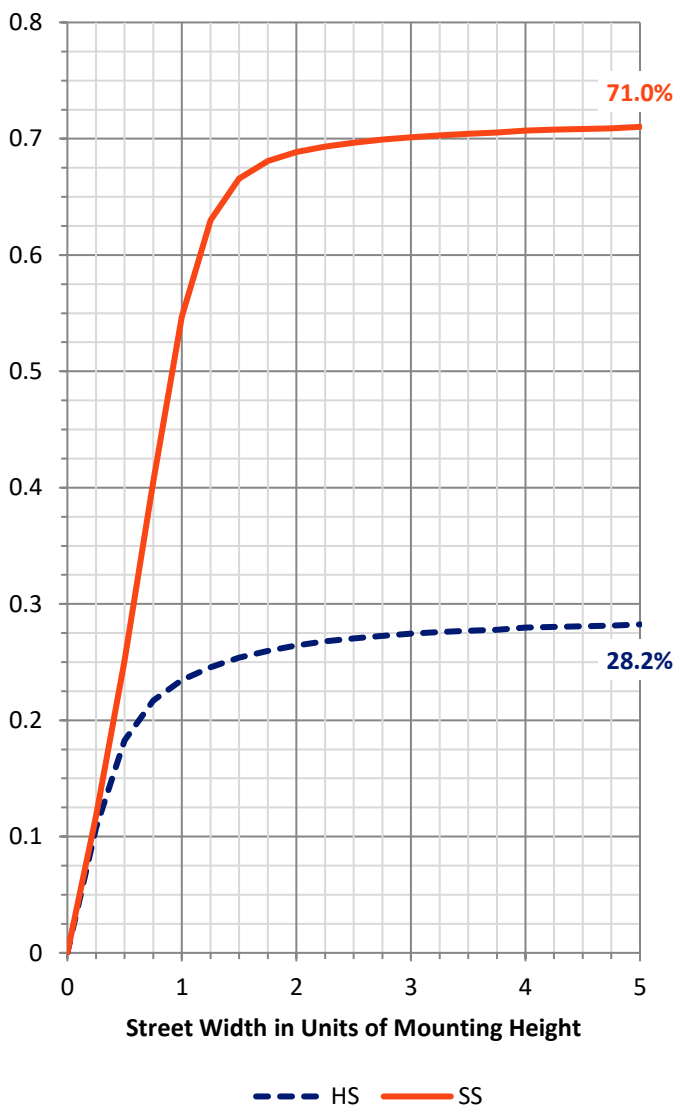
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3125.2	0.0	3125.2
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	7791.8	0.0	7791.8
	% Fixture	71.4	0.0	71.4
Total	Lumens	10917.0	0.0	10917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.1
10°-20°	398.3	3.6
20°-30°	763.5	7.0
30°-40°	1326.0	12.1
40°-50°	2248.9	20.6
50°-60°	2800.4	25.7
60°-70°	2256.6	20.7
70°-80°	854.5	7.8
80°-90°	144.9	1.3
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°	10917.0	100.0
0°-180°	10917.0	100.0

Coefficient of Utilization



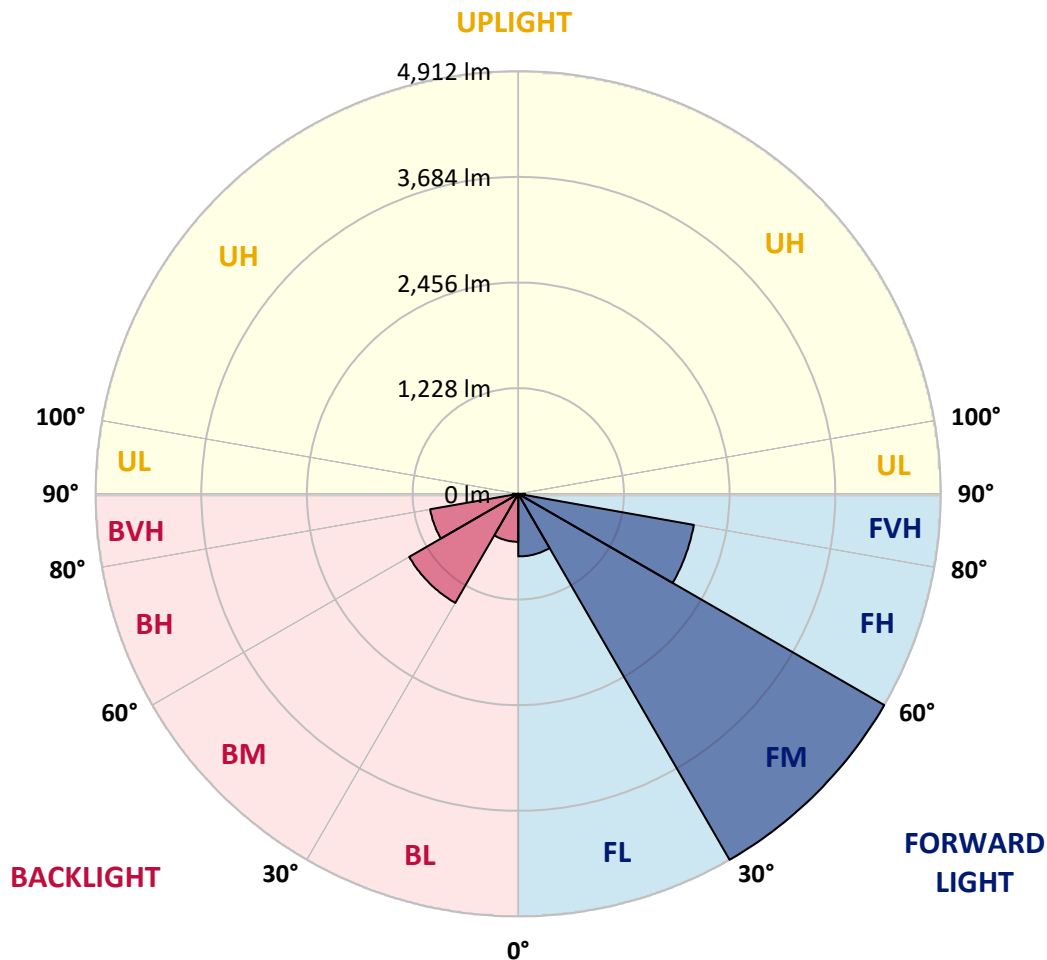
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	727.8	6.7			
FM (30°-60°)	4911.6	45.0			
FH (60°-80°)	2072.0	19.0			G2/5000
FVH (80°-90°)	80.4	0.7			G1/100
BL (0°-30°)	557.8	5.1	B2/1000		
BM (30°-60°)	1463.8	13.4	B2/2500		
BH (60°-80°)	1039.1	9.5	B3/2500		G3/2500
BVH (80°-90°)	64.5	0.6			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°	66°	75°	85°
0°	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9
2.5°	1251.0	1251.0	1251.0	1254.0	1257.0	1259.9	1265.9	1265.9	1265.9	1268.9	1274.9
5°	1227.0	1224.0	1227.0	1230.0	1236.0	1242.0	1254.0	1259.9	1259.9	1271.9	1283.9
7.5°	1230.0	1224.0	1224.0	1227.0	1233.0	1239.0	1251.0	1259.9	1262.9	1277.9	1298.8
10°	1259.9	1251.0	1251.0	1254.0	1254.0	1259.9	1268.9	1280.9	1283.9	1298.8	1319.8
12.5°	1322.8	1313.8	1310.8	1301.8	1292.9	1298.8	1307.8	1310.8	1313.8	1322.8	1343.7
15°	1454.5	1439.5	1415.6	1397.6	1373.7	1358.7	1355.7	1358.7	1358.7	1361.7	1373.7
17.5°	1643.0	1625.1	1589.1	1550.2	1493.4	1445.5	1430.5	1418.6	1418.6	1409.6	1409.6
20°	1873.5	1846.5	1804.6	1747.8	1664.0	1577.2	1526.3	1499.4	1490.4	1475.4	1454.5
22.5°	2139.8	2121.9	2068.0	1981.2	1855.5	1738.8	1655.0	1595.1	1595.1	1559.2	1514.3
25°	2454.0	2421.1	2358.3	2256.5	2085.9	1918.3	1804.6	1717.8	1708.9	1652.0	1580.2
27.5°	2759.3	2738.4	2660.5	2525.9	2322.4	2127.8	1969.2	1867.5	1852.5	1762.7	1652.0
30°	3130.4	3106.5	2989.7	2801.2	2582.7	2361.3	2175.7	2044.0	2029.1	1906.4	1750.8
32.5°	3591.3	3510.5	3366.8	3151.4	2870.0	2621.6	2409.2	2268.5	2250.5	2109.9	1924.3
35°	4150.9	4082.1	3833.7	3606.3	3271.1	2944.9	2690.5	2504.9	2481.0	2313.4	2080.0
37.5°	4546.0	4513.1	4342.5	4162.9	3779.8	3339.9	3028.7	2771.3	2747.3	2525.9	2223.6
40°	4794.4	4761.4	4713.6	4662.7	4450.2	3953.4	3435.7	3085.5	3046.6	2837.1	2510.9
42.5°	4923.1	4896.1	4905.1	5006.9	5066.7	4988.9	4016.3	3504.5	3477.6	3223.2	2861.1
45°	4848.2	4830.3	4917.1	5186.4	5479.7	6054.3	4761.4	4055.2	3983.3	3681.1	3286.0
47.5°	4489.1	4435.2	4638.7	5096.6	5725.1	6563.1	5659.3	4734.5	4656.7	4222.8	3717.0
50°	3749.9	3734.9	4013.3	4593.9	5629.3	6763.6	6619.9	5536.6	5479.7	4806.3	4195.8
52.5°	3061.6	3055.6	3271.1	3803.8	5018.8	6622.9	7317.2	6491.3	6320.7	5392.9	4716.6
55°	2376.2	2373.2	2564.8	2962.8	4004.3	5961.5	7646.4	7463.9	7338.2	6033.4	5252.3
57.5°	1625.1	1604.1	1852.5	2154.8	3007.7	4722.5	7431.0	8233.0	8155.2	6712.7	5820.9
60°	903.8	933.7	1209.1	1583.2	2151.8	3181.3	6533.1	8565.2	8553.2	7254.4	6284.8
62.5°	640.4	652.4	769.1	1125.3	1415.6	1822.6	5039.8	8221.1	8316.8	7553.7	6548.1
65°	532.7	538.7	595.6	832.0	1035.5	1053.4	3142.4	7200.5	7326.2	7460.9	6605.0
67.5°	502.8	505.8	535.7	613.5	811.0	763.1	1403.6	5497.7	5764.0	6712.7	6233.9
70°	457.9	460.9	505.8	541.7	655.4	601.5	721.3	3651.1	4010.3	5306.1	5375.0
72.5°	392.0	401.0	436.9	508.8	532.7	499.8	556.6	1951.3	2307.4	3549.4	4150.9
75°	338.2	344.2	371.1	431.0	499.8	398.0	472.9	888.8	1041.5	2082.9	2627.6
77.5°	272.3	275.3	314.2	353.1	419.0	323.2	368.1	532.7	559.6	1017.5	1188.1
80°	206.5	206.5	233.4	281.3	311.2	311.2	269.3	371.1	386.1	484.8	469.9
82.5°	158.6	155.6	176.6	197.5	224.5	260.4	203.5	245.4	251.4	293.3	251.4
85°	104.7	104.7	116.7	134.7	149.6	143.7	158.6	143.7	149.6	182.6	137.7
87.5°	44.9	44.9	62.8	59.9	65.8	68.8	77.8	68.8	68.8	83.8	62.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9
2.5°	1277.9	1280.9	1286.9	1289.9	1298.8	1301.8	1301.8	1307.8	1307.8	1313.8	1313.8
5°	1286.9	1295.9	1304.8	1313.8	1322.8	1325.8	1331.8	1334.8	1334.8	1340.7	1337.8
7.5°	1304.8	1313.8	1331.8	1340.7	1352.7	1358.7	1355.7	1358.7	1355.7	1358.7	1358.7
10°	1328.8	1340.7	1361.7	1373.7	1382.6	1385.6	1376.7	1367.7	1355.7	1355.7	1355.7
12.5°	1355.7	1364.7	1391.6	1400.6	1406.6	1397.6	1373.7	1355.7	1346.7	1349.7	1346.7
15°	1382.6	1391.6	1412.6	1421.6	1421.6	1394.6	1373.7	1367.7	1364.7	1367.7	1367.7
17.5°	1409.6	1418.6	1436.5	1436.5	1427.5	1406.6	1385.6	1364.7	1349.7	1340.7	1340.7
20°	1445.5	1445.5	1451.5	1451.5	1448.5	1415.6	1364.7	1313.8	1283.9	1265.9	1262.9
22.5°	1493.4	1481.4	1469.4	1469.4	1481.4	1394.6	1295.9	1218.0	1170.2	1164.2	1152.2
25°	1544.3	1517.3	1487.4	1508.3	1487.4	1340.7	1200.1	1095.3	1038.5	1017.5	1023.5
27.5°	1598.1	1556.2	1511.3	1571.2	1457.5	1236.0	1065.4	948.7	894.8	879.9	879.9
30°	1672.9	1610.1	1544.3	1637.0	1400.6	1116.3	906.8	823.0	793.1	781.1	778.1
32.5°	1816.6	1720.8	1625.1	1696.9	1337.8	960.7	799.1	748.2	712.3	700.3	709.3
35°	1945.3	1810.6	1747.8	1723.8	1239.0	835.0	733.2	688.3	658.4	643.4	643.4
37.5°	2062.0	1933.3	1885.4	1723.8	1110.3	757.2	691.3	655.4	616.5	604.5	604.5
40°	2316.4	2145.8	2062.0	1699.9	951.7	718.3	670.4	628.5	595.6	583.6	580.6
42.5°	2666.5	2436.1	2244.6	1646.0	817.0	700.3	658.4	610.5	583.6	574.6	571.6
45°	3037.6	2834.1	2418.1	1550.2	730.2	682.3	655.4	604.5	571.6	562.6	559.6
47.5°	3486.5	3277.0	2618.6	1403.6	670.4	670.4	652.4	595.6	565.6	556.6	556.6
50°	3983.3	3809.8	2873.0	1236.0	625.5	661.4	646.4	595.6	562.6	553.7	550.7
52.5°	4492.1	4411.3	3139.4	1071.4	580.6	649.4	643.4	595.6	556.6	547.7	547.7
55°	5138.5	5072.7	3447.6	948.7	544.7	625.5	643.4	589.6	547.7	541.7	541.7
57.5°	5773.0	5749.1	3687.1	841.0	517.7	595.6	634.5	580.6	538.7	535.7	535.7
60°	6314.7	6290.7	3788.8	706.3	490.8	565.6	616.5	565.6	523.7	526.7	526.7
62.5°	6649.9	6512.2	3714.0	583.6	463.9	538.7	595.6	547.7	508.8	517.7	514.8
65°	6709.7	6389.5	3423.7	487.8	433.9	508.8	571.6	526.7	487.8	508.8	505.8
67.5°	6269.8	5737.1	2879.0	425.0	404.0	475.8	544.7	496.8	463.9	493.8	484.8
70°	5318.1	4659.7	2130.8	377.1	374.1	436.9	508.8	460.9	431.0	445.9	433.9
72.5°	3959.4	3363.8	1379.7	341.2	341.2	392.0	457.9	416.0	386.1	389.1	377.1
75°	2469.0	2068.0	784.1	308.3	308.3	347.2	407.0	365.1	344.2	332.2	347.2
77.5°	1122.3	909.8	413.0	275.3	278.3	296.3	350.2	311.2	287.3	269.3	278.3
80°	416.0	371.1	269.3	236.4	242.4	245.4	281.3	248.4	227.4	215.5	209.5
82.5°	215.5	200.5	182.6	188.5	197.5	188.5	218.5	185.5	161.6	152.6	128.7
85°	107.7	104.7	110.7	125.7	137.7	116.7	131.7	119.7	98.8	71.8	71.8
87.5°	41.9	44.9	41.9	56.9	62.8	53.9	59.9	41.9	29.9	15.0	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)