

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: P572782

Luminaire Tested: **ARCH-S-PA2-110-827-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572782
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-PA2-110-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10920 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

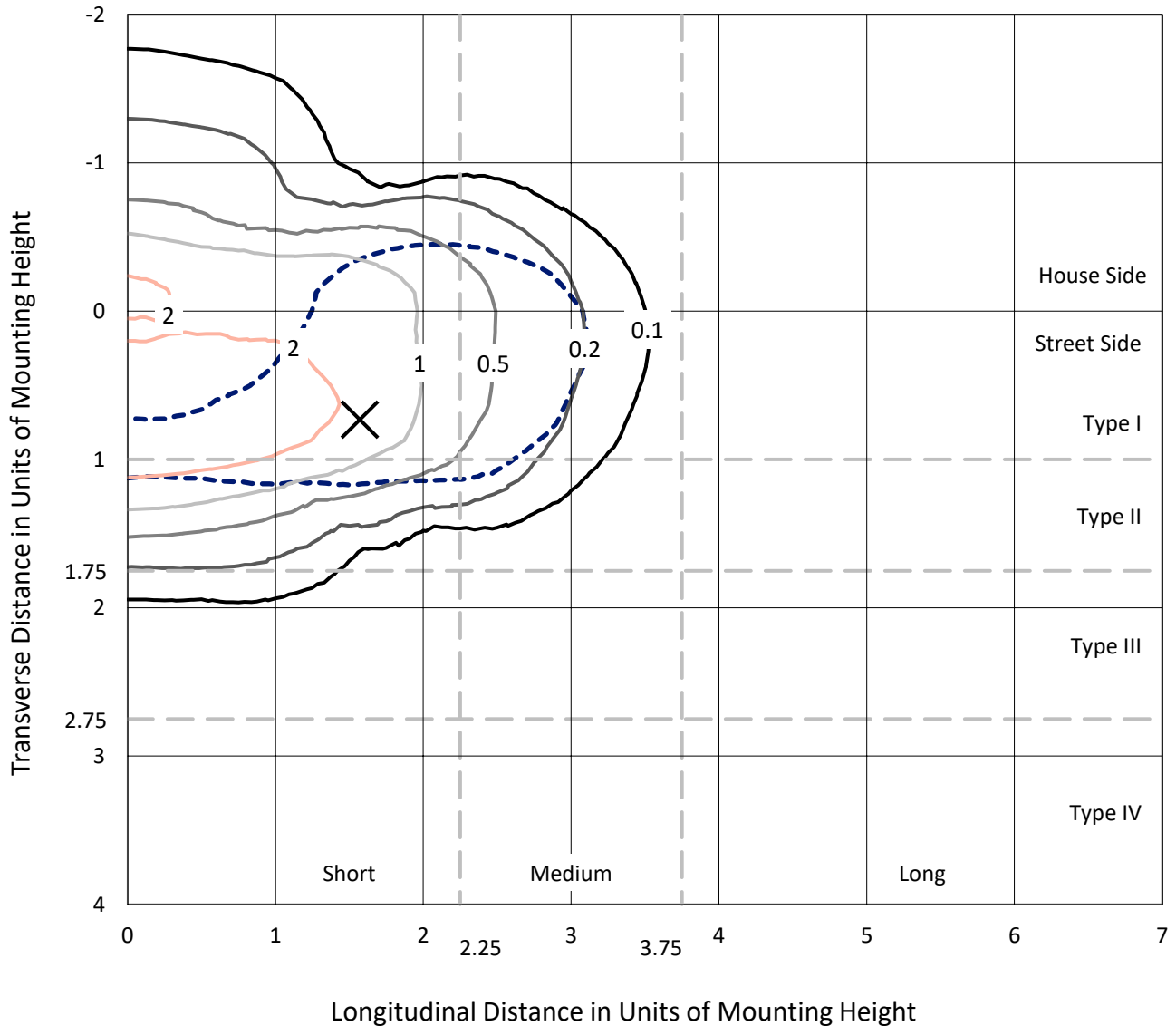
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

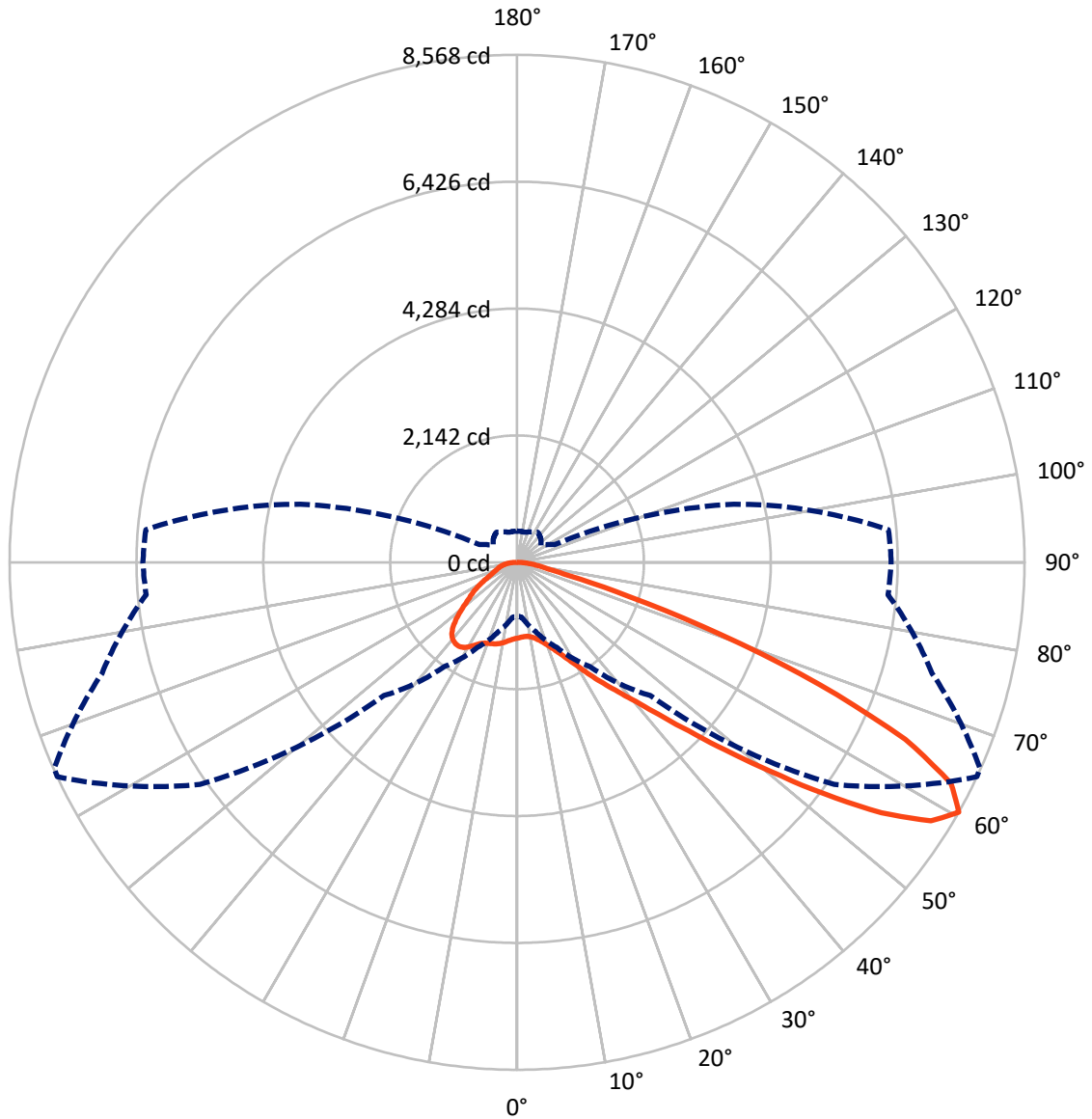
✕ Max cd
 - - - 1/2 Max cd



Based on 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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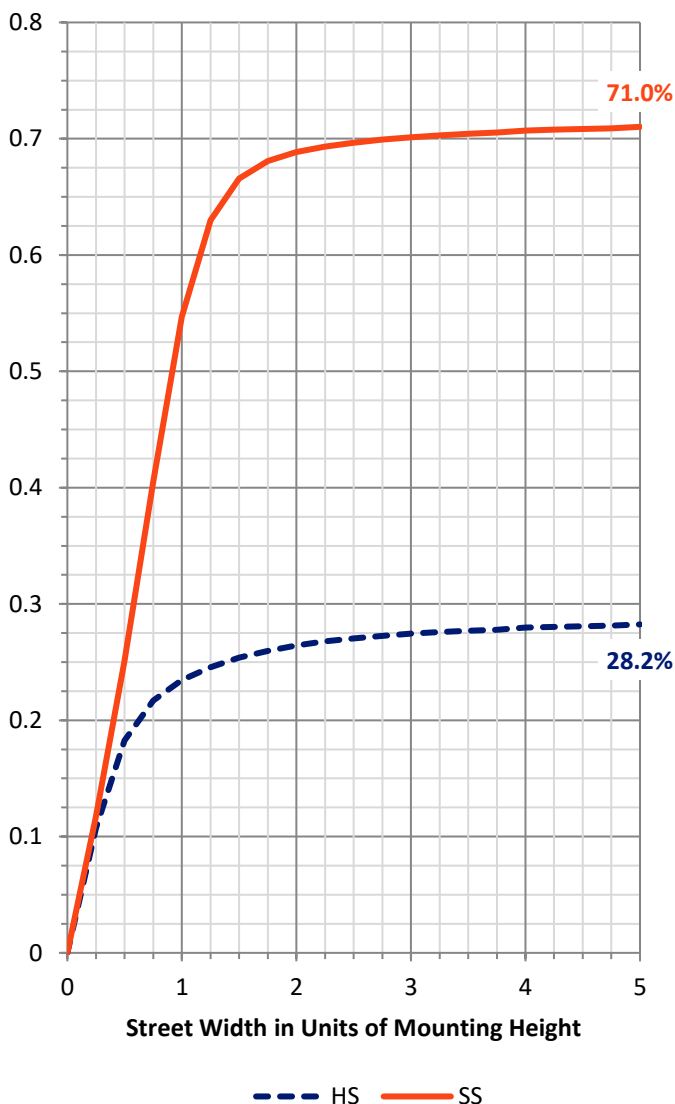
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3126.1	0.0	3126.1
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	7793.9	0.0	7793.9
	% Fixture	71.4	0.0	71.4
Total	Lumens	10920.0	0.0	10920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.1
10°-20°	398.4	3.6
20°-30°	763.7	7.0
30°-40°	1326.4	12.1
40°-50°	2249.6	20.6
50°-60°	2801.2	25.7
60°-70°	2257.2	20.7
70°-80°	854.7	7.8
80°-90°	145.0	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°	10920.0	100.0
0°-180°	10920.0	100.0

Coefficient of Utilization



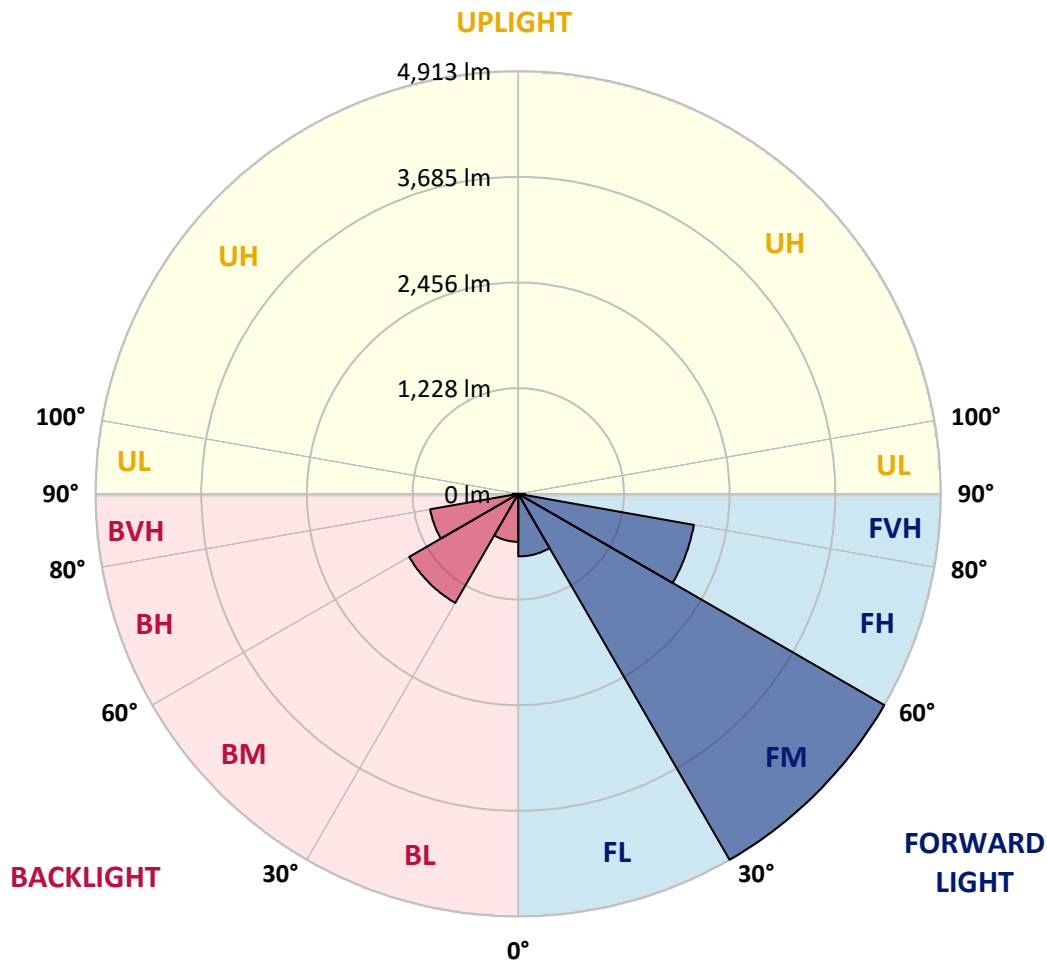
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.0	6.7			
FM (30°-60°)	4912.9	45.0			
FH (60°-80°)	2072.6	19.0			G2/5000
FVH (80°-90°)	80.4	0.7			G1/100
BL (0°-30°)	557.9	5.1	B2/1000		
BM (30°-60°)	1464.2	13.4	B2/2500		
BH (60°-80°)	1039.4	9.5	B3/2500		G3/2500
BVH (80°-90°)	64.6	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°	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1251.3	1251.3	1251.3	1254.3	1257.3	1260.3	1266.3	1266.3	1266.3	1269.3	1275.3
5°	1227.4	1224.4	1227.4	1230.4	1236.3	1242.3	1254.3	1260.3	1260.3	1272.3	1284.2
7.5°	1230.4	1224.4	1224.4	1227.4	1233.3	1239.3	1251.3	1260.3	1263.3	1278.3	1299.2
10°	1260.3	1251.3	1251.3	1254.3	1254.3	1260.3	1269.3	1281.2	1284.2	1299.2	1320.2
12.5°	1323.2	1314.2	1311.2	1302.2	1293.2	1299.2	1308.2	1311.2	1314.2	1323.2	1344.1
15°	1454.9	1439.9	1416.0	1398.0	1374.0	1359.1	1356.1	1359.1	1359.1	1362.1	1374.0
17.5°	1643.5	1625.5	1589.6	1550.7	1493.8	1445.9	1430.9	1418.9	1418.9	1410.0	1410.0
20°	1874.0	1847.0	1805.1	1748.2	1664.4	1577.6	1526.7	1499.8	1490.8	1475.8	1454.9
22.5°	2140.4	2122.4	2068.6	1981.7	1856.0	1739.3	1655.4	1595.6	1595.6	1559.6	1514.7
25°	2454.7	2421.8	2358.9	2257.1	2086.5	1918.9	1805.1	1718.3	1709.3	1652.4	1580.6
27.5°	2760.1	2739.1	2661.3	2526.6	2323.0	2128.4	1969.8	1868.0	1853.0	1763.2	1652.4
30°	3131.3	3107.3	2990.6	2802.0	2583.4	2361.9	2176.3	2044.6	2029.6	1906.9	1751.2
32.5°	3592.3	3511.4	3367.8	3152.2	2870.8	2622.4	2409.8	2269.1	2251.2	2110.5	1924.9
35°	4152.1	4083.2	3834.8	3607.2	3272.0	2945.7	2691.2	2505.6	2481.7	2314.0	2080.5
37.5°	4547.2	4514.3	4343.7	4164.0	3780.9	3340.8	3029.5	2772.0	2748.1	2526.6	2224.2
40°	4795.7	4762.8	4714.9	4664.0	4451.4	3954.5	3436.6	3086.4	3047.4	2837.9	2511.6
42.5°	4924.4	4897.5	4906.4	5008.2	5068.1	4990.3	4017.4	3505.5	3478.5	3224.1	2861.8
45°	4849.6	4831.6	4918.4	5187.8	5481.2	6056.0	4762.8	4056.3	3984.4	3682.1	3286.9
47.5°	4490.3	4436.5	4640.0	5098.0	5726.7	6564.9	5660.8	4735.8	4658.0	4223.9	3718.0
50°	3750.9	3736.0	4014.4	4595.1	5630.9	6765.4	6621.8	5538.1	5481.2	4807.7	4197.0
52.5°	3062.4	3056.4	3272.0	3804.8	5020.2	6624.8	7319.3	6493.0	6322.4	5394.4	4717.9
55°	2376.9	2373.9	2565.5	2963.6	4005.4	5963.2	7648.6	7465.9	7340.2	6035.0	5253.7
57.5°	1625.5	1604.5	1853.0	2155.4	3008.5	4723.8	7433.0	8235.3	8157.5	6714.6	5822.5
60°	904.1	934.0	1209.4	1583.6	2152.4	3182.2	6534.9	8567.6	8555.6	7256.4	6286.5
62.5°	640.6	652.6	769.3	1125.6	1416.0	1823.1	5041.2	8223.3	8319.1	7555.7	6549.9
65°	532.9	538.8	595.7	832.2	1035.8	1053.7	3143.2	7202.5	7328.2	7462.9	6606.8
67.5°	502.9	505.9	535.8	613.7	811.3	763.4	1404.0	5499.2	5765.6	6714.6	6235.6
70°	458.0	461.0	505.9	541.8	655.6	601.7	721.4	3652.1	4011.4	5307.6	5376.4
72.5°	392.2	401.1	437.1	508.9	532.9	499.9	556.8	1951.8	2308.0	3550.4	4152.1
75°	338.3	344.3	371.2	431.1	499.9	398.1	473.0	889.1	1041.8	2083.5	2628.3
77.5°	272.4	275.4	314.3	353.2	419.1	323.3	368.2	532.9	559.8	1017.8	1188.4
80°	206.6	206.6	233.5	281.4	311.3	311.3	269.4	371.2	386.2	485.0	470.0
82.5°	158.7	155.7	176.6	197.6	224.5	260.4	203.6	245.5	251.5	293.4	251.5
85°	104.8	104.8	116.7	134.7	149.7	143.7	158.7	143.7	149.7	182.6	137.7
87.5°	44.9	44.9	62.9	59.9	65.9	68.9	77.8	68.9	68.9	83.8	62.9
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°	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1278.3	1281.2	1287.2	1290.2	1299.2	1302.2	1302.2	1308.2	1308.2	1314.2	1314.2
5°	1287.2	1296.2	1305.2	1314.2	1323.2	1326.1	1332.1	1335.1	1335.1	1341.1	1338.1
7.5°	1305.2	1314.2	1332.1	1341.1	1353.1	1359.1	1356.1	1359.1	1356.1	1359.1	1359.1
10°	1329.1	1341.1	1362.1	1374.0	1383.0	1386.0	1377.0	1368.1	1356.1	1356.1	1356.1
12.5°	1356.1	1365.1	1392.0	1401.0	1407.0	1398.0	1374.0	1356.1	1347.1	1350.1	1347.1
15°	1383.0	1392.0	1413.0	1421.9	1421.9	1395.0	1374.0	1368.1	1365.1	1368.1	1368.1
17.5°	1410.0	1418.9	1436.9	1436.9	1427.9	1407.0	1386.0	1365.1	1350.1	1341.1	1341.1
20°	1445.9	1445.9	1451.9	1451.9	1448.9	1416.0	1365.1	1314.2	1284.2	1266.3	1263.3
22.5°	1493.8	1481.8	1469.8	1469.8	1481.8	1395.0	1296.2	1218.4	1170.5	1164.5	1152.5
25°	1544.7	1517.7	1487.8	1508.8	1487.8	1341.1	1200.4	1095.6	1038.8	1017.8	1023.8
27.5°	1598.6	1556.7	1511.7	1571.6	1457.9	1236.3	1065.7	949.0	895.1	880.1	880.1
30°	1673.4	1610.5	1544.7	1637.5	1401.0	1116.6	907.0	823.2	793.3	781.3	778.3
32.5°	1817.1	1721.3	1625.5	1697.3	1338.1	960.9	799.3	748.4	712.5	700.5	709.5
35°	1945.8	1811.1	1748.2	1724.3	1239.3	835.2	733.4	688.5	658.6	643.6	643.6
37.5°	2062.6	1933.8	1885.9	1724.3	1110.6	757.4	691.5	655.6	616.7	604.7	604.7
40°	2317.0	2146.4	2062.6	1700.3	952.0	718.5	670.6	628.6	595.7	583.7	580.8
42.5°	2667.3	2436.8	2245.2	1646.5	817.2	700.5	658.6	610.7	583.7	574.8	571.8
45°	3038.5	2834.9	2418.8	1550.7	730.4	682.5	655.6	604.7	571.8	562.8	559.8
47.5°	3487.5	3278.0	2619.4	1404.0	670.6	670.6	652.6	595.7	565.8	556.8	556.8
50°	3984.4	3810.8	2873.8	1236.3	625.7	661.6	646.6	595.7	562.8	553.8	550.8
52.5°	4493.3	4412.5	3140.2	1071.7	580.8	649.6	643.6	595.7	556.8	547.8	547.8
55°	5139.9	5074.1	3448.6	949.0	544.8	625.7	643.6	589.7	547.8	541.8	541.8
57.5°	5774.6	5750.6	3688.1	841.2	517.9	595.7	634.6	580.8	538.8	535.8	535.8
60°	6316.4	6292.5	3789.8	706.5	490.9	565.8	616.7	565.8	523.9	526.9	526.9
62.5°	6651.7	6514.0	3715.0	583.7	464.0	538.8	595.7	547.8	508.9	517.9	514.9
65°	6711.6	6391.3	3424.6	488.0	434.1	508.9	571.8	526.9	488.0	508.9	505.9
67.5°	6271.5	5738.7	2879.8	425.1	404.1	476.0	544.8	496.9	464.0	493.9	485.0
70°	5319.6	4661.0	2131.4	377.2	374.2	437.1	508.9	461.0	431.1	446.0	434.1
72.5°	3960.5	3364.8	1380.0	341.3	341.3	392.2	458.0	416.1	386.2	389.2	377.2
75°	2469.7	2068.6	784.3	308.3	308.3	347.3	407.1	365.2	344.3	332.3	347.3
77.5°	1122.6	910.0	413.1	275.4	278.4	296.4	350.2	311.3	287.4	269.4	278.4
80°	416.1	371.2	269.4	236.5	242.5	245.5	281.4	248.5	227.5	215.5	209.5
82.5°	215.5	200.6	182.6	188.6	197.6	188.6	218.5	185.6	161.7	152.7	128.7
85°	107.8	104.8	110.8	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	62.9	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)