

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: P400540

Luminaire Tested: **ARCH-L-PA3-90-827-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-827-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11374 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

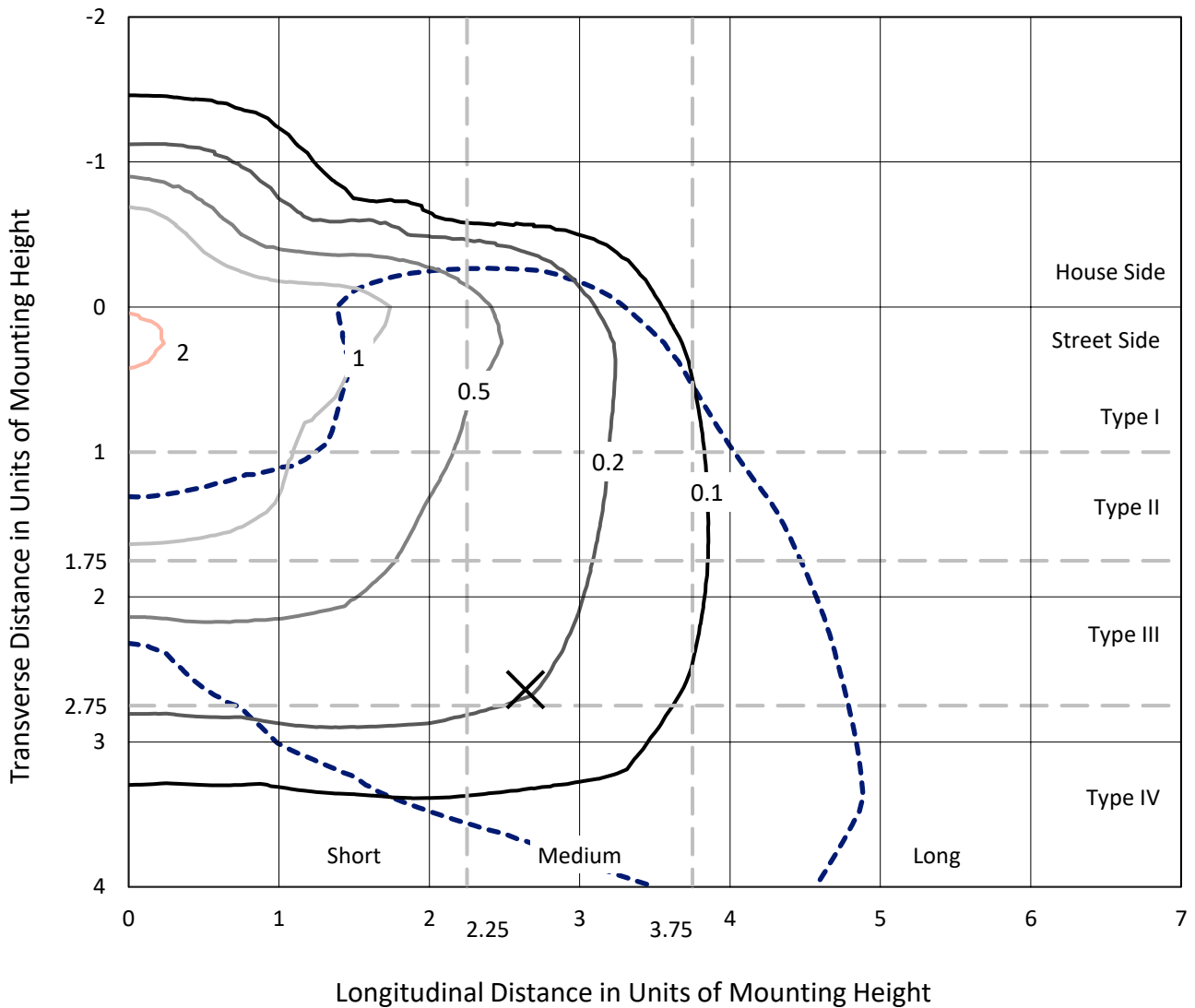
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

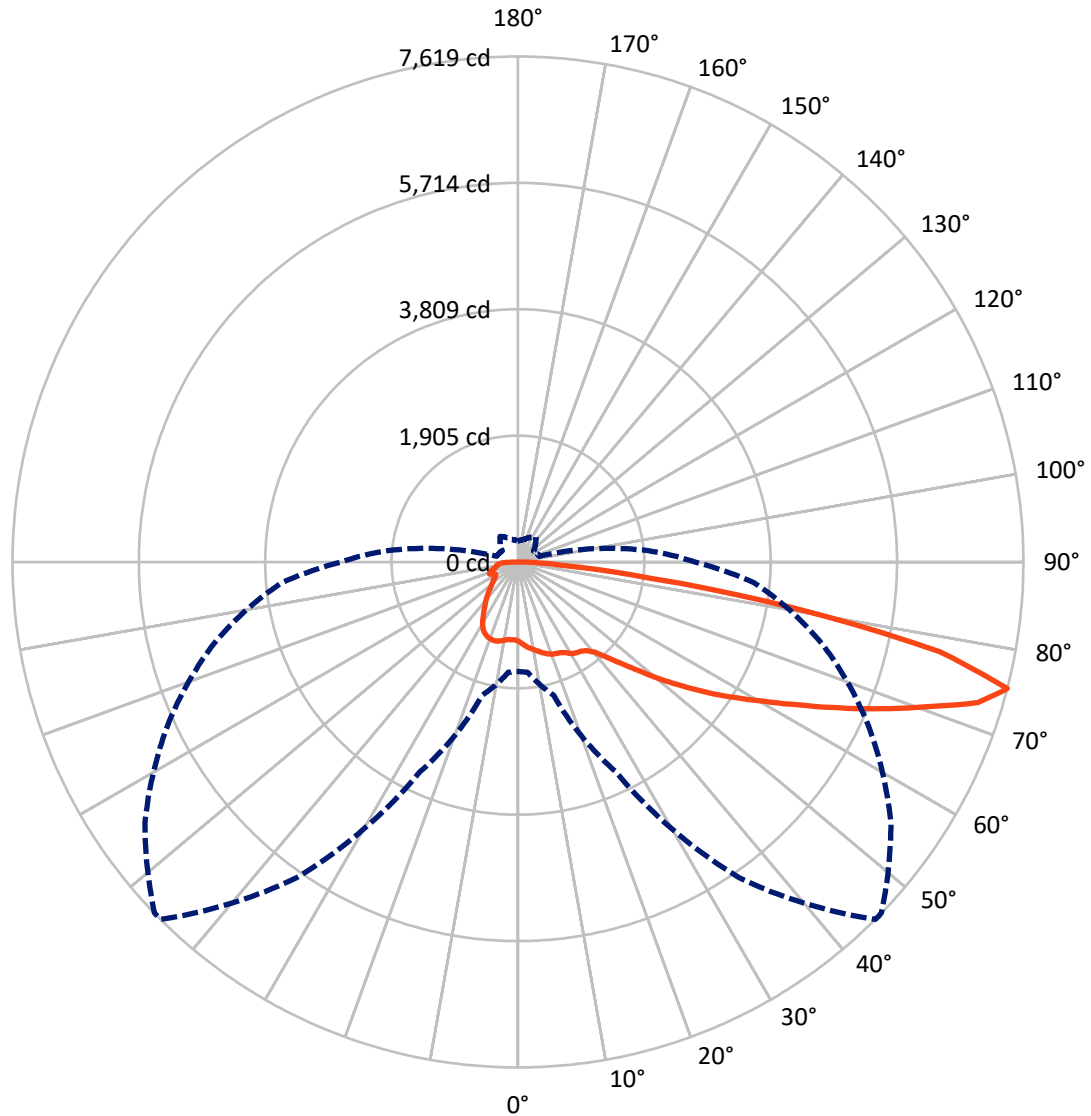
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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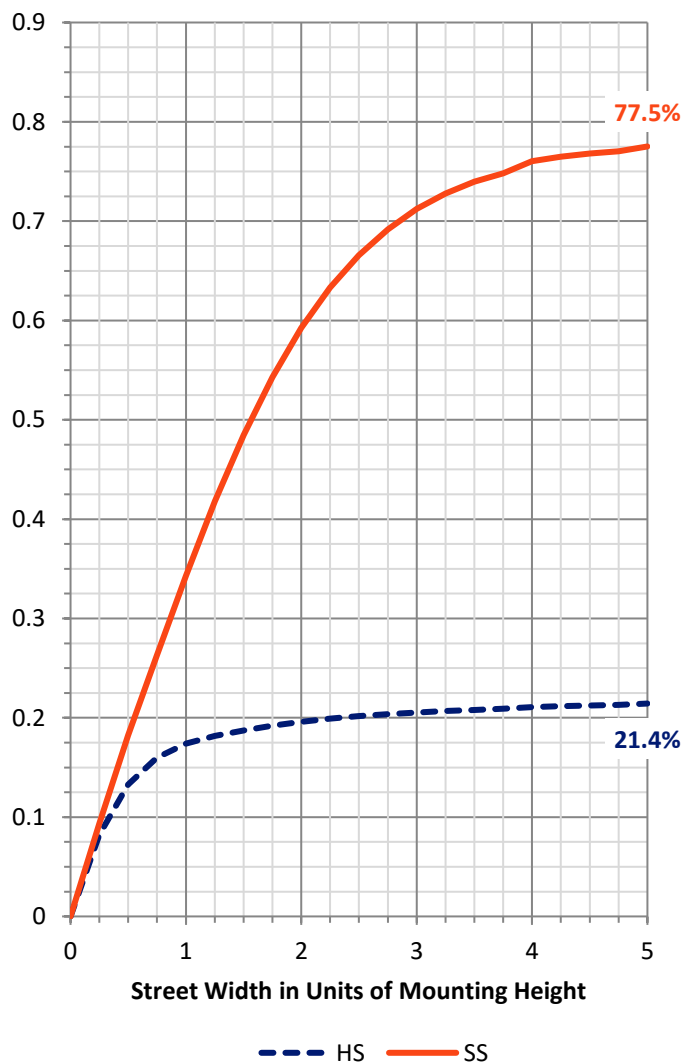
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2513.6	0.0	2513.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	8860.4	0.0	8860.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	11374.0	0.0	11374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	1.0
10°-20°	376.0	3.3
20°-30°	640.9	5.6
30°-40°	898.0	7.9
40°-50°	1319.3	11.6
50°-60°	2099.7	18.5
60°-70°	2986.9	26.3
70°-80°	2500.9	22.0
80°-90°	434.0	3.8
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°	11374.0	100.0
0°-180°	11374.0	100.0

Coefficient of Utilization



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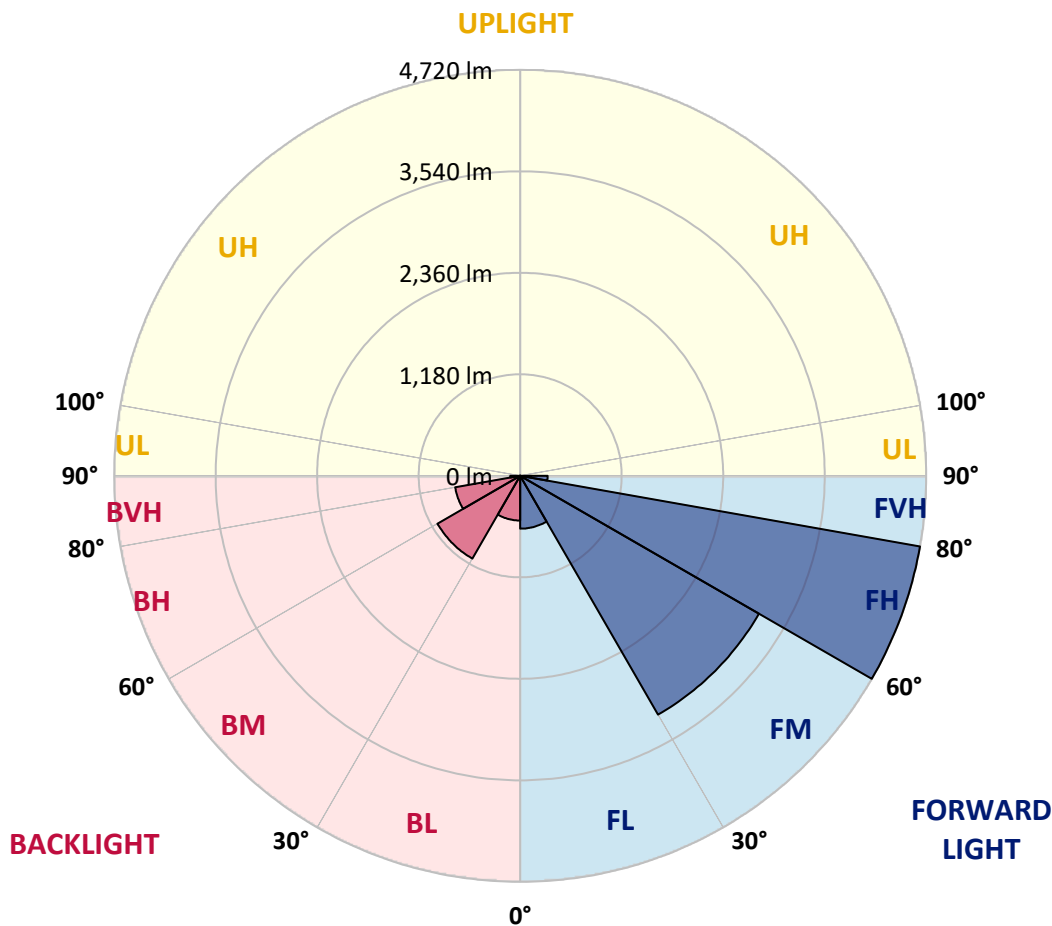
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.8	5.4			
FM (30°-60°)	3206.0	28.2			
FH (60°-80°)	4720.5	41.5			G2/5000
FVH (80°-90°)	319.1	2.8			G3/500
BL (0°-30°)	520.2	4.6	B2/1000		
BM (30°-60°)	1111.1	9.8	B2/2500		
BH (60°-80°)	767.3	6.7	B2/1000		G2/1000
BVH (80°-90°)	114.9	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5
2.5°	1262.9	1256.8	1253.8	1253.8	1241.6	1234.0	1232.5	1221.9	1212.8	1203.6	1196.0
5°	1335.9	1331.3	1322.2	1314.6	1297.9	1276.6	1273.5	1250.7	1228.0	1206.7	1188.4
7.5°	1402.7	1393.6	1383.0	1367.8	1340.4	1311.5	1307.0	1275.1	1243.2	1211.2	1186.9
10°	1459.0	1449.8	1434.6	1413.4	1378.4	1343.5	1338.9	1305.5	1272.0	1234.0	1199.1
12.5°	1512.1	1504.5	1481.8	1452.9	1411.8	1379.9	1375.4	1346.5	1311.5	1269.0	1223.4
15°	1557.7	1550.1	1525.8	1492.4	1445.3	1421.0	1414.9	1387.5	1352.6	1307.0	1259.9
17.5°	1580.5	1580.5	1554.7	1518.2	1474.2	1455.9	1451.4	1417.9	1386.0	1341.9	1294.8
20°	1588.1	1591.2	1572.9	1528.9	1490.9	1483.3	1478.7	1451.4	1414.9	1372.3	1328.3
22.5°	1592.7	1598.8	1583.6	1533.4	1501.5	1496.9	1493.9	1475.7	1446.8	1405.8	1361.7
25°	1607.9	1607.9	1597.3	1541.0	1515.2	1513.7	1513.7	1503.0	1483.3	1448.3	1404.2
27.5°	1630.7	1629.2	1615.5	1557.7	1545.6	1550.1	1548.6	1547.1	1533.4	1498.5	1451.4
30°	1668.7	1668.7	1653.5	1591.2	1583.6	1603.3	1604.8	1607.9	1586.6	1531.9	1493.9
32.5°	1726.4	1720.4	1705.2	1624.6	1612.4	1630.7	1633.7	1632.2	1614.0	1562.3	1544.1
35°	1904.2	1890.6	1835.9	1699.1	1638.3	1648.9	1650.4	1658.0	1661.1	1620.0	1610.9
37.5°	2215.8	2197.6	2114.0	1875.4	1720.4	1694.5	1693.0	1712.8	1729.5	1693.0	1693.0
40°	2554.7	2539.5	2490.9	2179.3	1872.3	1787.2	1781.1	1799.4	1820.7	1794.8	1802.4
42.5°	2846.5	2858.6	2863.2	2501.5	2100.3	1960.5	1943.8	1917.9	1951.4	1928.6	1959.0
45°	3065.3	3059.2	3142.8	2831.3	2395.1	2177.8	2155.0	2085.1	2127.6	2126.1	2193.0
47.5°	3297.8	3287.2	3322.2	3141.3	2731.0	2443.7	2408.8	2305.5	2369.3	2413.4	2524.3
50°	3518.2	3521.2	3533.4	3386.0	3095.7	2767.5	2723.4	2585.1	2676.3	2769.0	2925.5
52.5°	3805.4	3784.2	3769.0	3671.7	3504.5	3104.8	3076.0	2917.9	3045.6	3155.0	3363.2
55°	4056.2	4042.5	4033.4	4028.8	3846.5	3477.2	3446.8	3282.6	3466.5	3544.0	3851.0
57.5°	4323.7	4316.1	4364.7	4442.2	4369.3	3855.6	3823.7	3665.6	3870.8	3925.5	4379.9
60°	4519.7	4524.3	4658.0	4855.6	4805.4	4265.9	4227.9	4088.1	4264.4	4313.0	4908.8
62.5°	4521.2	4566.8	4876.9	5231.0	5288.7	4738.6	4694.5	4542.5	4668.7	4668.7	5382.9
65°	4089.6	4141.3	4837.3	5323.7	5778.1	5300.9	5258.3	5019.7	5066.8	5003.0	5828.2
67.5°	3659.5	3720.3	4375.3	5331.3	6121.5	5902.7	5852.5	5496.9	5416.4	5255.3	6139.8
70°	3373.8	3416.4	3963.5	5232.5	6328.2	6531.9	6493.9	5949.8	5691.4	5466.5	6074.4
72.5°	2840.4	2825.2	3348.0	4762.9	6443.7	7246.1	7214.2	6442.2	5930.0	5366.2	5180.8
75°	1648.9	1667.2	2077.5	3489.3	5808.5	7618.5	7615.4	6863.2	5825.2	4740.1	3569.9
77.5°	475.7	489.4	682.4	1533.4	3673.2	6498.4	6706.6	6276.5	4924.0	3378.4	1851.0
80°	208.2	218.8	296.4	510.6	1582.1	4244.6	4427.0	4244.6	2969.6	1550.1	726.4
82.5°	123.1	130.7	193.0	316.1	758.4	2019.7	2265.9	1978.7	1281.1	658.0	300.9
85°	69.9	72.9	110.9	200.6	477.2	706.7	793.3	743.2	624.6	373.9	158.1
87.5°	31.9	33.4	54.7	94.2	267.5	238.6	247.7	328.3	361.7	228.0	79.0
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°	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5
2.5°	1193.0	1188.4	1179.3	1176.3	1171.7	1173.2	1174.8	1174.8	1176.3	1171.7	1171.7
5°	1180.8	1173.2	1164.1	1164.1	1164.1	1176.3	1186.9	1193.0	1196.0	1196.0	1193.0
7.5°	1176.3	1167.2	1156.5	1159.6	1162.6	1177.8	1197.6	1217.3	1223.4	1223.4	1220.4
10°	1185.4	1176.3	1168.7	1173.2	1180.8	1193.0	1208.2	1226.4	1241.6	1243.2	1241.6
12.5°	1206.7	1196.0	1188.4	1197.6	1206.7	1214.3	1221.9	1229.5	1249.2	1252.3	1252.3
15°	1241.6	1231.0	1221.9	1229.5	1232.5	1232.5	1232.5	1232.5	1252.3	1255.3	1255.3
17.5°	1276.6	1267.5	1258.3	1259.9	1250.7	1238.6	1234.0	1232.5	1243.2	1252.3	1253.8
20°	1310.0	1302.4	1293.3	1278.1	1255.3	1232.5	1224.9	1224.9	1231.0	1244.7	1244.7
22.5°	1346.5	1337.4	1322.2	1287.2	1249.2	1217.3	1209.7	1214.3	1221.9	1240.1	1238.6
25°	1387.5	1375.4	1349.5	1284.2	1229.5	1191.5	1193.0	1206.7	1220.4	1240.1	1240.1
27.5°	1433.1	1416.4	1364.7	1259.9	1185.4	1148.9	1162.6	1194.5	1214.3	1235.6	1238.6
30°	1483.3	1468.1	1376.9	1217.3	1114.0	1080.5	1114.0	1165.6	1196.0	1215.8	1220.4
32.5°	1544.1	1531.9	1387.5	1162.6	1021.3	992.4	1041.0	1104.9	1153.5	1176.3	1180.8
35°	1620.0	1607.9	1401.2	1100.3	934.6	904.2	948.3	1013.7	1077.5	1106.4	1115.5
37.5°	1718.8	1700.6	1413.4	1033.4	861.7	826.7	848.0	907.3	965.0	1004.6	1015.2
40°	1845.0	1816.1	1424.0	957.4	797.9	758.4	766.0	794.8	828.3	863.2	876.9
42.5°	2022.8	1965.0	1425.5	876.9	732.5	696.0	693.0	702.1	702.1	702.1	706.7
45°	2270.5	2161.1	1428.6	800.9	665.6	627.7	618.5	615.5	592.7	548.6	545.6
47.5°	2583.6	2417.9	1442.2	737.1	595.7	562.3	550.1	538.0	495.4	449.8	440.7
50°	2984.8	2715.8	1469.6	676.3	536.5	513.7	498.5	469.6	422.5	387.5	378.4
52.5°	3446.8	3069.9	1495.4	612.5	492.4	477.2	459.0	424.0	373.9	352.6	349.5
55°	3977.2	3465.0	1547.1	556.2	454.4	443.8	427.0	393.6	355.6	340.4	338.9
57.5°	4519.7	3907.3	1620.0	506.1	417.9	411.9	411.9	383.0	358.7	352.6	352.6
60°	5042.5	4287.2	1563.8	459.0	384.5	387.5	416.4	408.8	390.6	398.2	402.7
62.5°	5448.3	4510.6	1269.0	421.0	360.2	387.5	462.0	462.0	440.7	437.7	437.7
65°	5621.5	4507.6	892.1	392.1	351.1	425.5	515.2	490.9	434.6	413.4	408.8
67.5°	5577.5	4310.0	615.5	372.3	348.0	465.0	539.5	471.1	407.3	389.1	375.4
70°	5189.9	3892.1	474.2	354.1	343.5	448.3	531.9	448.3	386.0	369.3	357.1
72.5°	4186.9	3121.6	393.6	335.9	325.2	414.9	506.1	427.0	369.3	351.1	338.9
75°	2670.2	1963.5	332.8	311.5	290.3	372.3	471.1	405.8	351.1	326.7	317.6
77.5°	1284.2	846.5	290.3	282.7	261.4	345.0	436.2	378.4	326.7	307.0	300.9
80°	519.8	387.5	252.3	253.8	240.1	328.3	411.9	352.6	302.4	281.2	270.5
82.5°	270.5	224.9	212.8	218.8	218.8	313.1	393.6	331.3	281.2	272.0	237.1
85°	145.9	139.8	164.1	176.3	190.0	282.7	366.3	308.5	256.8	220.4	212.8
87.5°	71.4	91.2	92.7	106.4	132.2	226.4	308.5	258.4	214.3	177.8	174.8
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)