

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: P265576

Luminaire Tested: **ARCH-L-AF72-90-D-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-90-D-U-T3-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11359.6 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

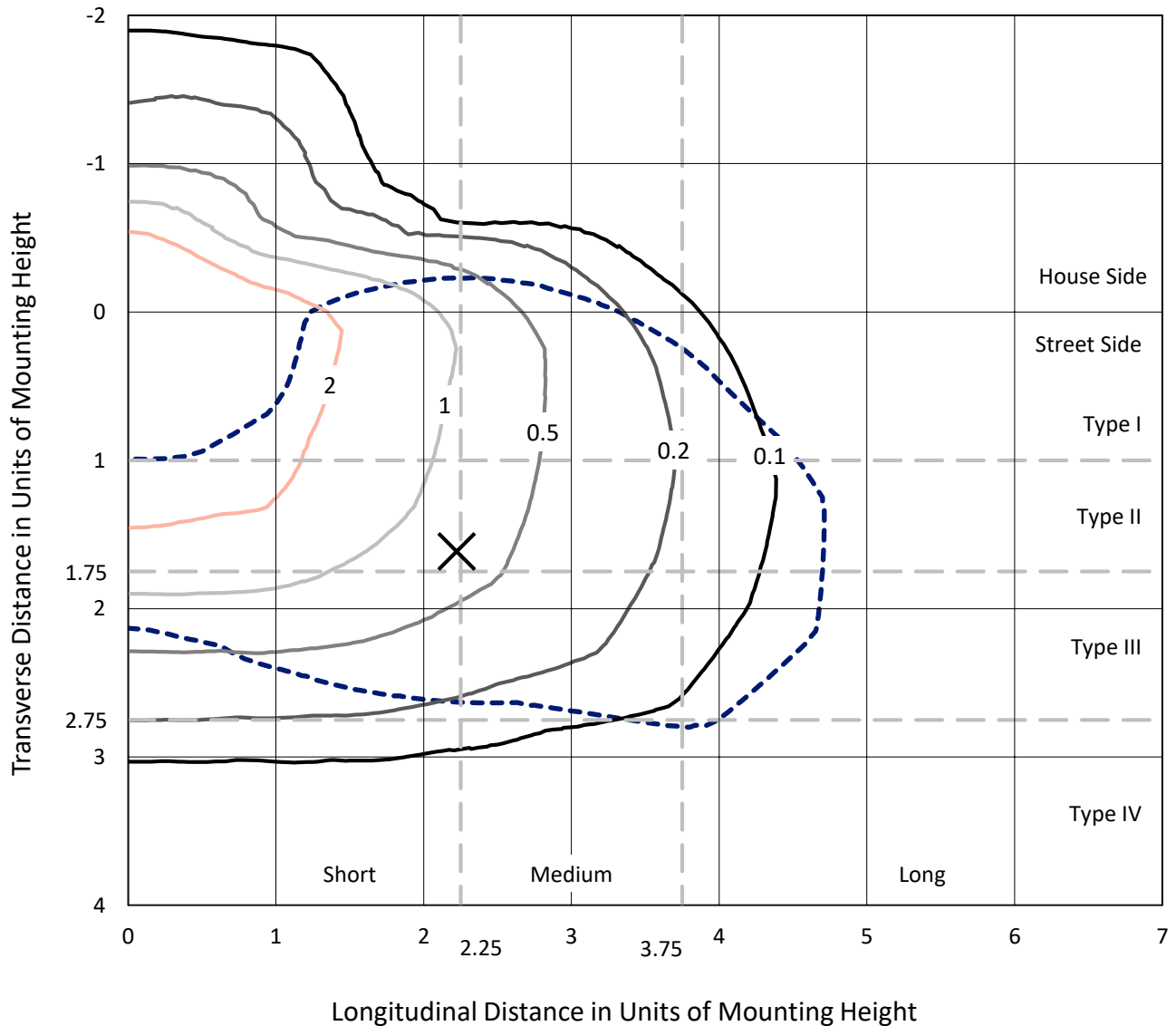
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P265576
 CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

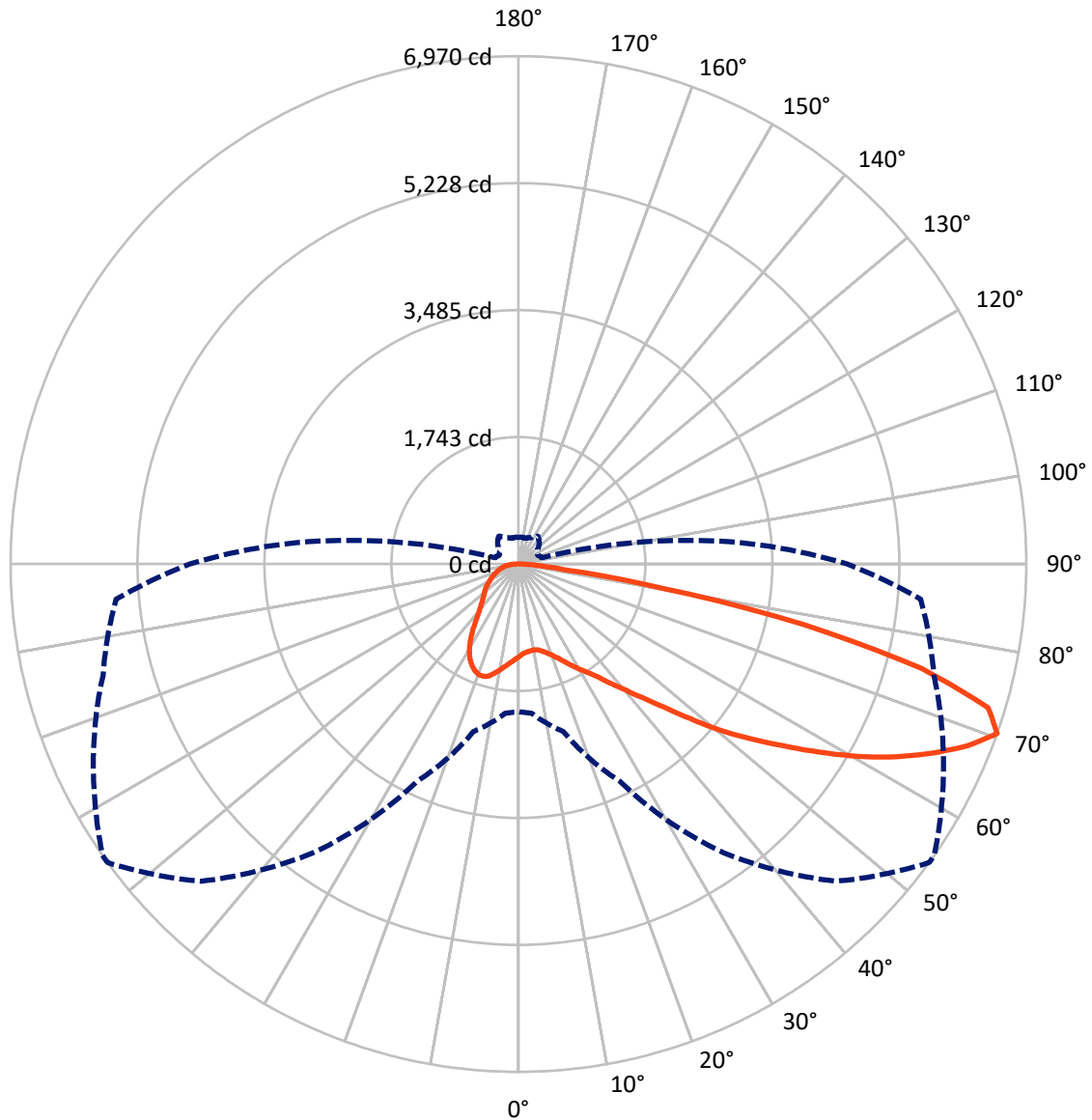


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P265576

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P265576

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7027

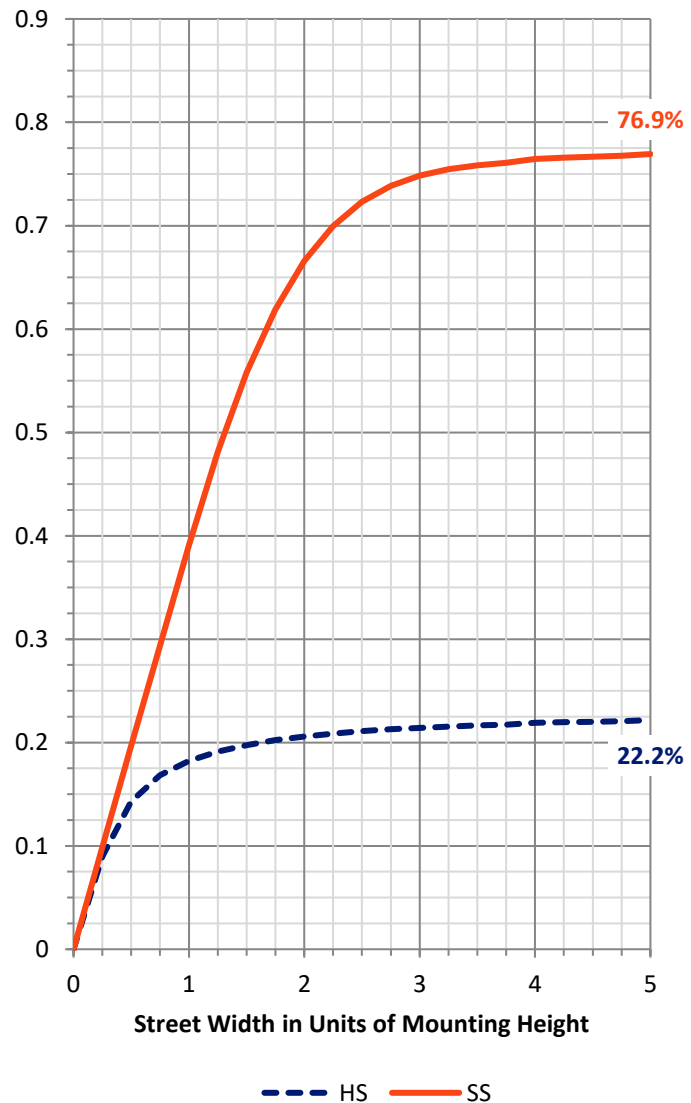
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2576.3	0.0	2576.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	8783.3	0.0	8783.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	11359.6	0.0	11359.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.1
10°-20°	398.5	3.5
20°-30°	692.4	6.1
30°-40°	1011.8	8.9
40°-50°	1588.0	14.0
50°-60°	2442.0	21.5
60°-70°	2983.6	26.3
70°-80°	1849.8	16.3
80°-90°	268.7	2.4
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°	11359.6	100.0
0°-180°	11359.6	100.0

Coefficient of Utilization



REPORT NUMBER: P265576

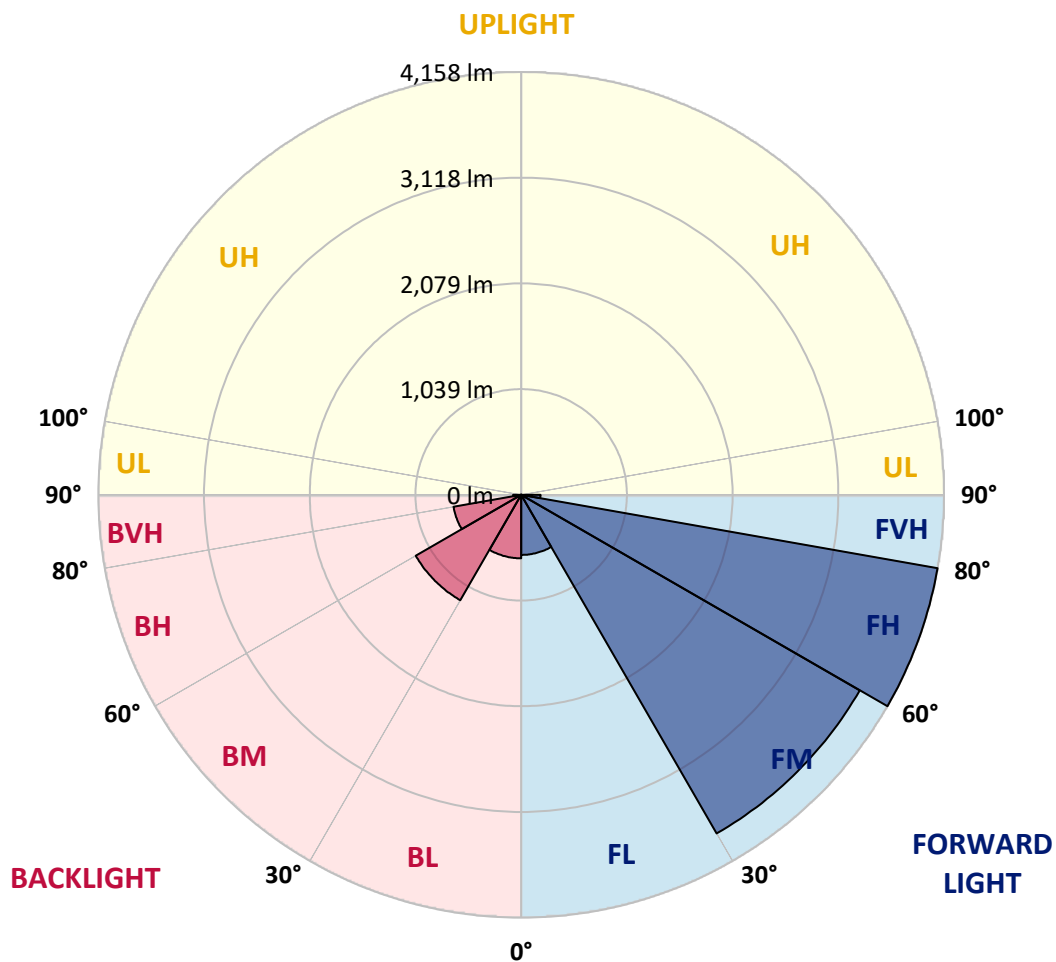
CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.0	5.2			
FM	(30°-60°)	3844.7	33.8			
FH	(60°-80°)	4157.8	36.6			G2/5000
FVH	(80°-90°)	189.8	1.7			G2/225
BL	(0°-30°)	624.6	5.5	B2/1000		
BM	(30°-60°)	1197.2	10.5	B2/2500		
BH	(60°-80°)	675.6	5.9	B2/1000		G2/1000
BVH	(80°-90°)	79.0	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P265576

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9
2.5°	1220.9	1216.8	1216.8	1223.1	1225.2	1231.3	1231.3	1233.5	1239.8	1250.1	1262.6
5°	1183.5	1181.5	1183.5	1192.0	1196.1	1208.5	1212.7	1214.8	1227.3	1243.9	1262.6
7.5°	1146.1	1144.0	1148.3	1160.7	1173.1	1192.0	1202.3	1204.4	1223.1	1245.9	1270.9
10°	1133.7	1131.5	1137.9	1148.3	1160.7	1181.5	1198.1	1200.1	1227.3	1254.3	1289.6
12.5°	1150.3	1148.3	1154.4	1164.8	1177.3	1192.0	1210.6	1212.7	1248.0	1283.4	1320.9
15°	1192.0	1192.0	1193.9	1200.1	1212.7	1225.2	1241.7	1243.9	1281.3	1322.9	1360.4
17.5°	1256.4	1252.1	1252.1	1250.1	1258.4	1264.6	1285.5	1287.6	1327.1	1364.5	1402.0
20°	1335.4	1333.4	1325.0	1314.6	1312.6	1316.6	1337.4	1339.6	1379.1	1410.2	1445.6
22.5°	1431.1	1433.2	1414.4	1391.6	1381.1	1387.4	1406.1	1408.3	1437.3	1464.3	1495.6
25°	1558.0	1551.7	1524.8	1491.4	1470.6	1470.6	1489.3	1489.3	1516.3	1533.0	1553.8
27.5°	1678.7	1666.1	1641.2	1593.4	1560.0	1566.3	1585.0	1585.0	1609.9	1616.2	1626.7
30°	1809.6	1797.1	1766.0	1705.6	1662.0	1657.8	1680.6	1678.7	1711.9	1709.8	1701.5
32.5°	1969.9	1963.5	1911.6	1834.6	1776.4	1761.8	1782.5	1784.8	1805.6	1799.2	1772.1
35°	2194.5	2192.5	2144.6	2009.4	1932.3	1905.3	1917.8	1917.8	1932.3	1915.7	1870.0
37.5°	2477.3	2481.5	2439.8	2240.3	2132.0	2086.4	2088.4	2086.4	2090.4	2071.8	2023.9
40°	2760.2	2770.6	2768.5	2527.3	2390.0	2311.0	2281.9	2277.7	2288.1	2279.8	2233.9
42.5°	3132.6	3157.5	3099.3	2880.9	2727.0	2593.9	2514.7	2504.4	2527.3	2537.7	2494.0
45°	3519.5	3511.1	3419.6	3261.6	3122.1	2951.7	2801.9	2785.3	2801.9	2833.1	2787.4
47.5°	3721.1	3715.0	3692.2	3613.1	3592.2	3396.8	3169.9	3155.4	3124.2	3168.0	3113.9
50°	4054.1	4060.2	3966.6	3958.3	4045.7	3937.5	3586.0	3552.7	3496.7	3532.0	3486.2
52.5°	4295.3	4268.2	4210.0	4282.8	4555.3	4497.1	3977.1	3962.6	3910.5	3902.1	3881.3
55°	4393.2	4393.2	4403.5	4572.0	4960.9	4883.9	4401.4	4416.0	4345.2	4287.0	4314.0
57.5°	4422.1	4434.8	4524.1	4802.9	5437.4	5185.6	4869.4	4890.3	4788.2	4671.8	4757.2
60°	4278.6	4316.1	4530.4	4933.9	5705.7	5505.9	5362.4	5368.6	5220.9	5050.5	5200.2
62.5°	3910.5	3956.2	4339.1	4988.0	5661.9	5834.6	5828.4	5842.8	5641.1	5428.9	5616.2
65°	3459.2	3504.8	3912.6	4836.1	5628.6	6069.6	6254.8	6294.2	6034.3	5749.3	5876.2
67.5°	2795.5	2855.9	3242.8	4324.4	5466.4	6263.1	6654.1	6695.7	6337.9	5915.7	5853.3
70°	2025.9	2055.1	2379.6	3286.4	4804.9	6157.0	6970.3	6968.2	6437.9	5903.2	5541.3
72.5°	975.6	998.5	1279.2	2040.5	3436.2	5225.1	6741.5	6780.9	6300.5	5722.3	4827.9
75°	401.5	424.3	518.0	861.1	1803.3	3452.9	5713.8	5807.5	5722.3	5135.7	3777.5
77.5°	249.5	258.0	303.6	445.1	823.7	1612.1	4000.0	4126.9	4534.6	4114.3	2494.0
80°	187.1	193.4	226.7	312.0	519.9	594.9	1986.4	2146.6	2747.7	2360.8	1129.4
82.5°	155.9	158.1	181.0	226.7	353.7	341.1	636.4	709.3	1281.3	900.7	389.0
85°	145.6	149.7	162.2	162.2	224.7	214.2	264.2	276.7	372.3	307.8	135.3
87.5°	74.9	70.7	143.5	126.9	116.5	104.1	112.3	120.6	139.3	147.7	60.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P265576

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9	1270.9
2.5°	1266.8	1273.0	1283.4	1293.7	1306.2	1320.9	1329.1	1339.6	1347.8	1343.8	1341.7
5°	1273.0	1283.4	1306.2	1327.1	1351.9	1381.1	1399.9	1420.7	1437.3	1441.5	1435.2
7.5°	1283.4	1302.2	1333.4	1370.8	1404.1	1441.5	1470.6	1499.7	1520.6	1524.8	1524.8
10°	1308.3	1329.1	1370.8	1420.7	1460.3	1499.7	1533.0	1555.9	1574.5	1583.0	1583.0
12.5°	1343.8	1368.7	1418.7	1478.9	1522.5	1560.0	1578.9	1589.2	1597.5	1605.8	1607.8
15°	1385.4	1412.3	1472.7	1537.2	1583.0	1601.7	1601.7	1599.5	1599.5	1603.7	1607.8
17.5°	1426.9	1456.1	1518.5	1587.0	1616.2	1605.8	1591.3	1585.0	1580.8	1578.9	1585.0
20°	1470.6	1499.7	1562.2	1626.7	1618.2	1574.5	1553.8	1539.2	1526.8	1520.6	1528.8
22.5°	1518.5	1545.4	1609.9	1653.6	1591.3	1524.8	1485.2	1462.4	1441.5	1429.1	1437.3
25°	1574.5	1601.7	1664.0	1662.0	1543.4	1449.9	1387.4	1350.0	1327.1	1314.6	1314.6
27.5°	1641.2	1664.0	1724.3	1641.2	1476.9	1350.0	1258.4	1223.1	1216.8	1206.5	1206.5
30°	1709.8	1728.5	1780.5	1593.4	1385.4	1218.9	1119.1	1102.4	1104.6	1094.1	1096.2
32.5°	1780.5	1799.2	1813.8	1522.5	1266.8	1071.1	1004.7	992.2	990.1	981.8	973.5
35°	1880.4	1907.5	1818.0	1426.9	1123.2	948.5	900.7	888.2	875.7	846.7	846.7
37.5°	2032.2	2061.3	1807.6	1308.3	975.6	852.9	809.2	792.6	771.7	742.5	732.2
40°	2240.3	2240.3	1784.8	1175.3	857.1	775.9	734.3	713.4	690.5	661.4	655.3
42.5°	2485.7	2427.4	1749.3	1040.1	769.6	723.9	686.5	663.6	636.4	603.2	599.1
45°	2772.7	2614.6	1699.5	919.3	705.1	692.7	669.7	630.3	584.4	549.1	542.8
47.5°	3051.5	2783.0	1651.5	834.0	651.0	680.1	661.4	594.9	532.4	482.6	476.3
50°	3357.2	2932.8	1595.4	763.4	609.5	671.8	651.0	542.8	474.2	438.9	434.7
52.5°	3663.0	3084.7	1535.1	688.6	574.0	655.3	626.1	505.4	472.1	424.3	418.2
55°	3985.4	3261.6	1464.3	605.3	532.4	621.9	592.8	503.4	486.7	424.3	409.7
57.5°	4299.5	3457.0	1350.0	524.3	486.7	572.0	580.3	491.0	455.5	420.1	403.5
60°	4646.8	3665.1	1160.7	455.5	447.3	530.4	563.6	463.9	420.1	407.7	399.3
62.5°	4925.5	3852.3	906.8	407.7	413.8	497.1	542.8	447.3	405.7	395.3	393.1
65°	5046.1	3856.5	651.0	366.1	380.6	466.0	522.0	432.7	393.1	389.0	386.9
67.5°	4919.4	3644.2	457.5	326.5	345.3	436.8	495.1	418.2	380.6	382.8	378.5
70°	4509.6	3197.1	334.9	289.2	312.0	405.7	466.0	399.3	366.1	370.2	364.1
72.5°	3773.2	2491.9	268.4	258.0	284.9	372.3	436.8	378.5	343.2	345.3	332.8
75°	2787.4	1651.5	224.7	230.9	253.9	341.1	399.3	351.5	318.3	309.9	301.7
77.5°	1657.8	848.7	185.1	201.8	226.7	303.6	357.7	318.3	291.2	276.7	270.4
80°	684.4	343.2	151.9	170.6	197.5	270.4	316.2	278.7	260.0	245.4	237.2
82.5°	272.5	168.5	120.6	139.3	166.4	235.0	276.7	245.4	226.7	216.3	193.4
85°	104.1	83.3	81.1	97.7	124.9	181.0	228.8	205.9	191.3	164.3	158.1
87.5°	41.6	37.4	37.4	47.8	70.7	114.4	164.3	143.5	149.7	118.5	120.6
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)