

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: P798643

Luminaire Tested: **ARCH1-20-740-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3644 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 23.5
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

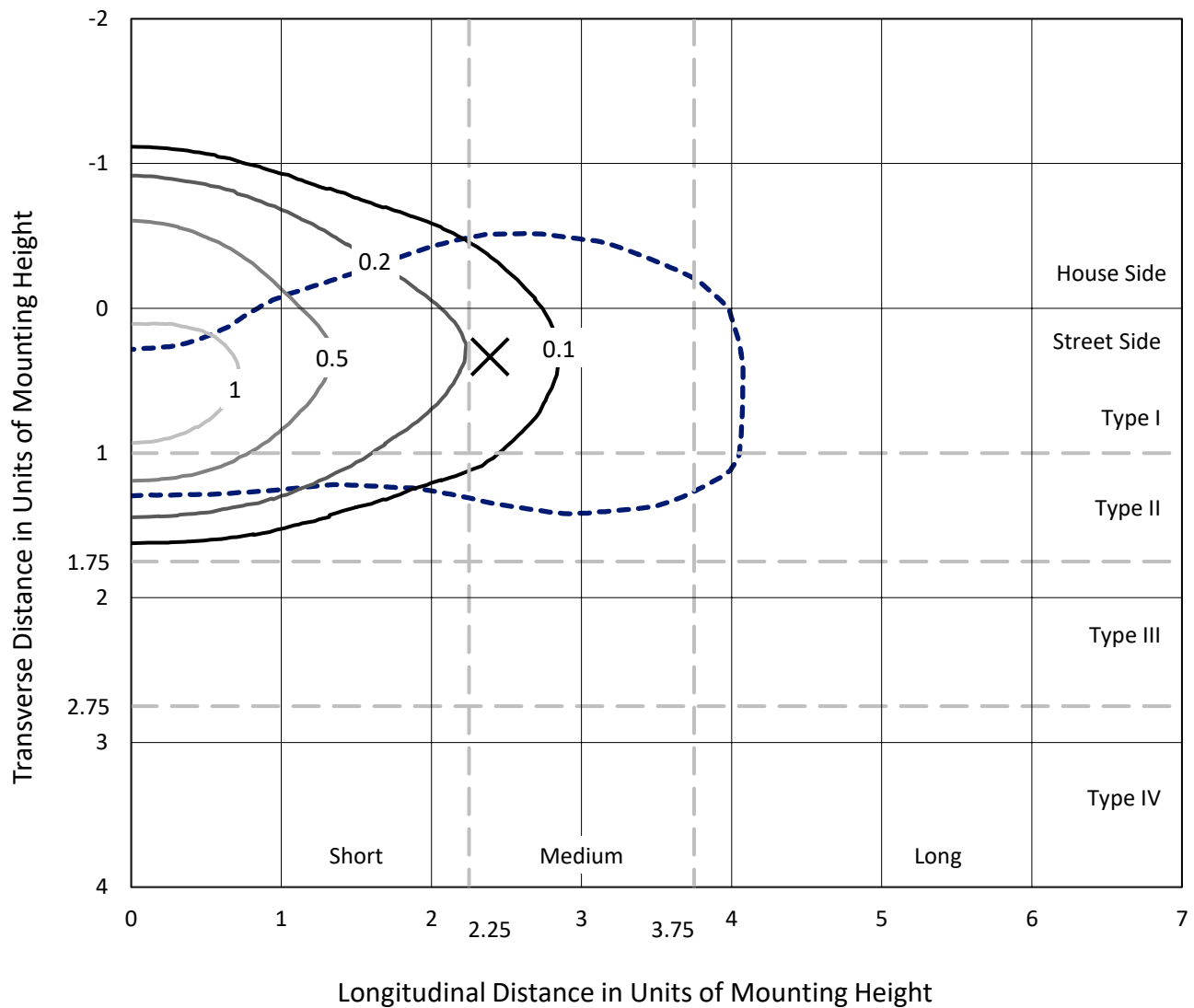


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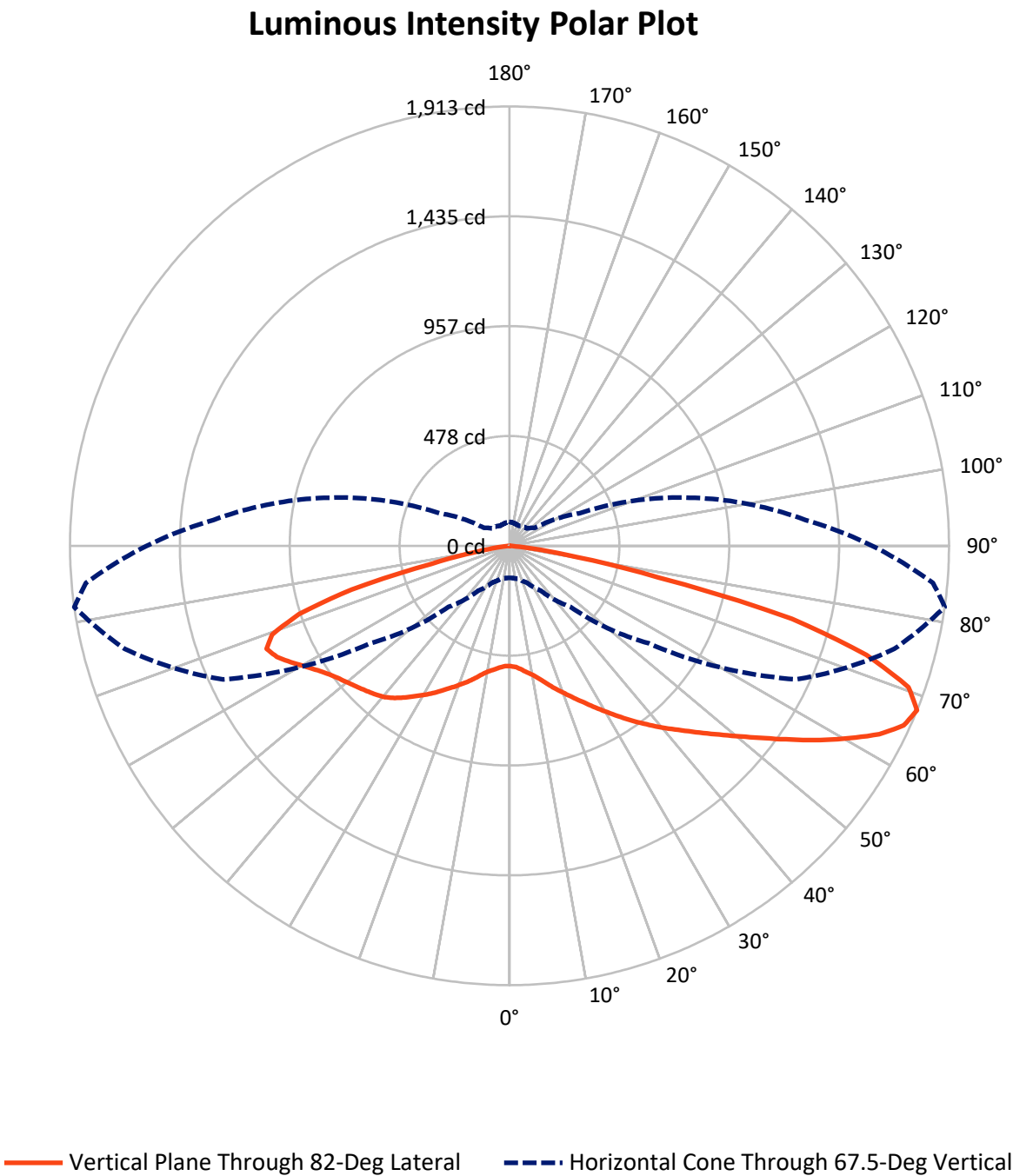
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type II - Medium - N/A

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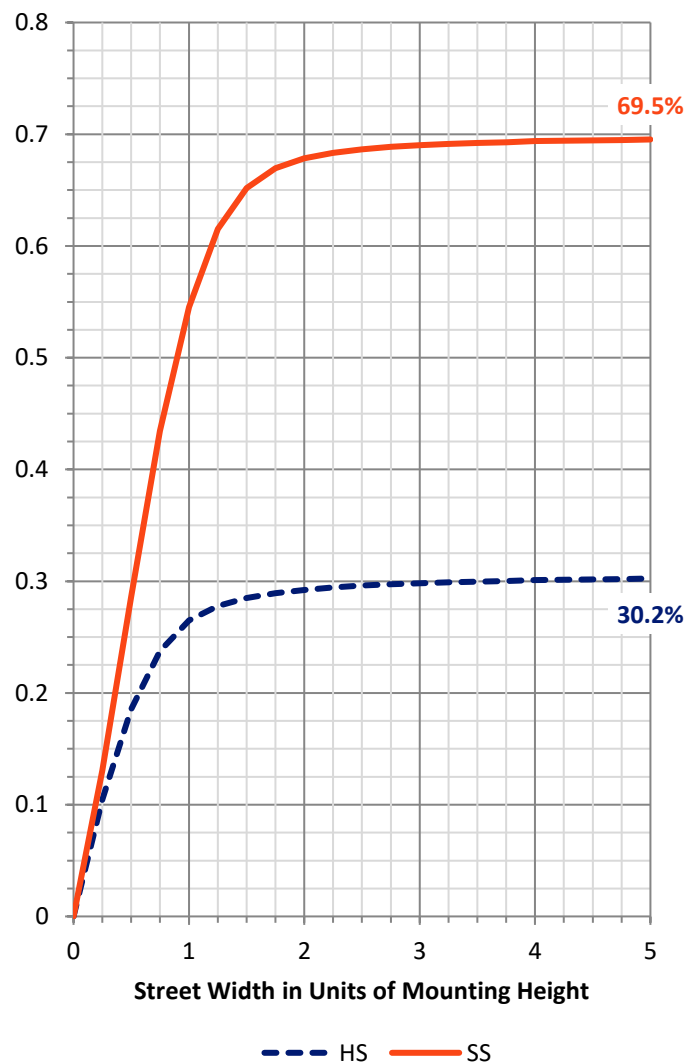
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1109.7	0.0	1109.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2534.3	0.0	2534.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	3644.0	0.0	3644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.5
10°-20°	195.0	5.4
20°-30°	391.9	10.8
30°-40°	615.6	16.9
40°-50°	749.9	20.6
50°-60°	708.6	19.4
60°-70°	585.1	16.1
70°-80°	318.6	8.7
80°-90°	25.1	0.7
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°	3644.0	100.0
0°-180°	3644.0	100.0

Coefficient of Utilization



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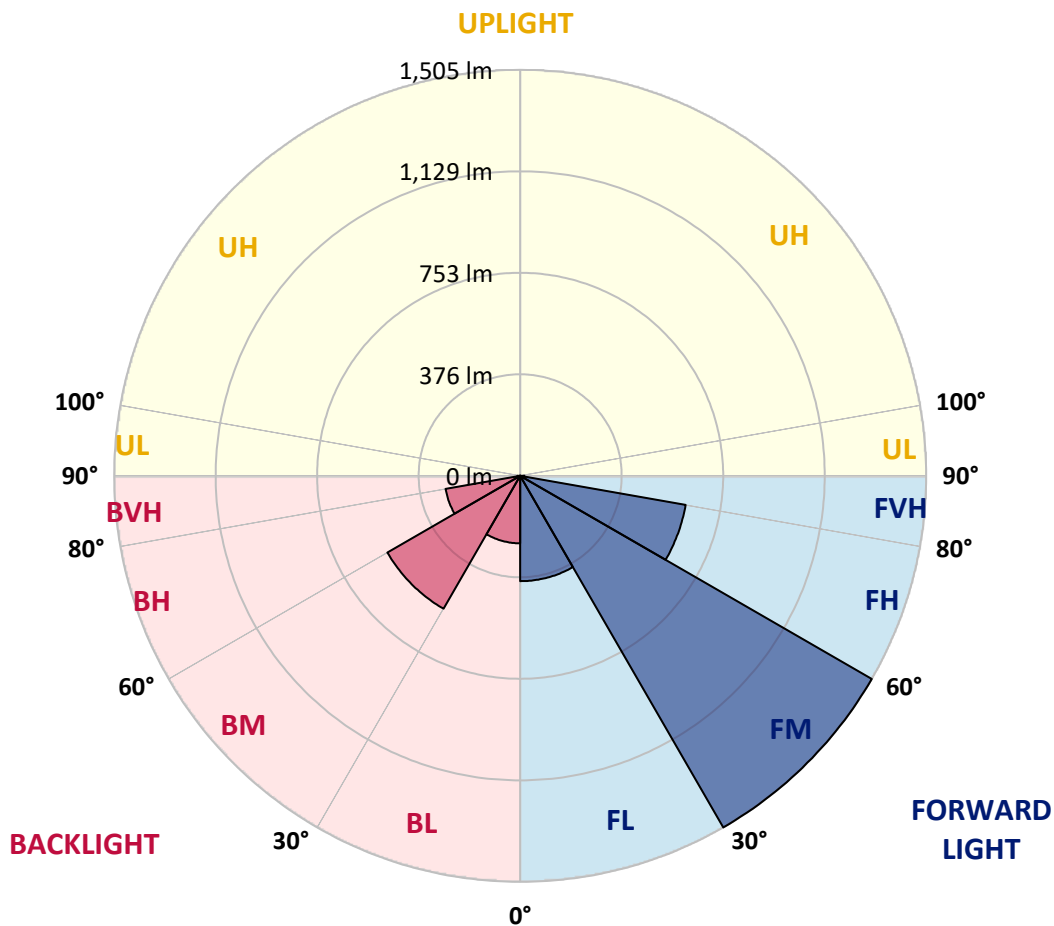
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	390.8	10.7			
FM	(30°-60°)	1505.5	41.3			
FH	(60°-80°)	622.9	17.1			G0/660
FVH	(80°-90°)	15.1	0.4			G1/100
BL	(0°-30°)	250.3	6.9	B1/500		
BM	(30°-60°)	568.7	15.6	B1/1000		
BH	(60°-80°)	280.9	7.7	B1/500		G1/500
BVH	(80°-90°)	9.9	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	547.6	547.6	551.9	551.9	548.2	542.3	540.8	534.4	528.6	528.6	529.1
5°	600.0	599.5	602.7	598.4	589.4	577.8	569.9	556.1	544.5	540.8	540.2
7.5°	664.0	663.5	665.1	658.2	641.3	622.2	606.4	584.1	565.1	557.2	555.0
10°	735.5	734.9	733.4	721.7	699.0	669.3	645.5	614.8	586.3	573.6	570.9
12.5°	817.5	816.4	812.7	795.8	764.6	726.5	692.1	652.4	614.3	596.8	591.0
15°	909.0	907.4	900.6	879.9	838.1	790.0	745.5	694.7	648.2	625.4	617.5
17.5°	1005.3	1005.3	994.7	964.0	917.5	857.7	802.7	738.1	683.6	655.6	646.0
20°	1103.2	1102.7	1089.4	1052.4	997.4	928.6	858.8	787.9	720.1	686.3	674.6
22.5°	1206.4	1205.3	1188.9	1146.6	1081.0	1003.2	921.7	837.1	760.3	719.6	704.8
25°	1324.9	1323.3	1303.2	1251.4	1173.6	1085.7	992.6	894.7	806.4	756.6	739.2
27.5°	1450.8	1448.7	1424.9	1364.6	1279.4	1173.6	1070.9	961.4	857.2	797.9	778.3
30°	1563.0	1561.4	1535.5	1473.6	1375.7	1260.9	1145.5	1028.1	910.6	841.8	817.5
32.5°	1647.7	1647.7	1624.4	1563.5	1461.9	1344.5	1220.7	1091.0	966.2	888.9	860.3
35°	1699.0	1700.6	1680.5	1631.8	1536.0	1423.3	1298.4	1165.1	1025.4	939.2	908.5
37.5°	1706.4	1711.7	1700.0	1667.2	1587.3	1488.9	1374.6	1236.5	1086.8	990.0	955.6
40°	1672.0	1675.7	1676.2	1663.5	1608.5	1536.0	1441.8	1312.2	1151.9	1043.4	1003.7
42.5°	1603.2	1605.9	1610.6	1614.3	1593.2	1556.7	1493.2	1382.6	1221.2	1097.9	1051.4
45°	1514.3	1513.8	1521.7	1537.6	1536.5	1545.0	1521.7	1446.6	1293.2	1159.8	1104.3
47.5°	1381.5	1378.9	1406.9	1442.9	1460.9	1500.6	1522.3	1496.9	1371.5	1228.1	1164.6
50°	1173.6	1170.9	1232.3	1317.0	1369.9	1430.2	1493.2	1527.0	1453.5	1304.8	1230.2
52.5°	920.7	918.0	995.8	1143.9	1259.3	1347.1	1434.4	1533.9	1531.3	1390.5	1304.3
55°	684.7	682.6	758.2	918.5	1105.3	1250.8	1362.5	1515.9	1604.3	1488.9	1394.2
57.5°	482.6	481.5	547.1	679.9	907.4	1133.4	1293.2	1481.0	1671.5	1595.8	1495.8
60°	338.6	337.0	384.7	487.3	686.3	956.1	1224.4	1434.4	1721.7	1701.1	1603.7
62.5°	228.0	227.0	260.9	346.6	487.3	736.0	1120.1	1403.2	1750.3	1806.9	1712.7
65°	173.0	172.5	187.8	234.9	345.0	528.6	954.5	1399.5	1754.0	1886.3	1805.3
67.5°	139.7	140.2	148.7	175.7	238.6	375.7	740.2	1376.2	1734.4	1913.3	1850.3
70°	114.3	114.3	118.0	136.0	176.2	253.4	516.9	1270.4	1679.9	1842.9	1796.9
72.5°	87.3	87.8	99.5	110.1	132.8	177.8	331.2	1051.4	1551.4	1624.9	1590.0
75°	69.3	68.8	75.7	90.5	103.2	127.0	203.2	754.0	1320.1	1269.9	1247.7
77.5°	49.7	49.2	54.5	67.2	78.3	89.9	121.2	380.4	718.0	659.8	643.4
80°	33.9	32.8	37.6	46.6	51.9	52.9	59.3	146.0	313.2	295.2	291.5
82.5°	17.5	17.5	20.1	26.5	27.0	27.5	26.5	47.1	103.7	96.8	92.6
85°	6.9	6.9	7.4	9.0	9.0	9.5	9.5	12.2	11.1	10.6	10.1
87.5°	0.5	0.5	1.1	1.1	1.6	1.6	1.6	2.1	2.6	2.6	2.6
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°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	528.1	525.9	519.1	517.5	516.4	514.8	515.4	511.7	510.1	510.6	508.5
5°	537.6	533.9	525.4	521.7	520.6	519.1	520.6	518.0	515.4	516.4	515.4
7.5°	550.8	545.5	534.9	531.2	530.7	529.1	531.2	529.1	527.0	528.1	525.9
10°	564.6	557.7	546.0	542.3	542.3	541.8	543.9	540.8	538.6	539.2	538.1
12.5°	584.7	575.7	563.0	559.8	558.2	559.8	560.3	556.1	552.4	552.9	551.3
15°	609.0	599.0	585.2	580.4	579.4	578.9	576.7	571.4	566.7	566.2	564.6
17.5°	635.5	622.8	606.4	601.6	596.8	595.3	590.0	583.1	575.7	575.7	573.6
20°	660.9	646.6	627.0	620.1	613.2	606.9	597.9	586.8	577.3	575.7	573.6
22.5°	688.4	671.4	648.7	638.6	626.5	613.8	598.4	583.6	571.4	568.8	567.2
25°	719.1	697.9	670.9	656.1	636.5	616.9	594.2	575.1	560.9	556.6	555.6
27.5°	752.9	727.5	694.7	673.0	644.5	613.8	584.7	561.9	544.5	539.2	537.6
30°	787.3	757.2	716.4	684.7	644.5	603.7	567.2	540.8	520.6	513.2	512.2
32.5°	821.7	787.9	736.0	691.0	638.1	586.8	544.5	513.2	490.5	481.5	483.6
35°	863.0	821.7	754.0	693.7	627.5	566.2	518.5	482.0	458.7	450.8	452.4
37.5°	905.8	855.6	768.3	691.6	612.7	542.9	489.4	454.0	424.9	411.1	412.7
40°	942.9	886.3	778.3	684.1	593.7	516.4	460.9	414.3	374.1	360.9	359.3
42.5°	977.8	909.0	783.6	673.0	572.0	485.7	420.1	360.3	320.1	303.7	304.2
45°	1014.3	931.2	781.5	658.2	545.0	449.7	367.7	307.4	272.0	257.1	257.7
47.5°	1056.1	955.1	779.4	642.3	512.2	403.2	317.5	260.9	230.2	219.6	218.5
50°	1100.6	981.5	776.7	622.8	475.7	351.3	267.7	217.5	191.5	184.7	183.1
52.5°	1150.8	1010.1	775.2	599.5	431.8	296.3	223.3	179.4	161.9	157.1	156.6
55°	1211.1	1043.4	777.3	571.4	378.8	244.5	185.7	154.5	142.9	140.2	139.7
57.5°	1284.7	1086.3	783.6	538.6	323.3	199.5	158.2	139.2	131.7	129.6	129.6
60°	1364.6	1135.0	795.3	501.6	267.7	164.6	140.2	127.0	123.8	126.5	126.5
62.5°	1450.8	1192.1	815.9	456.6	215.9	139.2	125.9	116.9	114.8	120.1	120.6
65°	1530.7	1247.7	829.1	402.7	171.4	120.6	114.8	106.9	107.9	113.2	112.7
67.5°	1579.9	1293.7	810.6	334.9	136.0	106.9	103.2	96.3	98.9	103.2	103.7
70°	1549.8	1267.8	719.1	252.9	106.4	93.1	90.5	86.2	88.4	93.7	95.8
72.5°	1402.2	1135.5	559.3	170.9	85.7	78.3	79.4	77.3	79.9	84.7	89.4
75°	1138.1	858.2	375.1	109.5	67.7	66.7	68.3	66.7	67.7	72.5	75.1
77.5°	594.2	418.5	186.8	68.3	50.3	51.9	54.5	55.0	58.2	59.3	60.3
80°	277.3	188.4	77.8	38.1	33.3	36.5	41.8	42.3	43.4	45.0	45.5
82.5°	90.5	56.6	36.0	20.6	19.0	20.6	27.0	32.3	32.8	36.0	36.0
85°	9.5	5.8	7.9	8.5	7.4	9.0	12.2	11.6	5.3	3.2	3.2
87.5°	2.6	2.1	2.6	2.6	2.1	2.1	1.6	0.5	0.0	0.0	0.0
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)