

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: P798792

Luminaire Tested: **ARCH1-30-750-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

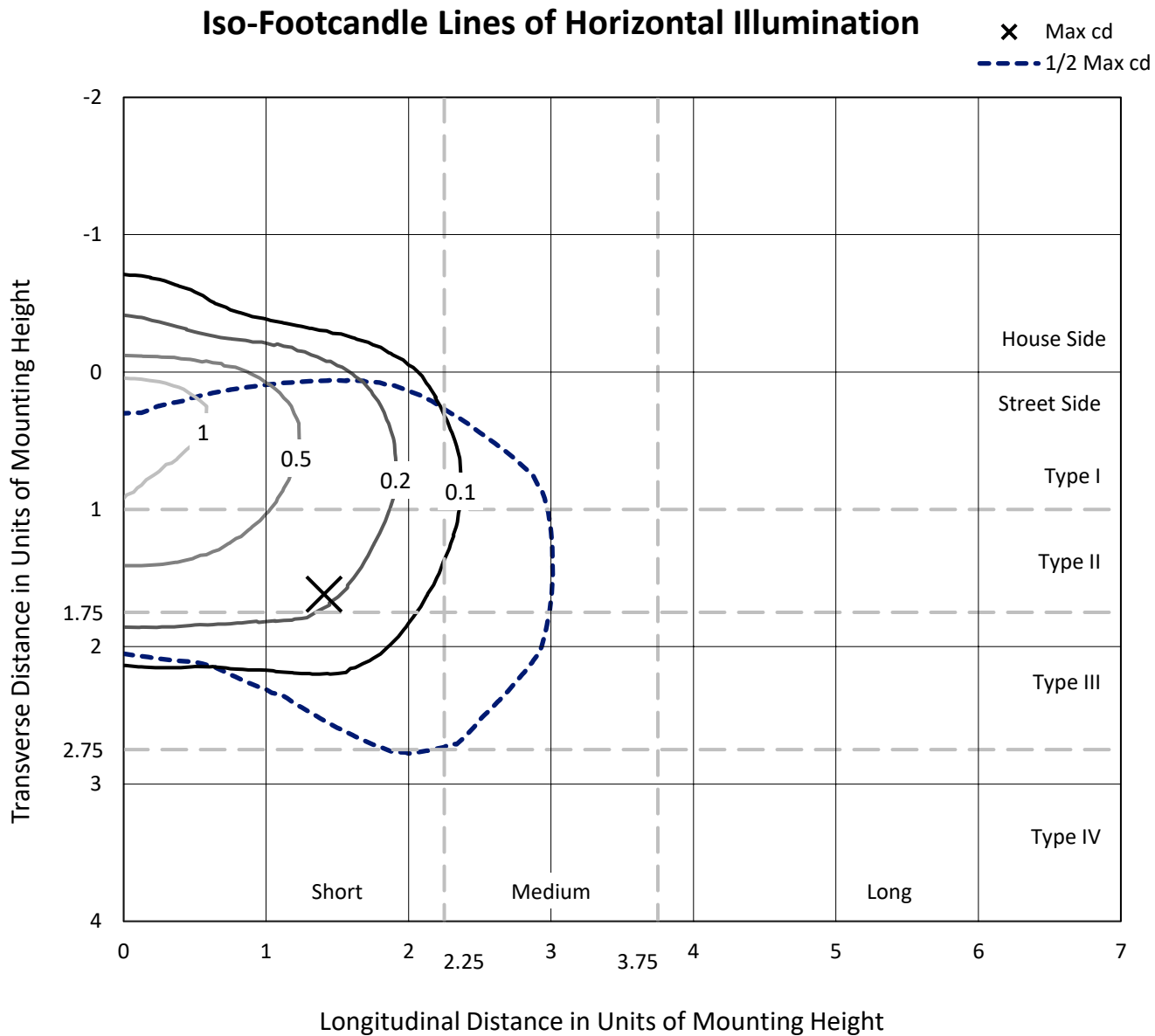
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3300 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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

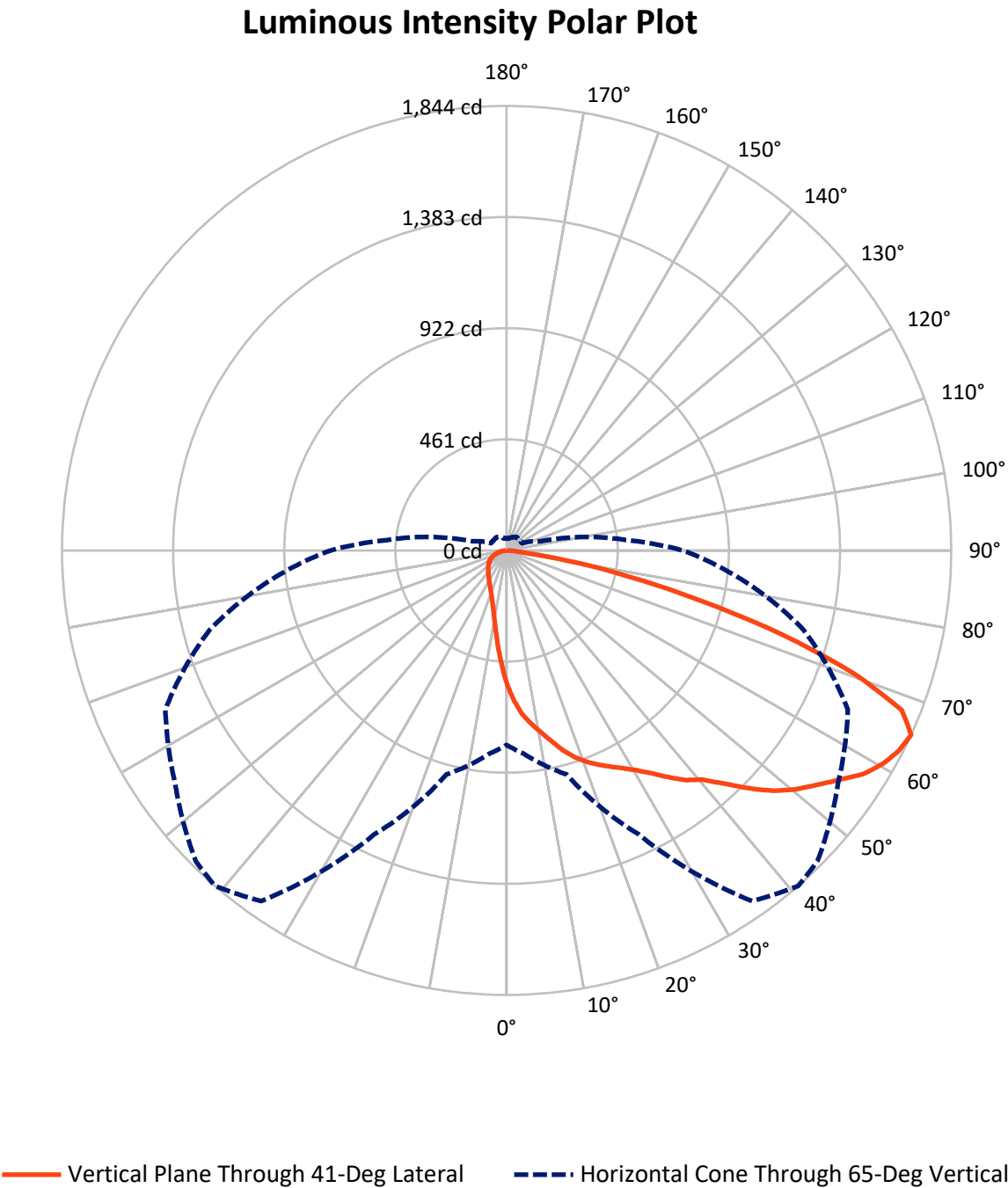


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Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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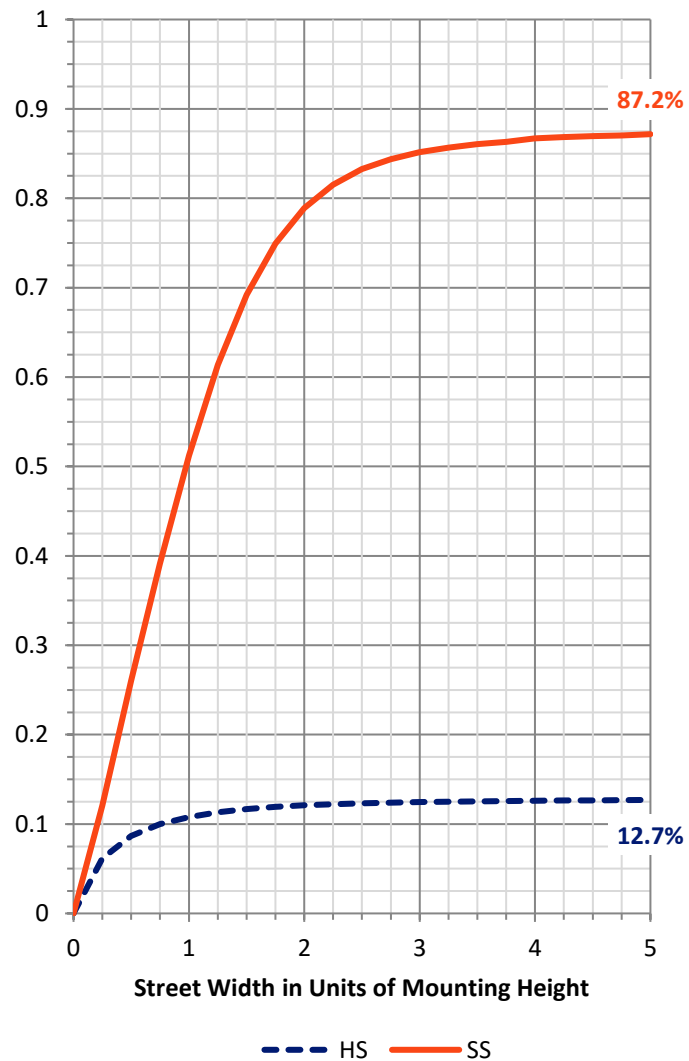
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	423.7	0.0	423.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2876.3	0.0	2876.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	3300.0	0.0	3300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	1.6
10°-20°	157.1	4.8
20°-30°	270.3	8.2
30°-40°	409.9	12.4
40°-50°	600.5	18.2
50°-60°	758.3	23.0
60°-70°	711.1	21.5
70°-80°	316.9	9.6
80°-90°	23.5	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°	3300.0	100.0
0°-180°	3300.0	100.0

Coefficient of Utilization



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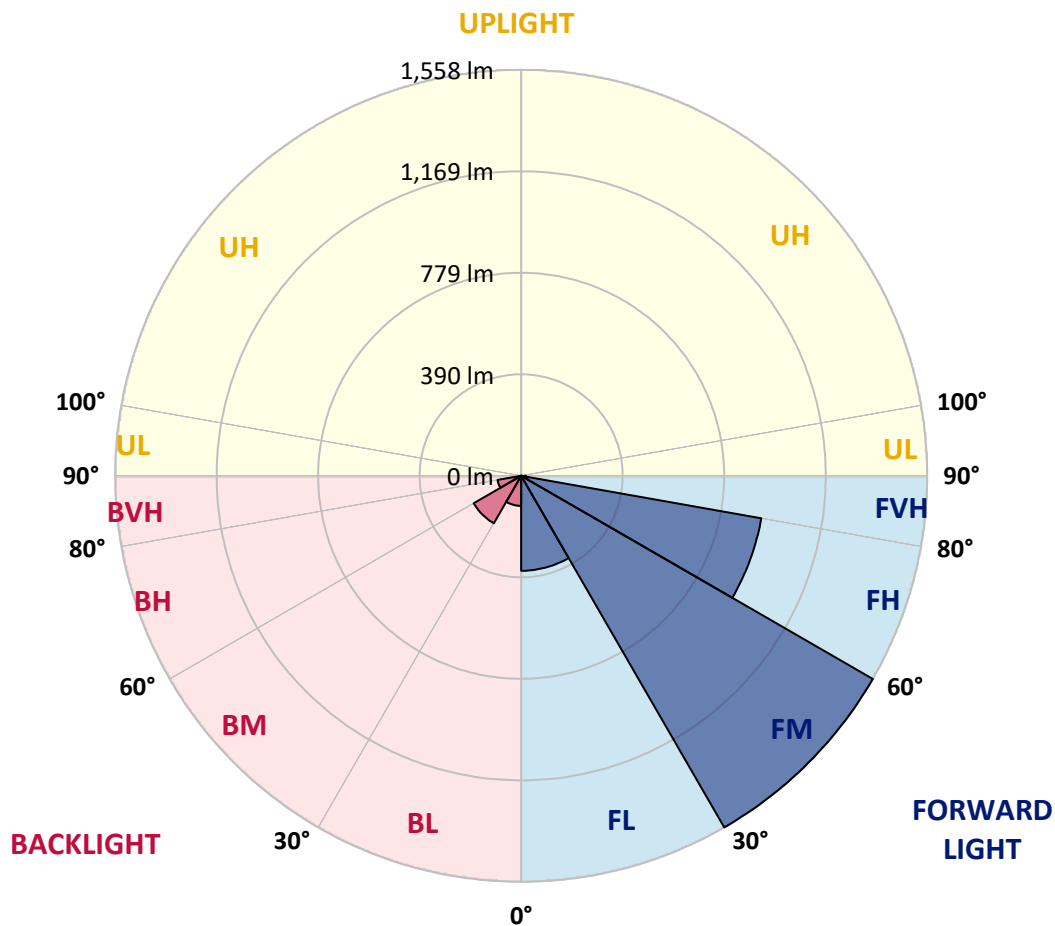
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.4	11.0			
FM	(30°-60°)	1558.4	47.2			
FH	(60°-80°)	936.0	28.4			G1/1800
FVH	(80°-90°)	17.5	0.5			G1/100
BL	(0°-30°)	115.3	3.5	B1/500		
BM	(30°-60°)	210.4	6.4	B0/220		
BH	(60°-80°)	92.0	2.8	B0/110		G0/110
BVH	(80°-90°)	5.9	0.2			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3
2.5°	648.6	646.5	645.1	637.5	637.5	627.0	627.7	618.0	606.1	587.4	567.2
5°	709.8	707.1	703.6	695.9	693.1	682.7	681.3	667.4	647.2	614.5	578.3
7.5°	763.4	760.6	755.8	744.6	737.0	724.5	721.0	702.9	680.6	640.2	589.4
10°	812.1	810.0	803.8	789.9	779.4	764.1	757.9	733.5	705.7	661.1	598.5
12.5°	861.5	858.8	850.4	838.6	826.1	808.0	800.3	769.0	733.5	684.1	611.7
15°	907.5	903.3	897.0	884.5	873.4	856.0	847.6	810.7	767.6	709.8	629.1
17.5°	937.4	933.9	928.4	921.4	912.4	899.1	890.8	854.6	801.7	734.9	647.2
20°	955.5	954.1	952.0	947.8	943.7	934.6	928.4	894.3	838.6	759.2	664.6
22.5°	969.4	968.0	967.3	967.3	968.0	964.5	960.4	931.1	874.1	785.0	680.6
25°	991.0	990.3	988.9	987.5	992.4	993.1	991.7	971.5	918.6	819.1	700.8
27.5°	1020.9	1018.8	1016.0	1014.7	1019.5	1023.0	1025.8	1011.9	965.9	853.9	723.8
30°	1066.8	1060.6	1053.6	1048.8	1052.2	1057.8	1064.1	1055.7	1014.7	897.0	747.4
32.5°	1121.1	1113.5	1097.5	1088.4	1097.5	1101.6	1106.5	1102.3	1065.5	943.7	771.1
35°	1187.2	1178.2	1161.5	1148.3	1164.3	1155.2	1153.1	1149.0	1113.5	989.6	797.5
37.5°	1297.2	1284.0	1257.5	1228.3	1228.3	1208.8	1201.2	1188.6	1156.6	1030.7	823.3
40°	1424.5	1407.1	1373.0	1329.9	1290.2	1249.9	1245.0	1236.0	1207.4	1078.0	852.5
42.5°	1564.4	1531.0	1483.7	1431.5	1367.5	1321.6	1310.4	1284.7	1256.8	1126.0	881.7
45°	1719.6	1650.0	1581.1	1554.7	1448.9	1407.1	1386.3	1339.6	1308.3	1176.1	912.4
47.5°	1744.7	1690.4	1644.5	1640.3	1524.8	1490.0	1466.3	1399.5	1364.0	1229.7	944.4
50°	1730.8	1698.0	1702.9	1686.2	1580.4	1557.5	1539.4	1463.5	1419.0	1281.2	973.6
52.5°	1672.3	1690.4	1718.2	1687.6	1633.3	1614.5	1605.5	1532.4	1470.5	1328.5	1000.0
55°	1602.7	1615.2	1675.1	1712.7	1694.6	1677.9	1669.5	1612.4	1521.3	1368.2	1024.4
57.5°	1501.1	1495.5	1561.6	1708.5	1758.6	1748.8	1739.8	1691.1	1568.6	1396.7	1039.7
60°	1348.7	1336.9	1420.4	1625.0	1779.5	1794.8	1790.6	1743.3	1604.8	1396.0	1033.4
62.5°	1084.9	1114.2	1229.7	1488.6	1788.5	1827.5	1819.8	1747.5	1616.6	1355.7	993.8
65°	806.6	848.3	961.8	1300.7	1776.0	1844.2	1823.3	1679.3	1561.6	1275.6	906.8
67.5°	581.1	618.0	700.8	1070.3	1655.6	1767.6	1743.3	1567.9	1435.0	1162.2	786.4
70°	397.4	423.8	480.2	779.4	1413.4	1528.2	1512.9	1401.6	1235.3	1027.2	638.9
72.5°	280.5	291.6	327.8	514.3	1073.8	1199.1	1181.0	1153.1	992.4	853.9	496.9
75°	210.2	217.1	236.6	332.6	724.5	830.9	814.2	830.2	741.2	646.5	361.9
77.5°	79.3	86.3	134.3	212.3	428.7	510.1	493.4	503.1	412.0	326.4	180.2
80°	21.6	23.0	44.5	100.9	194.9	254.0	231.0	198.3	153.1	150.3	95.3
82.5°	9.0	10.4	20.2	54.3	69.6	69.6	58.5	72.4	58.5	70.3	45.9
85°	3.5	4.2	4.9	13.9	9.0	9.7	10.4	13.9	11.8	14.6	10.4
87.5°	0.0	0.0	0.0	0.7	0.7	1.4	0.7	1.4	2.1	2.1	2.1
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°	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3
2.5°	558.8	551.2	540.0	521.9	503.1	492.7	479.5	477.4	463.5	462.1	456.5
5°	562.3	546.3	517.8	483.0	448.9	422.4	402.9	392.5	372.3	372.3	366.7
7.5°	565.1	540.0	494.1	442.6	396.0	360.5	334.0	322.9	304.8	303.4	299.2
10°	565.8	532.4	468.4	401.5	344.5	308.3	282.5	270.0	254.0	252.6	249.8
12.5°	571.3	528.2	445.4	366.1	307.6	268.6	243.6	233.1	220.6	219.2	216.4
15°	580.4	528.2	425.9	336.1	274.9	238.7	217.1	207.4	198.3	196.9	195.6
17.5°	589.4	526.8	406.4	308.3	247.7	215.0	196.2	188.6	181.6	180.9	179.5
20°	597.8	526.1	386.9	284.6	226.9	195.6	180.9	174.0	168.4	168.4	167.7
22.5°	606.1	524.7	368.1	262.4	208.8	180.9	168.4	160.8	156.6	156.6	155.9
25°	618.7	524.7	350.7	243.6	194.2	169.8	157.3	151.7	148.2	147.5	147.5
27.5°	633.3	528.9	335.4	226.9	181.6	158.7	148.9	143.4	139.2	137.8	138.5
30°	649.3	532.4	321.5	212.3	169.8	150.3	139.9	134.3	130.1	128.7	129.4
32.5°	665.3	536.6	309.0	199.0	158.0	142.7	132.2	126.0	121.8	121.1	121.1
35°	682.7	540.7	296.5	187.9	148.2	135.0	125.3	118.3	115.5	114.1	114.8
37.5°	700.1	547.7	284.6	177.5	141.3	128.0	119.0	112.0	110.0	109.3	109.3
40°	721.0	558.1	279.8	170.5	135.0	121.8	114.1	107.2	105.1	105.1	105.1
42.5°	738.4	566.5	275.6	162.8	130.1	116.2	109.3	103.7	102.3	101.6	102.3
45°	755.8	574.1	270.0	155.9	123.9	110.7	105.1	99.5	98.1	98.1	98.1
47.5°	773.2	578.3	262.4	148.9	118.3	105.8	100.9	96.0	94.6	94.6	94.6
50°	787.1	581.8	251.2	141.3	112.0	101.6	96.7	91.9	90.5	90.5	90.5
52.5°	801.0	582.5	239.4	132.2	105.8	96.7	92.6	87.7	86.3	85.6	85.6
55°	813.5	581.8	225.5	121.8	98.8	91.2	87.7	83.5	80.7	77.9	79.3
57.5°	822.6	581.1	209.5	111.3	91.9	85.6	84.2	78.6	73.1	66.1	67.5
60°	819.1	573.4	192.1	98.1	84.2	80.0	80.0	72.4	62.6	59.2	59.8
62.5°	796.8	551.9	174.0	84.2	76.6	74.5	73.8	65.4	57.8	54.3	55.0
65°	730.0	497.6	147.5	71.7	68.9	68.2	68.2	60.5	53.6	49.4	50.1
67.5°	628.4	417.6	120.4	60.5	61.2	62.6	62.6	55.7	48.7	44.5	45.2
70°	503.8	326.4	96.0	52.2	52.9	55.0	56.4	50.1	43.8	39.7	39.7
72.5°	379.3	247.7	77.2	43.8	47.3	47.3	49.4	44.5	38.3	34.1	34.8
75°	274.9	177.5	61.2	36.9	41.1	40.4	40.4	37.6	32.7	29.9	29.9
77.5°	130.1	93.3	48.7	26.4	32.0	31.3	32.0	29.9	27.8	25.1	25.7
80°	64.0	45.9	31.3	18.8	22.3	23.0	25.1	23.7	23.0	20.9	20.9
82.5°	30.6	18.1	14.6	13.2	15.3	16.0	17.4	17.4	18.1	16.7	16.7
85°	8.4	4.9	6.3	8.4	9.7	10.4	11.8	12.5	12.5	11.8	12.5
87.5°	2.1	2.1	2.8	4.2	4.9	5.6	6.3	6.3	2.8	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)