

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: P799496

Luminaire Tested: **ARCH2-30-727-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799496
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: ARCH2-30-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3409 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 34.4
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

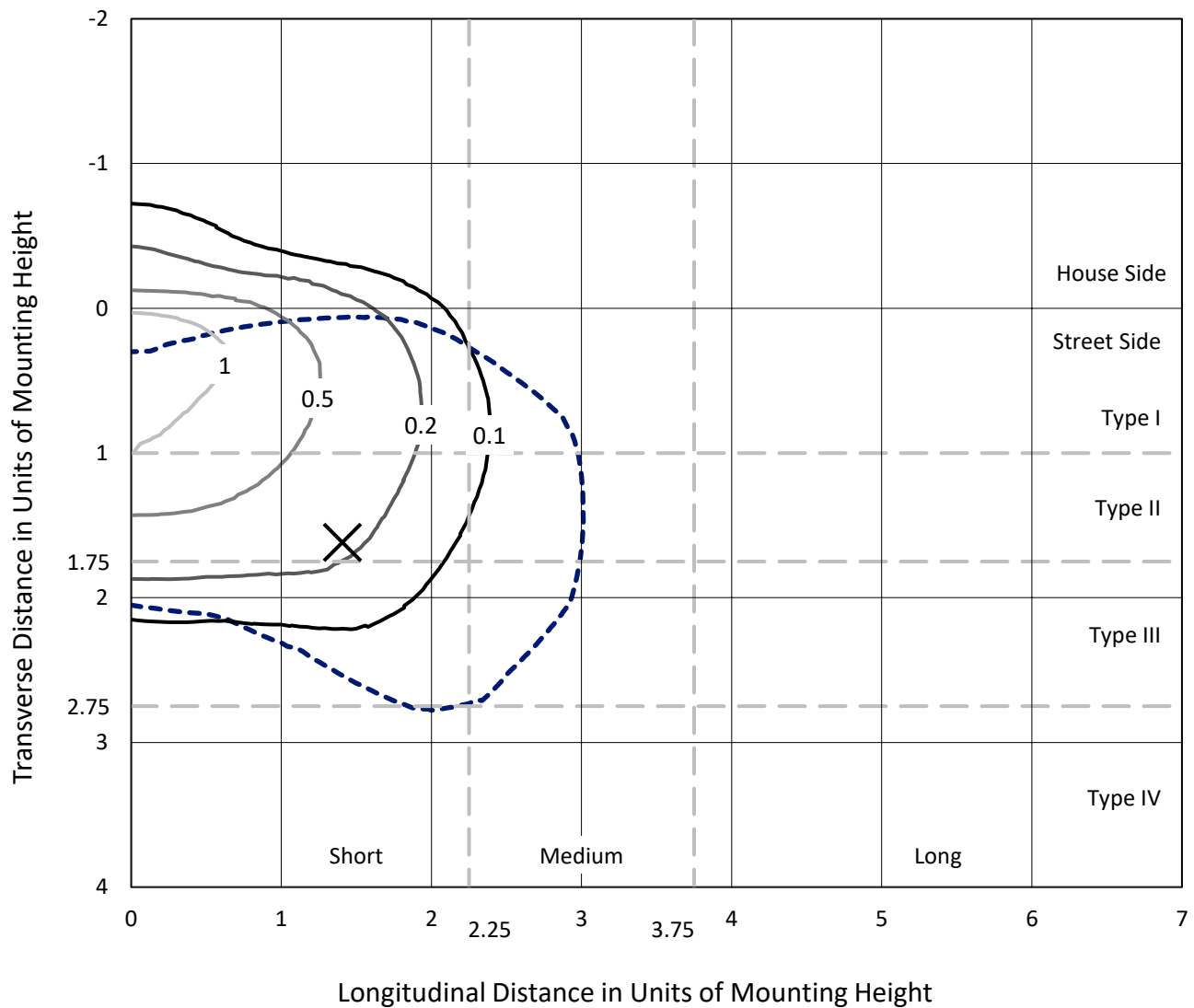


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

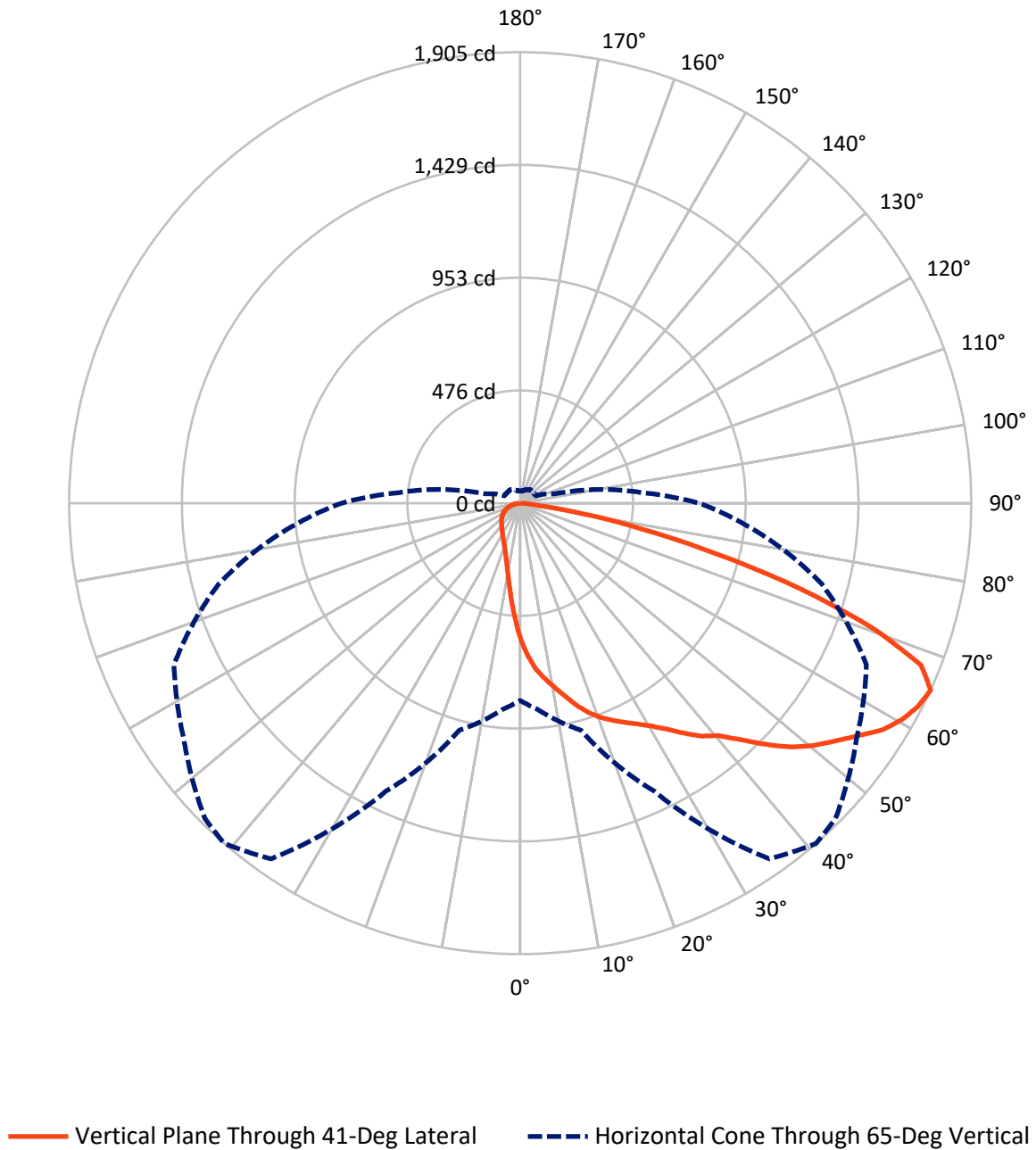


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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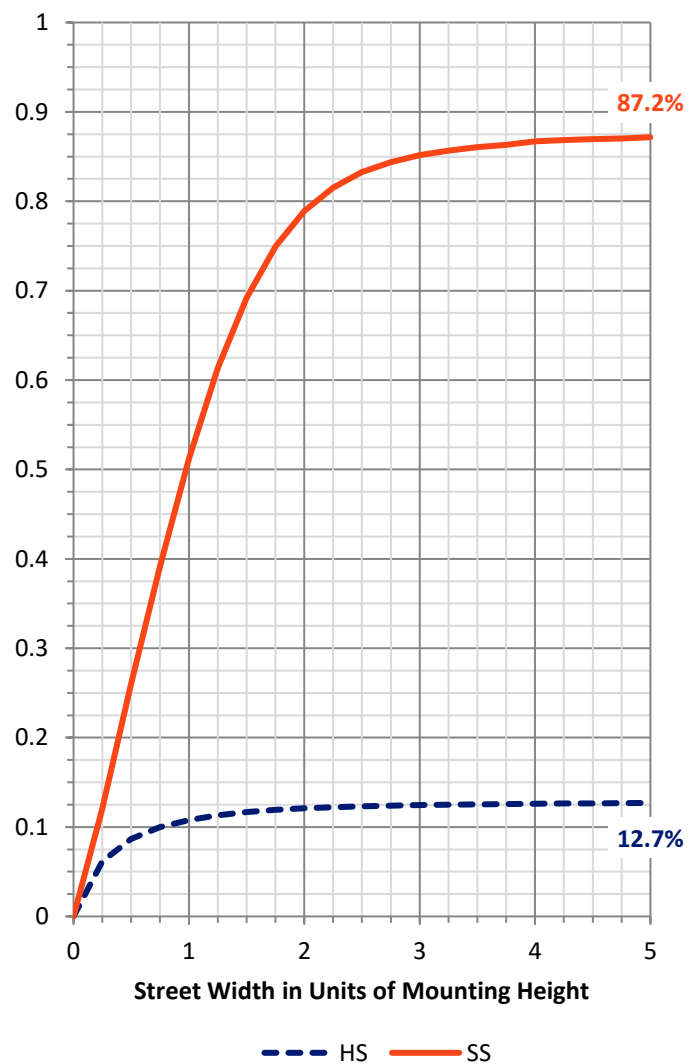
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	437.7	0.0	437.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2971.3	0.0	2971.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	3409.0	0.0	3409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.6
10°-20°	162.3	4.8
20°-30°	279.2	8.2
30°-40°	423.4	12.4
40°-50°	620.4	18.2
50°-60°	783.4	23.0
60°-70°	734.6	21.5
70°-80°	327.4	9.6
80°-90°	24.3	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°	3409.0	100.0
0°-180°	3409.0	100.0

Coefficient of Utilization



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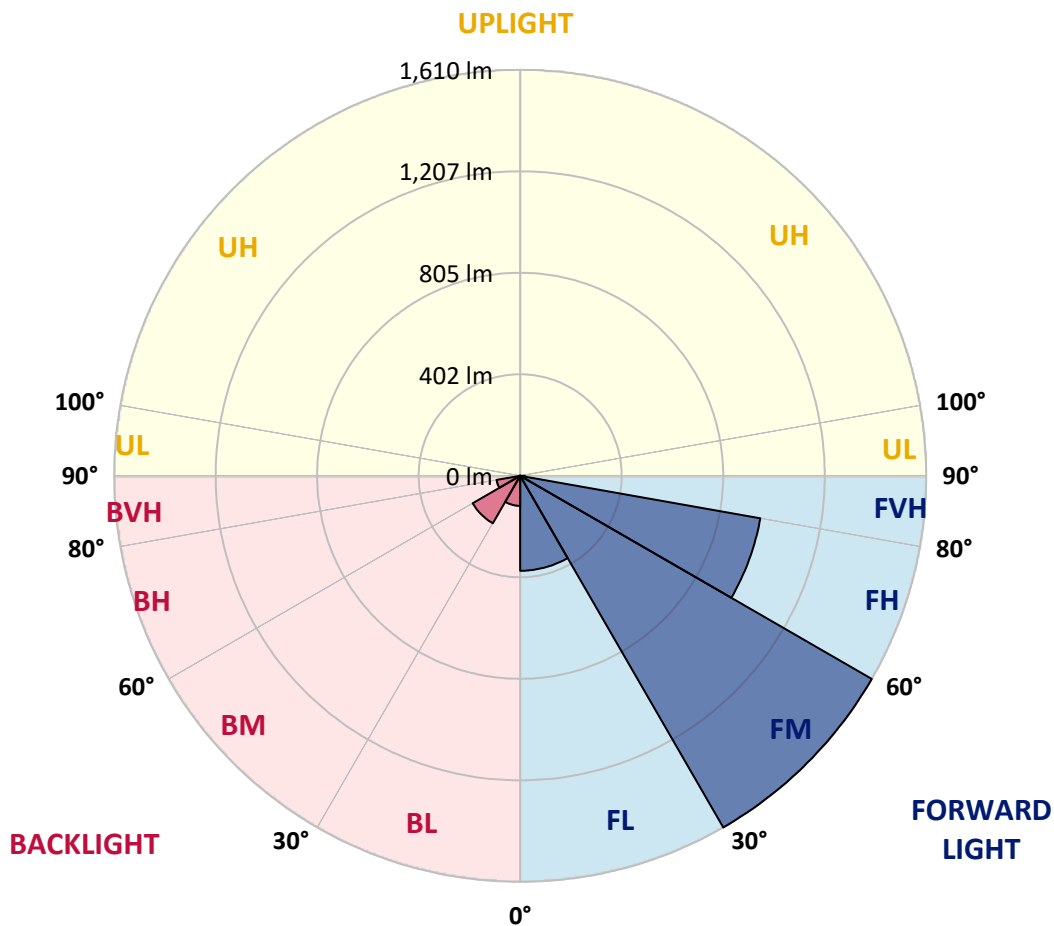
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	376.5	11.0			
FM	(30°-60°)	1609.9	47.2			
FH	(60°-80°)	966.9	28.4			G1/1800
FVH	(80°-90°)	18.1	0.5			G1/100
BL	(0°-30°)	119.1	3.5	B1/500		
BM	(30°-60°)	217.3	6.4	B0/220		
BH	(60°-80°)	95.1	2.8	B0/110		G0/110
BVH	(80°-90°)	6.1	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°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9
2.5°	670.0	667.9	666.4	658.5	658.5	647.7	648.5	638.4	626.2	606.8	585.9
5°	733.3	730.4	726.8	718.9	716.0	705.2	703.8	689.4	668.6	634.8	597.4
7.5°	788.6	785.8	780.7	769.2	761.3	748.4	744.8	726.1	703.1	661.4	608.9
10°	839.0	836.8	830.3	816.0	805.2	789.4	782.9	757.7	729.0	683.0	618.3
12.5°	890.0	887.1	878.5	866.3	853.3	834.6	826.7	794.4	757.7	706.7	631.9
15°	937.5	933.1	926.7	913.7	902.2	884.3	875.6	837.5	793.0	733.3	649.9
17.5°	968.4	964.8	959.0	951.8	942.5	928.8	920.2	882.8	828.2	759.2	668.6
20°	987.1	985.6	983.5	979.1	974.8	965.5	959.0	923.8	866.3	784.3	686.6
22.5°	1001.4	1000.0	999.3	999.3	1000.0	996.4	992.1	961.9	902.9	810.9	703.1
25°	1023.7	1023.0	1021.6	1020.1	1025.2	1025.9	1024.4	1003.6	949.0	846.2	723.9
27.5°	1054.6	1052.5	1049.6	1048.2	1053.2	1056.8	1059.7	1045.3	997.8	882.1	747.7
30°	1102.1	1095.6	1088.4	1083.4	1087.0	1092.7	1099.2	1090.6	1048.2	926.7	772.1
32.5°	1158.2	1150.2	1133.7	1124.4	1133.7	1138.0	1143.1	1138.7	1100.6	974.8	796.5
35°	1226.5	1217.1	1199.9	1186.2	1202.7	1193.4	1191.2	1186.9	1150.2	1022.3	823.9
37.5°	1340.0	1326.4	1299.1	1268.9	1268.9	1248.7	1240.8	1227.9	1194.8	1064.7	850.5
40°	1471.6	1453.6	1418.4	1373.8	1332.9	1291.2	1286.1	1276.8	1247.3	1113.6	880.7
42.5°	1616.1	1581.6	1532.7	1478.8	1412.6	1365.2	1353.7	1327.1	1298.3	1163.2	910.9
45°	1776.4	1704.5	1633.4	1606.0	1496.8	1453.6	1432.1	1383.9	1351.5	1215.0	942.5
47.5°	1802.3	1746.2	1698.8	1694.5	1575.1	1539.2	1514.7	1445.7	1409.1	1270.3	975.6
50°	1787.9	1754.1	1759.2	1741.9	1632.6	1608.9	1590.2	1511.9	1465.8	1323.5	1005.7
52.5°	1727.5	1746.2	1775.0	1743.3	1687.3	1667.9	1658.5	1583.0	1519.0	1372.4	1033.1
55°	1655.6	1668.6	1730.4	1769.2	1750.5	1733.3	1724.7	1665.7	1571.5	1413.4	1058.2
57.5°	1550.7	1544.9	1613.2	1764.9	1816.7	1806.6	1797.3	1746.9	1620.4	1442.8	1074.0
60°	1393.2	1381.0	1467.3	1678.6	1838.2	1854.1	1849.7	1800.9	1657.8	1442.1	1067.6
62.5°	1120.8	1151.0	1270.3	1537.7	1847.6	1887.8	1879.9	1805.2	1670.0	1400.4	1026.6
65°	833.2	876.3	993.5	1343.6	1834.6	1905.1	1883.5	1734.7	1613.2	1317.8	936.7
67.5°	600.3	638.4	723.9	1105.7	1710.3	1826.0	1800.9	1619.7	1482.4	1200.6	812.4
70°	410.5	437.8	496.0	805.2	1460.1	1578.7	1562.9	1447.9	1276.1	1061.1	660.0
72.5°	289.7	301.2	338.6	531.3	1109.3	1238.7	1220.0	1191.2	1025.2	882.1	513.3
75°	217.1	224.3	244.4	343.6	748.4	858.4	841.1	857.7	765.6	667.9	373.8
77.5°	82.0	89.1	138.7	219.3	442.8	527.0	509.7	519.8	425.6	337.2	186.2
80°	22.3	23.7	46.0	104.2	201.3	262.4	238.7	204.9	158.2	155.3	98.5
82.5°	9.3	10.8	20.8	56.1	71.9	71.9	60.4	74.8	60.4	72.6	47.4
85°	3.6	4.3	5.0	14.4	9.3	10.1	10.8	14.4	12.2	15.1	10.8
87.5°	0.0	0.0	0.0	0.7	0.7	1.4	0.7	1.4	2.2	2.2	2.2
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°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9
2.5°	577.3	569.4	557.9	539.2	519.8	509.0	495.3	493.2	478.8	477.4	471.6
5°	580.9	564.3	534.9	498.9	463.7	436.4	416.2	405.5	384.6	384.6	378.9
7.5°	583.8	557.9	510.4	457.2	409.1	372.4	345.1	333.6	314.9	313.4	309.1
10°	584.5	550.0	483.8	414.8	355.9	318.5	291.9	278.9	262.4	261.0	258.1
12.5°	590.2	545.6	460.1	378.1	317.8	277.5	251.6	240.8	227.9	226.5	223.6
15°	599.6	545.6	440.0	347.2	284.0	246.6	224.3	214.2	204.9	203.5	202.0
17.5°	608.9	544.2	419.8	318.5	255.9	222.1	202.7	194.8	187.6	186.9	185.5
20°	617.5	543.5	399.7	294.0	234.4	202.0	186.9	179.7	174.0	174.0	173.3
22.5°	626.2	542.1	380.3	271.0	215.7	186.9	174.0	166.1	161.8	161.8	161.0
25°	639.1	542.1	362.3	251.6	200.6	175.4	162.5	156.7	153.1	152.4	152.4
27.5°	654.2	546.4	346.5	234.4	187.6	163.9	153.8	148.1	143.8	142.3	143.1
30°	670.7	550.0	332.1	219.3	175.4	155.3	144.5	138.7	134.4	133.0	133.7
32.5°	687.3	554.3	319.2	205.6	163.2	147.4	136.6	130.1	125.8	125.1	125.1
35°	705.2	558.6	306.3	194.1	153.1	139.5	129.4	122.2	119.3	117.9	118.6
37.5°	723.2	565.8	294.0	183.3	145.9	132.3	122.9	115.7	113.6	112.9	112.9
40°	744.8	576.6	289.0	176.1	139.5	125.8	117.9	110.7	108.6	108.6	108.6
42.5°	762.8	585.2	284.7	168.2	134.4	120.1	112.9	107.1	105.7	105.0	105.7
45°	780.7	593.1	278.9	161.0	128.0	114.3	108.6	102.8	101.4	101.4	101.4
47.5°	798.7	597.4	271.0	153.8	122.2	109.3	104.2	99.2	97.8	97.8	97.8
50°	813.1	601.0	259.5	145.9	115.7	105.0	99.9	94.9	93.5	93.5	93.5
52.5°	827.5	601.7	247.3	136.6	109.3	99.9	95.6	90.6	89.1	88.4	88.4
55°	840.4	601.0	232.9	125.8	102.1	94.2	90.6	86.3	83.4	80.5	82.0
57.5°	849.7	600.3	216.4	115.0	94.9	88.4	87.0	81.2	75.5	68.3	69.7
60°	846.2	592.4	198.4	101.4	87.0	82.7	82.7	74.8	64.7	61.1	61.8
62.5°	823.1	570.1	179.7	87.0	79.1	76.9	76.2	67.6	59.7	56.1	56.8
65°	754.1	514.0	152.4	74.0	71.2	70.5	70.5	62.5	55.4	51.0	51.8
67.5°	649.2	431.3	124.4	62.5	63.3	64.7	64.7	57.5	50.3	46.0	46.7
70°	520.5	337.2	99.2	53.9	54.6	56.8	58.2	51.8	45.3	41.0	41.0
72.5°	391.8	255.9	79.8	45.3	48.9	48.9	51.0	46.0	39.5	35.2	35.9
75°	284.0	183.3	63.3	38.1	42.4	41.7	41.7	38.8	33.8	30.9	30.9
77.5°	134.4	96.3	50.3	27.3	33.1	32.4	33.1	30.9	28.8	25.9	26.6
80°	66.1	47.4	32.4	19.4	23.0	23.7	25.9	24.4	23.7	21.6	21.6
82.5°	31.6	18.7	15.1	13.7	15.8	16.5	18.0	18.0	18.7	17.3	17.3
85°	8.6	5.0	6.5	8.6	10.1	10.8	12.2	12.9	12.9	12.2	12.9
87.5°	2.2	2.2	2.9	4.3	5.0	5.8	6.5	6.5	2.9	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)