

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: P799512

Luminaire Tested: **ARCH2-30-730-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799512
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: ARCH2-30-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

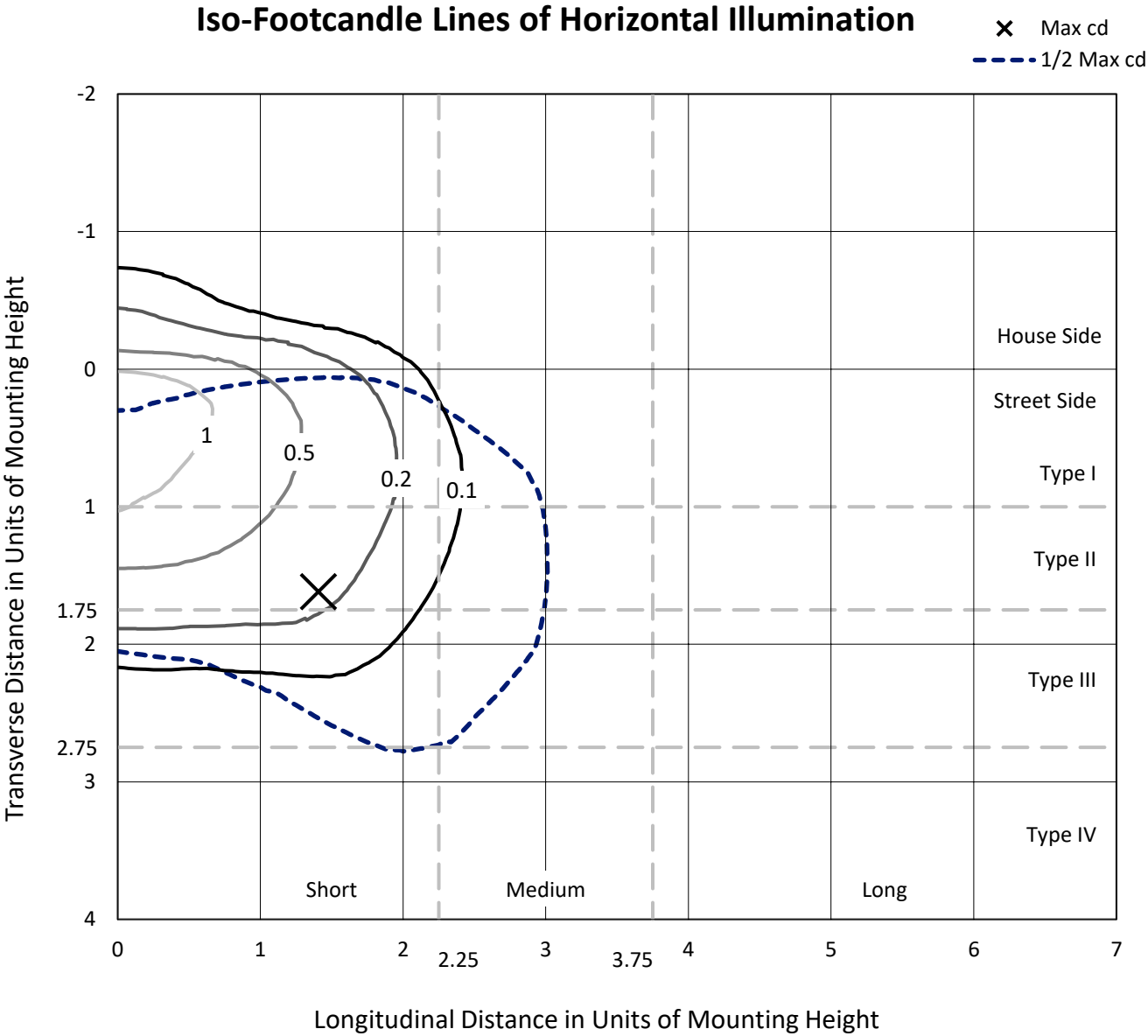
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3533 lumens
Efficiency: N/A
Efficacy: 102.7 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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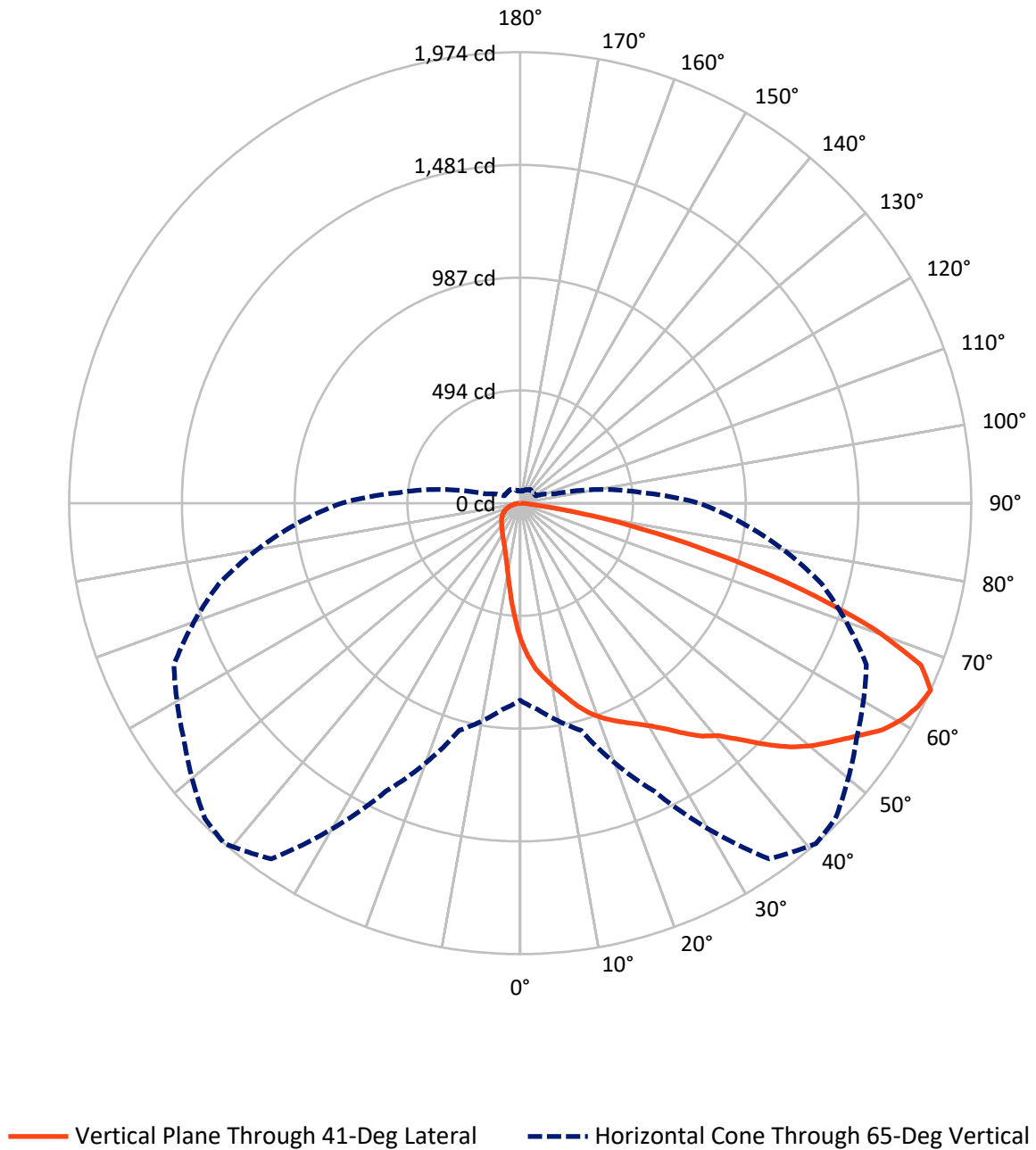


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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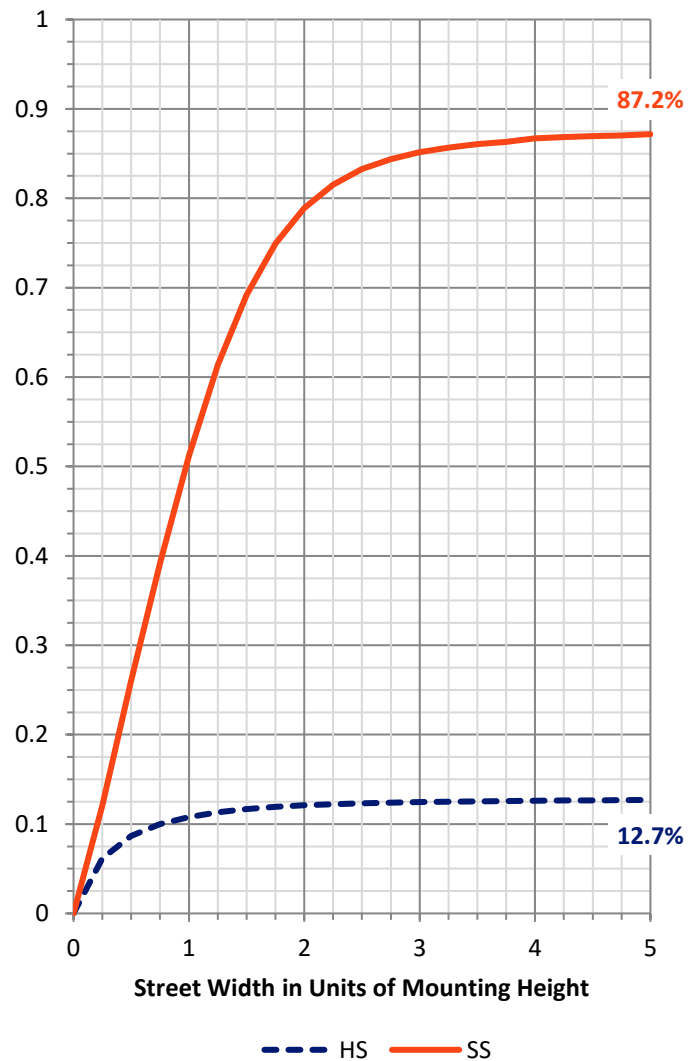
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	453.6	0.0	453.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3079.4	0.0	3079.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	3533.0	0.0	3533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.6
10°-20°	168.2	4.8
20°-30°	289.4	8.2
30°-40°	438.8	12.4
40°-50°	642.9	18.2
50°-60°	811.9	23.0
60°-70°	761.3	21.5
70°-80°	339.3	9.6
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°	3533.0	100.0
0°-180°	3533.0	100.0

Coefficient of Utilization



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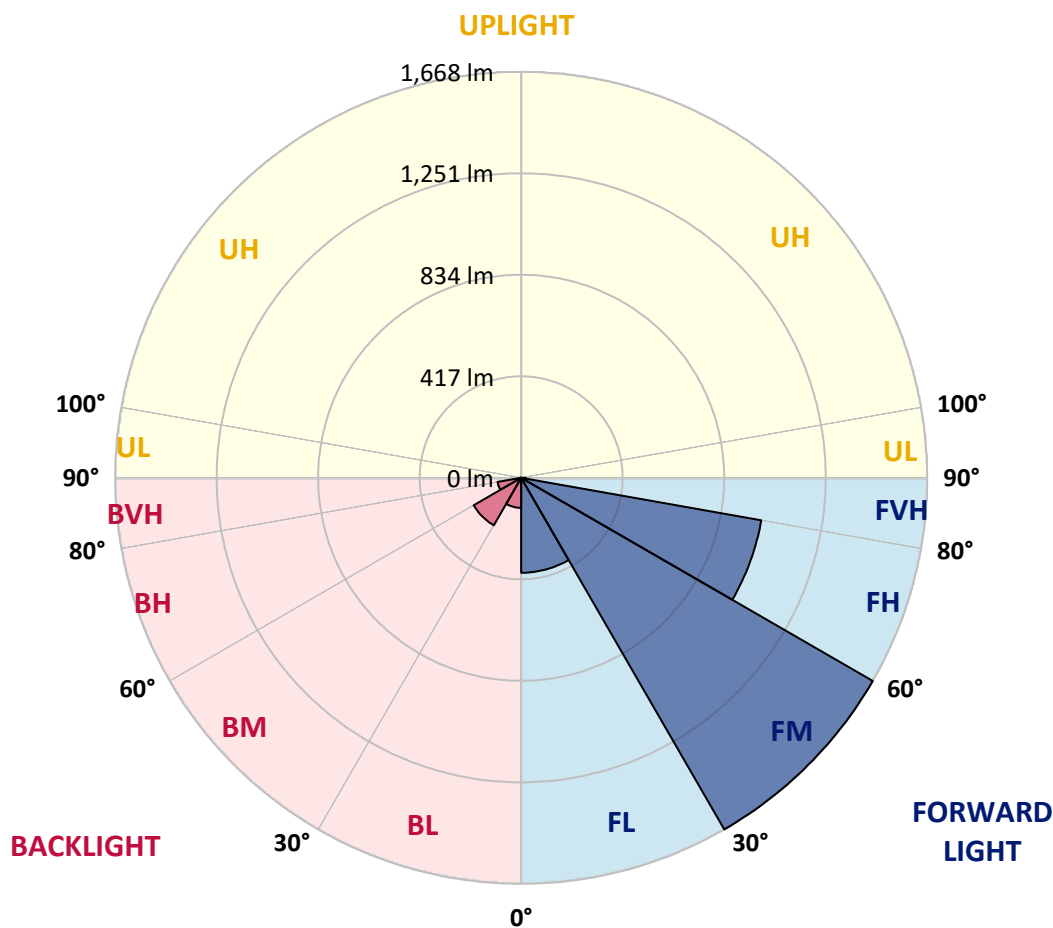
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	390.2	11.0			
FM	(30°-60°)	1668.4	47.2			
FH	(60°-80°)	1002.1	28.4			G1/1800
FVH	(80°-90°)	18.8	0.5			G1/100
BL	(0°-30°)	123.5	3.5	B1/500		
BM	(30°-60°)	225.2	6.4	B1/1000		
BH	(60°-80°)	98.5	2.8	B0/110		G0/110
BVH	(80°-90°)	6.4	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°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	694.4	692.2	690.7	682.5	682.5	671.3	672.0	661.6	648.9	628.8	607.2
5°	760.0	757.0	753.3	745.1	742.1	730.9	729.4	714.5	692.9	657.9	619.1
7.5°	817.3	814.3	809.1	797.2	789.0	775.6	771.9	752.5	728.7	685.5	631.1
10°	869.5	867.2	860.5	845.6	834.5	818.1	811.4	785.3	755.5	707.8	640.7
12.5°	922.4	919.4	910.5	897.8	884.4	865.0	856.8	823.3	785.3	732.4	654.9
15°	971.6	967.1	960.4	947.0	935.0	916.4	907.5	868.0	821.8	760.0	673.5
17.5°	1003.6	999.9	993.9	986.5	976.8	962.6	953.7	914.9	858.3	786.8	692.9
20°	1023.0	1021.5	1019.2	1014.8	1010.3	1000.6	993.9	957.4	897.8	812.9	711.5
22.5°	1037.9	1036.4	1035.6	1035.6	1036.4	1032.6	1028.2	996.9	935.8	840.4	728.7
25°	1061.0	1060.2	1058.7	1057.2	1062.4	1063.2	1061.7	1040.1	983.5	876.9	750.3
27.5°	1093.0	1090.8	1087.8	1086.3	1091.5	1095.2	1098.2	1083.3	1034.1	914.2	774.9
30°	1142.2	1135.5	1128.0	1122.8	1126.5	1132.5	1139.2	1130.2	1086.3	960.4	800.2
32.5°	1200.3	1192.1	1175.0	1165.3	1175.0	1179.4	1184.6	1180.2	1140.7	1010.3	825.5
35°	1271.1	1261.4	1243.5	1229.3	1246.5	1236.8	1234.6	1230.1	1192.1	1059.5	853.8
37.5°	1388.8	1374.6	1346.3	1315.0	1315.0	1294.2	1286.0	1272.6	1238.3	1103.4	881.4
40°	1525.1	1506.5	1470.0	1423.8	1381.3	1338.1	1332.9	1323.2	1292.7	1154.1	912.7
42.5°	1674.9	1639.1	1588.5	1532.6	1464.0	1414.9	1402.9	1375.4	1345.6	1205.5	944.0
45°	1841.0	1766.5	1692.8	1664.5	1551.2	1506.5	1484.2	1434.2	1400.7	1259.1	976.8
47.5°	1867.9	1809.7	1760.6	1756.1	1632.4	1595.2	1569.8	1498.3	1460.3	1316.5	1011.0
50°	1853.0	1817.9	1823.2	1805.3	1692.0	1667.4	1648.1	1566.9	1519.2	1371.6	1042.3
52.5°	1790.4	1809.7	1839.5	1806.8	1748.6	1728.5	1718.8	1640.6	1574.3	1422.3	1070.6
55°	1715.9	1729.3	1793.3	1833.6	1814.2	1796.3	1787.4	1726.3	1628.7	1464.8	1096.7
57.5°	1607.1	1601.1	1671.9	1829.1	1882.8	1872.3	1862.6	1810.5	1679.4	1495.3	1113.1
60°	1443.9	1431.3	1520.7	1739.7	1905.1	1921.5	1917.0	1866.4	1718.1	1494.6	1106.4
62.5°	1161.5	1192.8	1316.5	1593.7	1914.8	1956.5	1948.3	1870.8	1730.8	1451.4	1063.9
65°	863.5	908.2	1029.7	1392.5	1901.4	1974.4	1952.0	1797.8	1671.9	1365.7	970.8
67.5°	622.1	661.6	750.3	1145.9	1772.5	1892.4	1866.4	1678.6	1536.3	1244.2	841.9
70°	425.4	453.7	514.1	834.5	1513.2	1636.1	1619.8	1500.5	1322.5	1099.7	684.0
72.5°	300.3	312.2	350.9	550.6	1149.6	1283.7	1264.4	1234.6	1062.4	914.2	532.0
75°	225.0	232.5	253.3	356.1	775.6	889.6	871.7	888.9	793.5	692.2	387.4
77.5°	84.9	92.4	143.8	227.2	459.0	546.1	528.2	538.7	441.1	349.4	193.0
80°	23.1	24.6	47.7	108.0	208.6	271.9	247.4	212.3	163.9	160.9	102.1
82.5°	9.7	11.2	21.6	58.1	74.5	74.5	62.6	77.5	62.6	75.3	49.2
85°	3.7	4.5	5.2	14.9	9.7	10.4	11.2	14.9	12.7	15.6	11.2
87.5°	0.0	0.0	0.0	0.7	0.7	1.5	0.7	1.5	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°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	598.3	590.1	578.2	558.8	538.7	527.5	513.3	511.1	496.2	494.7	488.8
5°	602.0	584.9	554.3	517.1	480.6	452.2	431.4	420.2	398.6	398.6	392.6
7.5°	605.0	578.2	529.0	473.9	423.9	385.9	357.6	345.7	326.3	324.8	320.4
10°	605.7	570.0	501.4	429.9	368.8	330.1	302.5	289.1	271.9	270.5	267.5
12.5°	611.7	565.5	476.8	391.9	329.3	287.6	260.8	249.6	236.2	234.7	231.7
15°	621.4	565.5	456.0	359.9	294.3	255.6	232.5	222.0	212.3	210.9	209.4
17.5°	631.1	564.0	435.1	330.1	265.2	230.2	210.1	201.9	194.5	193.7	192.2
20°	640.0	563.3	414.3	304.7	242.9	209.4	193.7	186.3	180.3	180.3	179.6
22.5°	648.9	561.8	394.1	280.9	223.5	193.7	180.3	172.1	167.6	167.6	166.9
25°	662.4	561.8	375.5	260.8	207.9	181.8	168.4	162.4	158.7	158.0	158.0
27.5°	678.0	566.2	359.1	242.9	194.5	169.9	159.4	153.5	149.0	147.5	148.3
30°	695.1	570.0	344.2	227.2	181.8	160.9	149.8	143.8	139.3	137.8	138.6
32.5°	712.3	574.4	330.8	213.1	169.1	152.7	141.6	134.9	130.4	129.6	129.6
35°	730.9	578.9	317.4	201.2	158.7	144.5	134.1	126.7	123.7	122.2	122.9
37.5°	749.5	586.4	304.7	190.0	151.2	137.1	127.4	120.0	117.7	117.0	117.0
40°	771.9	597.5	299.5	182.5	144.5	130.4	122.2	114.7	112.5	112.5	112.5
42.5°	790.5	606.5	295.0	174.3	139.3	124.4	117.0	111.0	109.5	108.8	109.5
45°	809.1	614.7	289.1	166.9	132.6	118.5	112.5	106.5	105.1	105.1	105.1
47.5°	827.8	619.1	280.9	159.4	126.7	113.2	108.0	102.8	101.3	101.3	101.3
50°	842.7	622.9	269.0	151.2	120.0	108.8	103.6	98.3	96.9	96.9	96.9
52.5°	857.6	623.6	256.3	141.6	113.2	103.6	99.1	93.9	92.4	91.6	91.6
55°	871.0	622.9	241.4	130.4	105.8	97.6	93.9	89.4	86.4	83.4	84.9
57.5°	880.7	622.1	224.3	119.2	98.3	91.6	90.2	84.2	78.2	70.8	72.3
60°	876.9	613.9	205.6	105.1	90.2	85.7	85.7	77.5	67.1	63.3	64.1
62.5°	853.1	590.8	186.3	90.2	82.0	79.7	79.0	70.0	61.8	58.1	58.9
65°	781.6	532.7	158.0	76.7	73.8	73.0	73.0	64.8	57.4	52.9	53.6
67.5°	672.8	447.0	128.9	64.8	65.6	67.1	67.1	59.6	52.2	47.7	48.4
70°	539.4	349.4	102.8	55.9	56.6	58.9	60.3	53.6	46.9	42.5	42.5
72.5°	406.1	265.2	82.7	46.9	50.7	50.7	52.9	47.7	41.0	36.5	37.3
75°	294.3	190.0	65.6	39.5	44.0	43.2	43.2	40.2	35.0	32.0	32.0
77.5°	139.3	99.8	52.2	28.3	34.3	33.5	34.3	32.0	29.8	26.8	27.6
80°	68.5	49.2	33.5	20.1	23.8	24.6	26.8	25.3	24.6	22.4	22.4
82.5°	32.8	19.4	15.6	14.2	16.4	17.1	18.6	18.6	19.4	17.9	17.9
85°	8.9	5.2	6.7	8.9	10.4	11.2	12.7	13.4	13.4	12.7	13.4
87.5°	2.2	2.2	3.0	4.5	5.2	6.0	6.7	6.7	3.0	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)