

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: P799544

Luminaire Tested: **ARCH2-30-740-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799544
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: ARCH2-30-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

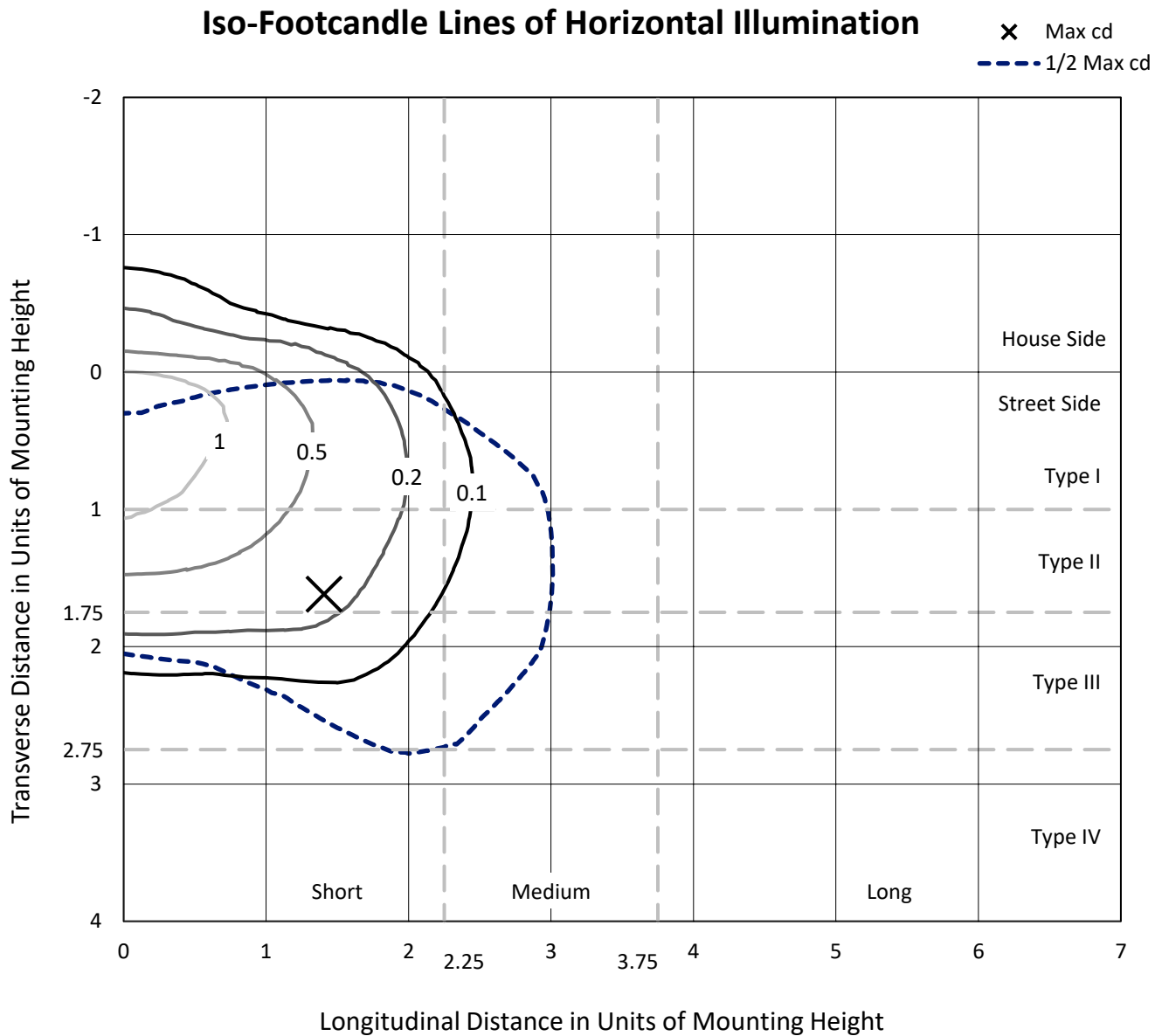
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3710 lumens
Efficiency: N/A
Efficacy: 107.8 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



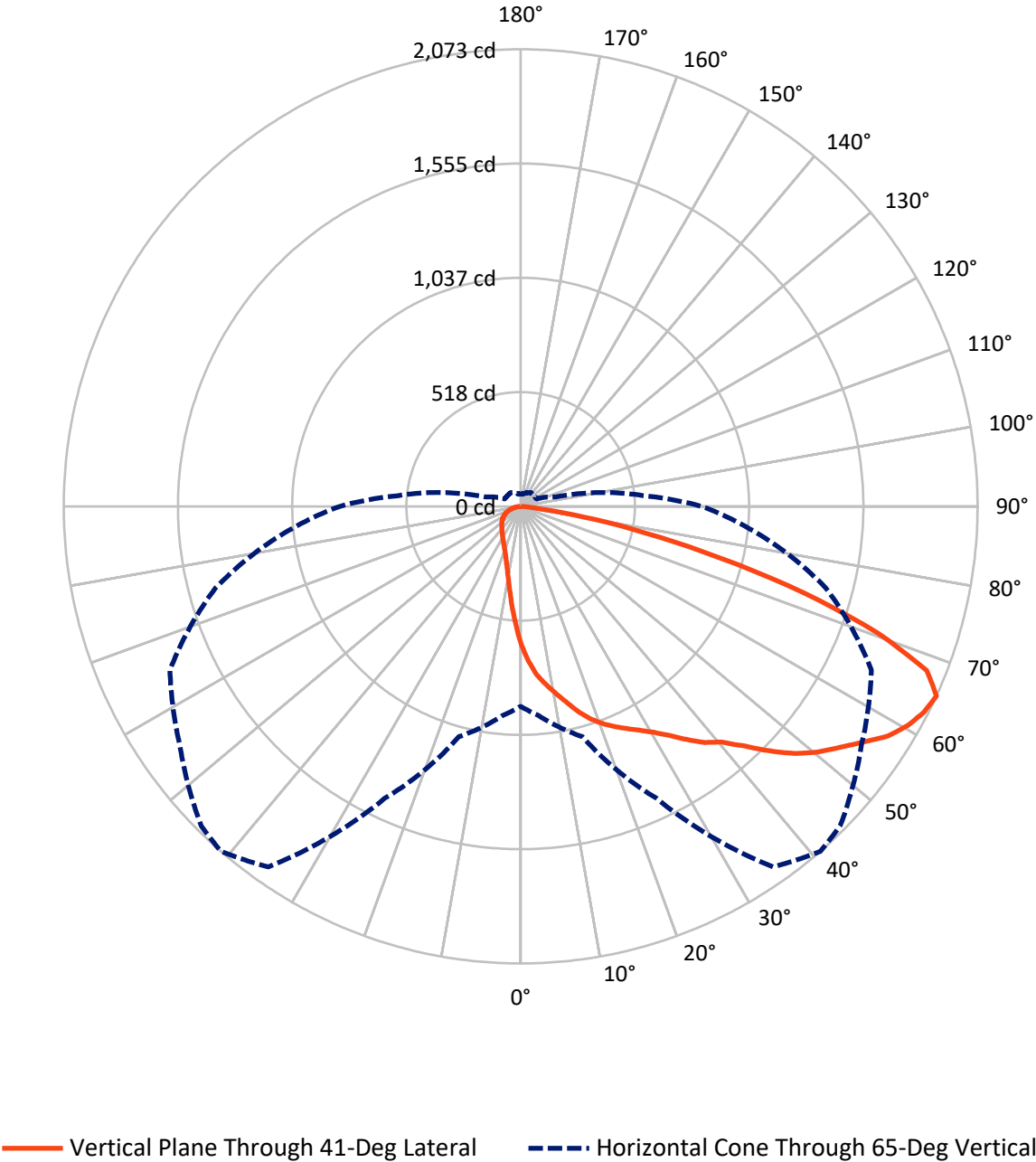
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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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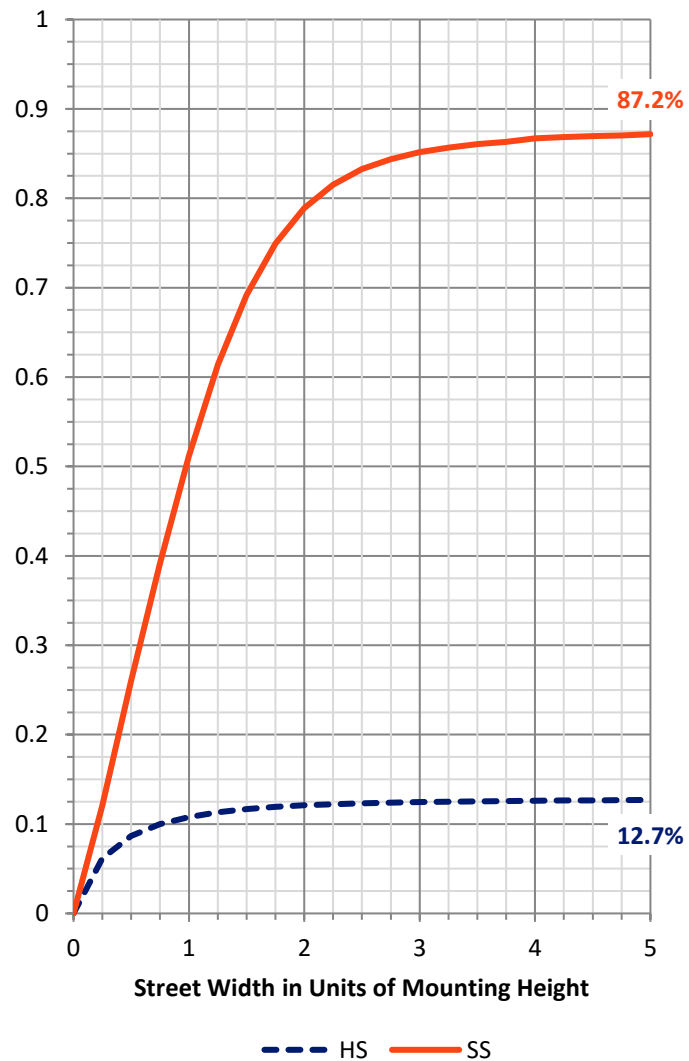
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.3	0.0	476.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3233.7	0.0	3233.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	3710.0	0.0	3710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	1.6
10°-20°	176.6	4.8
20°-30°	303.8	8.2
30°-40°	460.8	12.4
40°-50°	675.1	18.2
50°-60°	852.6	23.0
60°-70°	799.4	21.5
70°-80°	356.3	9.6
80°-90°	26.4	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°	3710.0	100.0
0°-180°	3710.0	100.0

Coefficient of Utilization



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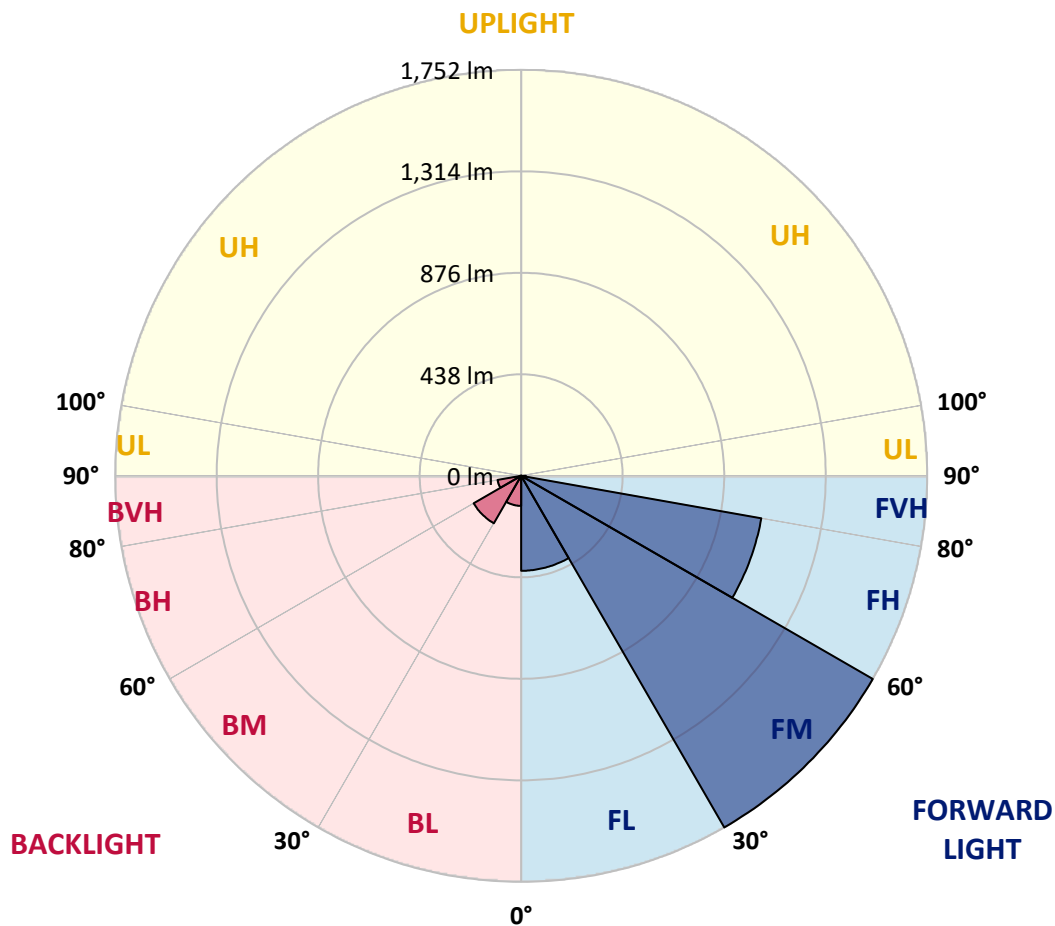
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.7	11.0			
FM	(30°-60°)	1752.0	47.2			
FH	(60°-80°)	1052.3	28.4			G1/1800
FVH	(80°-90°)	19.7	0.5			G1/100
BL	(0°-30°)	129.6	3.5	B1/500		
BM	(30°-60°)	236.5	6.4	B1/1000		
BH	(60°-80°)	103.5	2.8	B0/110		G0/110
BVH	(80°-90°)	6.7	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°	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
2.5°	729.2	726.8	725.3	716.7	716.7	704.9	705.7	694.8	681.5	660.3	637.6
5°	798.0	794.9	791.0	782.4	779.3	767.5	766.0	750.3	727.6	690.8	650.2
7.5°	858.3	855.1	849.7	837.1	828.5	814.5	810.5	790.2	765.2	719.8	662.7
10°	913.0	910.7	903.7	888.0	876.3	859.1	852.0	824.6	793.3	743.3	672.8
12.5°	968.6	965.5	956.1	942.8	928.7	908.3	899.7	864.5	824.6	769.1	687.7
15°	1020.2	1015.5	1008.5	994.4	981.9	962.3	952.9	911.5	863.0	798.0	707.3
17.5°	1053.9	1050.0	1043.7	1035.9	1025.7	1010.8	1001.4	960.8	901.3	826.2	727.6
20°	1074.2	1072.6	1070.3	1065.6	1060.9	1050.7	1043.7	1005.4	942.8	853.6	747.2
22.5°	1089.9	1088.3	1087.5	1087.5	1088.3	1084.4	1079.7	1046.8	982.7	882.5	765.2
25°	1114.1	1113.3	1111.8	1110.2	1115.7	1116.5	1114.9	1092.2	1032.7	920.9	787.9
27.5°	1147.8	1145.4	1142.3	1140.7	1146.2	1150.1	1153.2	1137.6	1085.9	960.0	813.7
30°	1199.4	1192.4	1184.5	1179.0	1183.0	1189.2	1196.3	1186.9	1140.7	1008.5	840.3
32.5°	1260.4	1251.8	1233.8	1223.6	1233.8	1238.5	1244.0	1239.3	1197.8	1060.9	866.9
35°	1334.7	1324.6	1305.8	1290.9	1308.9	1298.8	1296.4	1291.7	1251.8	1112.5	896.6
37.5°	1458.4	1443.5	1413.8	1380.9	1380.9	1359.0	1350.4	1336.3	1300.3	1158.7	925.6
40°	1601.5	1582.0	1543.6	1495.1	1450.5	1405.2	1399.7	1389.5	1357.4	1211.9	958.4
42.5°	1758.8	1721.2	1668.0	1609.4	1537.4	1485.7	1473.2	1444.3	1413.0	1265.9	991.3
45°	1933.3	1855.0	1777.6	1747.8	1628.9	1582.0	1558.5	1506.1	1470.9	1322.2	1025.7
47.5°	1961.4	1900.4	1848.8	1844.1	1714.2	1675.1	1648.5	1573.4	1533.5	1382.5	1061.7
50°	1945.8	1909.0	1914.5	1895.7	1776.8	1751.0	1730.6	1645.3	1595.3	1440.4	1094.6
52.5°	1880.1	1900.4	1931.7	1897.3	1836.3	1815.1	1805.0	1722.8	1653.2	1493.6	1124.3
55°	1801.8	1815.9	1883.2	1925.4	1905.1	1886.3	1876.9	1812.8	1710.3	1538.2	1151.7
57.5°	1687.6	1681.3	1755.7	1920.7	1977.1	1966.1	1956.0	1901.2	1763.5	1570.2	1168.9
60°	1516.3	1503.0	1596.8	1826.9	2000.6	2017.8	2013.1	1959.9	1804.2	1569.5	1161.8
62.5°	1219.7	1252.6	1382.5	1673.5	2010.7	2054.5	2045.9	1964.6	1817.5	1524.1	1117.2
65°	906.8	953.7	1081.3	1462.3	1996.6	2073.3	2049.8	1887.9	1755.7	1434.1	1019.4
67.5°	653.3	694.8	787.9	1203.3	1861.3	1987.3	1959.9	1762.7	1613.3	1306.6	884.1
70°	446.7	476.5	539.8	876.3	1589.0	1718.1	1700.9	1575.7	1388.7	1154.8	718.2
72.5°	315.3	327.8	368.5	578.2	1207.2	1348.0	1327.7	1296.4	1115.7	960.0	558.6
75°	236.3	244.1	266.0	374.0	814.5	934.2	915.4	933.4	833.2	726.8	406.8
77.5°	89.2	97.0	151.0	238.6	481.9	573.5	554.7	565.7	463.2	366.9	202.6
80°	24.3	25.8	50.1	113.4	219.1	285.6	259.8	223.0	172.1	169.0	107.2
82.5°	10.2	11.7	22.7	61.0	78.2	78.2	65.7	81.4	65.7	79.0	51.6
85°	3.9	4.7	5.5	15.6	10.2	11.0	11.7	15.6	13.3	16.4	11.7
87.5°	0.0	0.0	0.0	0.8	0.8	1.6	0.8	1.6	2.3	2.3	2.3
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°	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
2.5°	628.3	619.6	607.1	586.8	565.7	553.9	539.1	536.7	521.1	519.5	513.2
5°	632.2	614.2	582.1	543.0	504.6	474.9	453.0	441.3	418.6	418.6	412.3
7.5°	635.3	607.1	555.5	497.6	445.2	405.3	375.5	363.0	342.7	341.1	336.4
10°	636.1	598.5	526.5	451.4	387.3	346.6	317.6	303.6	285.6	284.0	280.9
12.5°	642.3	593.8	500.7	411.5	345.8	302.0	273.8	262.1	248.0	246.5	243.3
15°	652.5	593.8	478.8	377.9	309.0	268.4	244.1	233.1	223.0	221.4	219.8
17.5°	662.7	592.3	456.9	346.6	278.5	241.8	220.6	212.0	204.2	203.4	201.9
20°	672.1	591.5	435.0	320.0	255.1	219.8	203.4	195.6	189.3	189.3	188.6
22.5°	681.5	589.9	413.9	295.0	234.7	203.4	189.3	180.7	176.0	176.0	175.3
25°	695.5	589.9	394.3	273.8	218.3	190.9	176.8	170.6	166.6	165.9	165.9
27.5°	712.0	594.6	377.1	255.1	204.2	178.4	167.4	161.2	156.5	154.9	155.7
30°	730.0	598.5	361.5	238.6	190.9	169.0	157.3	151.0	146.3	144.7	145.5
32.5°	748.0	603.2	347.4	223.8	177.6	160.4	148.7	141.6	136.9	136.1	136.1
35°	767.5	607.9	333.3	211.2	166.6	151.8	140.8	133.0	129.9	128.3	129.1
37.5°	787.1	615.7	320.0	199.5	158.8	144.0	133.8	126.0	123.6	122.8	122.8
40°	810.5	627.5	314.5	191.7	151.8	136.9	128.3	120.5	118.1	118.1	118.1
42.5°	830.1	636.9	309.8	183.1	146.3	130.7	122.8	116.6	115.0	114.2	115.0
45°	849.7	645.5	303.6	175.3	139.3	124.4	118.1	111.9	110.3	110.3	110.3
47.5°	869.2	650.2	295.0	167.4	133.0	118.9	113.4	108.0	106.4	106.4	106.4
50°	884.9	654.1	282.4	158.8	126.0	114.2	108.8	103.3	101.7	101.7	101.7
52.5°	900.5	654.9	269.1	148.7	118.9	108.8	104.1	98.6	97.0	96.2	96.2
55°	914.6	654.1	253.5	136.9	111.1	102.5	98.6	93.9	90.8	87.6	89.2
57.5°	924.8	653.3	235.5	125.2	103.3	96.2	94.7	88.4	82.2	74.3	75.9
60°	920.9	644.7	215.9	110.3	94.7	90.0	90.0	81.4	70.4	66.5	67.3
62.5°	895.8	620.4	195.6	94.7	86.1	83.7	82.9	73.5	64.9	61.0	61.8
65°	820.7	559.4	165.9	80.6	77.5	76.7	76.7	68.1	60.2	55.5	56.3
67.5°	706.5	469.4	135.4	68.1	68.8	70.4	70.4	62.6	54.8	50.1	50.9
70°	566.4	366.9	108.0	58.7	59.5	61.8	63.4	56.3	49.3	44.6	44.6
72.5°	426.4	278.5	86.8	49.3	53.2	53.2	55.5	50.1	43.0	38.3	39.1
75°	309.0	199.5	68.8	41.5	46.2	45.4	45.4	42.2	36.8	33.6	33.6
77.5°	146.3	104.8	54.8	29.7	36.0	35.2	36.0	33.6	31.3	28.2	28.9
80°	72.0	51.6	35.2	21.1	25.0	25.8	28.2	26.6	25.8	23.5	23.5
82.5°	34.4	20.3	16.4	14.9	17.2	18.0	19.6	19.6	20.3	18.8	18.8
85°	9.4	5.5	7.0	9.4	11.0	11.7	13.3	14.1	14.1	13.3	14.1
87.5°	2.3	2.3	3.1	4.7	5.5	6.3	7.0	7.0	3.1	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)