

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: P799494

Luminaire Tested: **ARCH2-30-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-30-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3428 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - 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

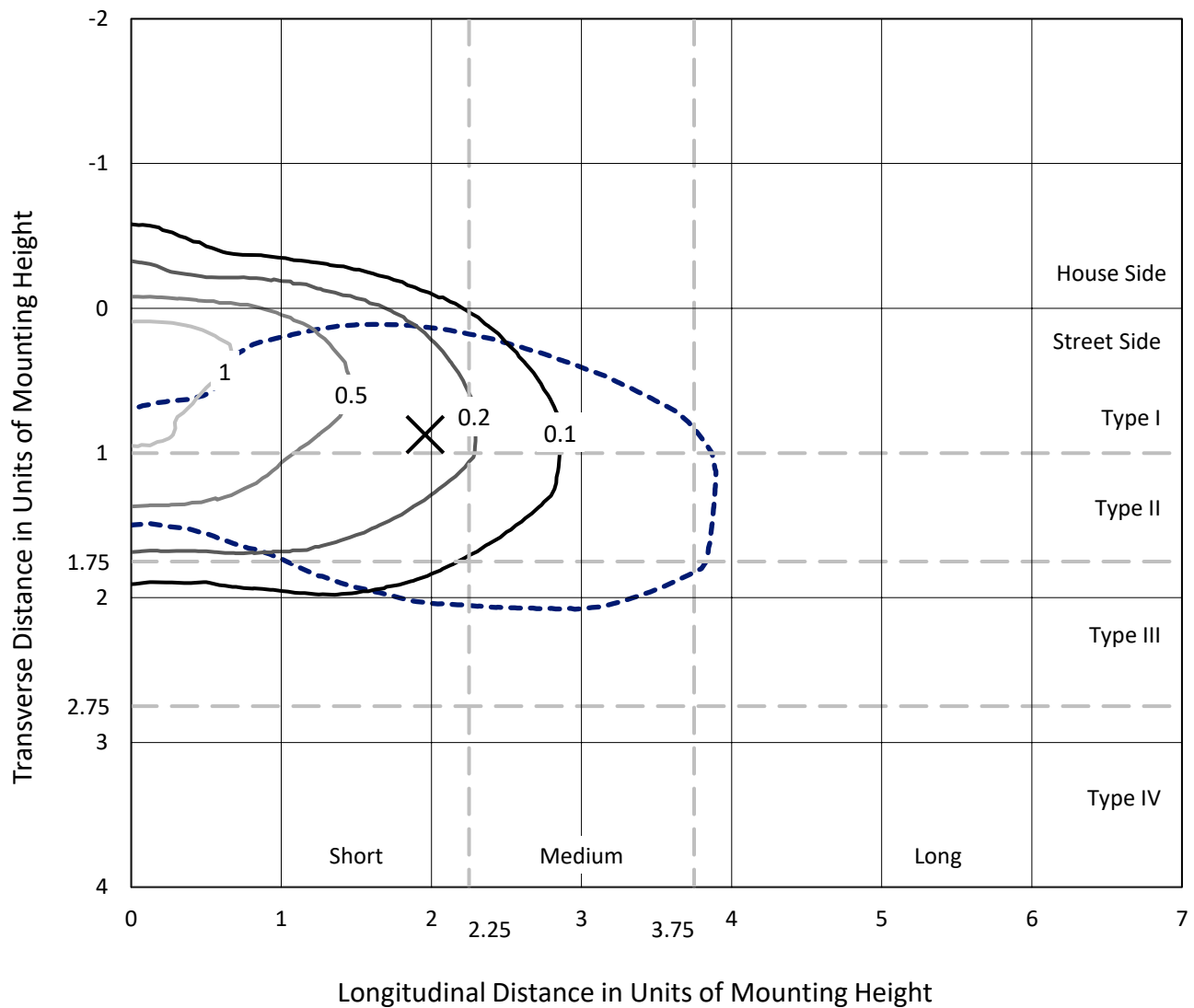


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

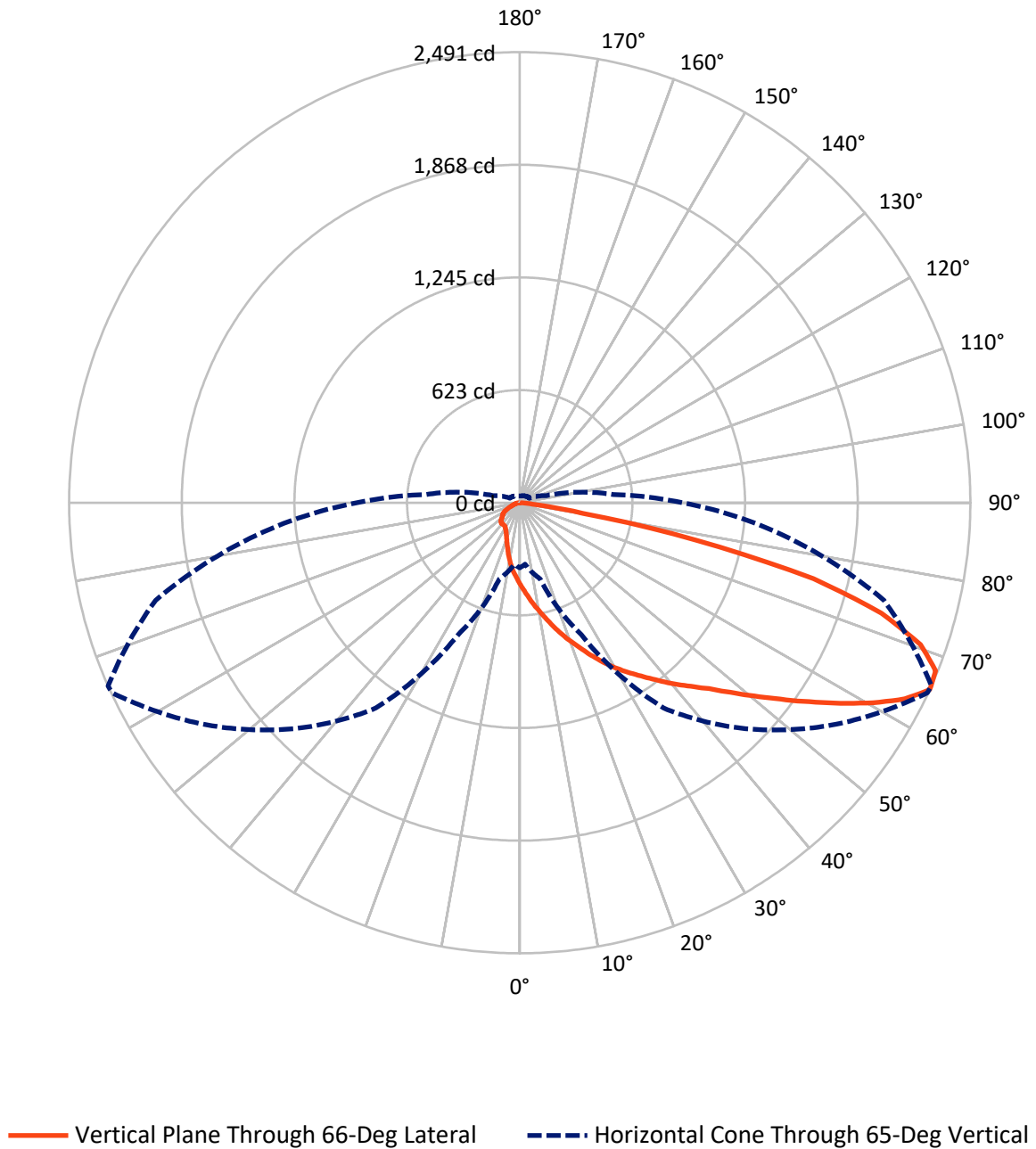


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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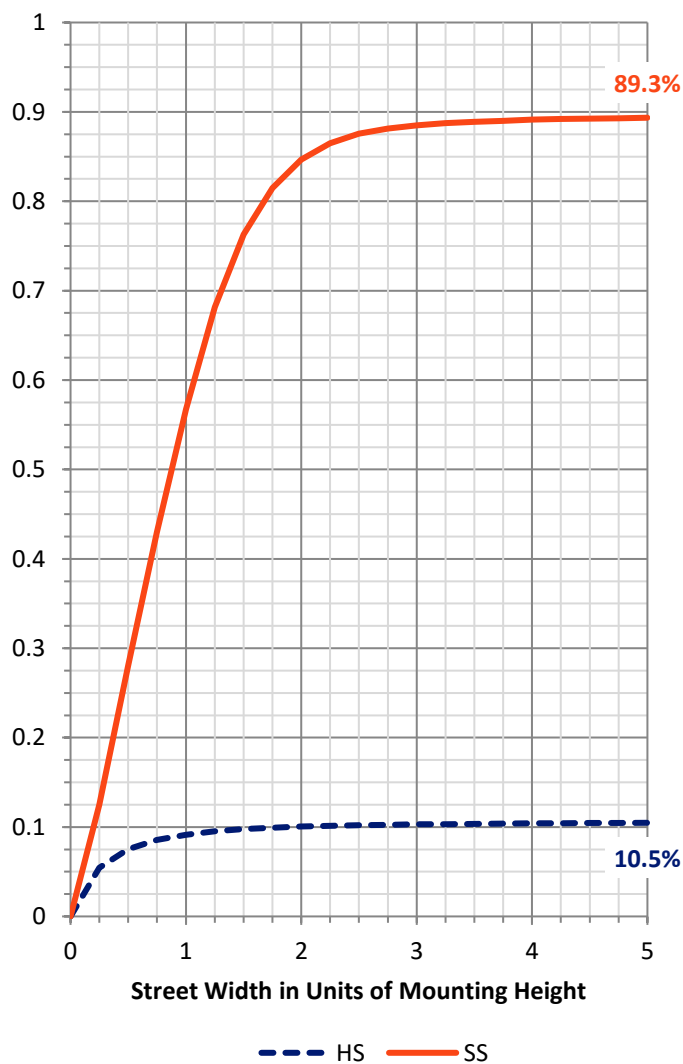
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.6	0.0	362.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3065.4	0.0	3065.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	3428.0	0.0	3428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.3
10°-20°	145.9	4.3
20°-30°	264.1	7.7
30°-40°	412.9	12.0
40°-50°	626.4	18.3
50°-60°	795.9	23.2
60°-70°	743.6	21.7
70°-80°	369.6	10.8
80°-90°	24.8	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°	3428.0	100.0
0°-180°	3428.0	100.0

Coefficient of Utilization



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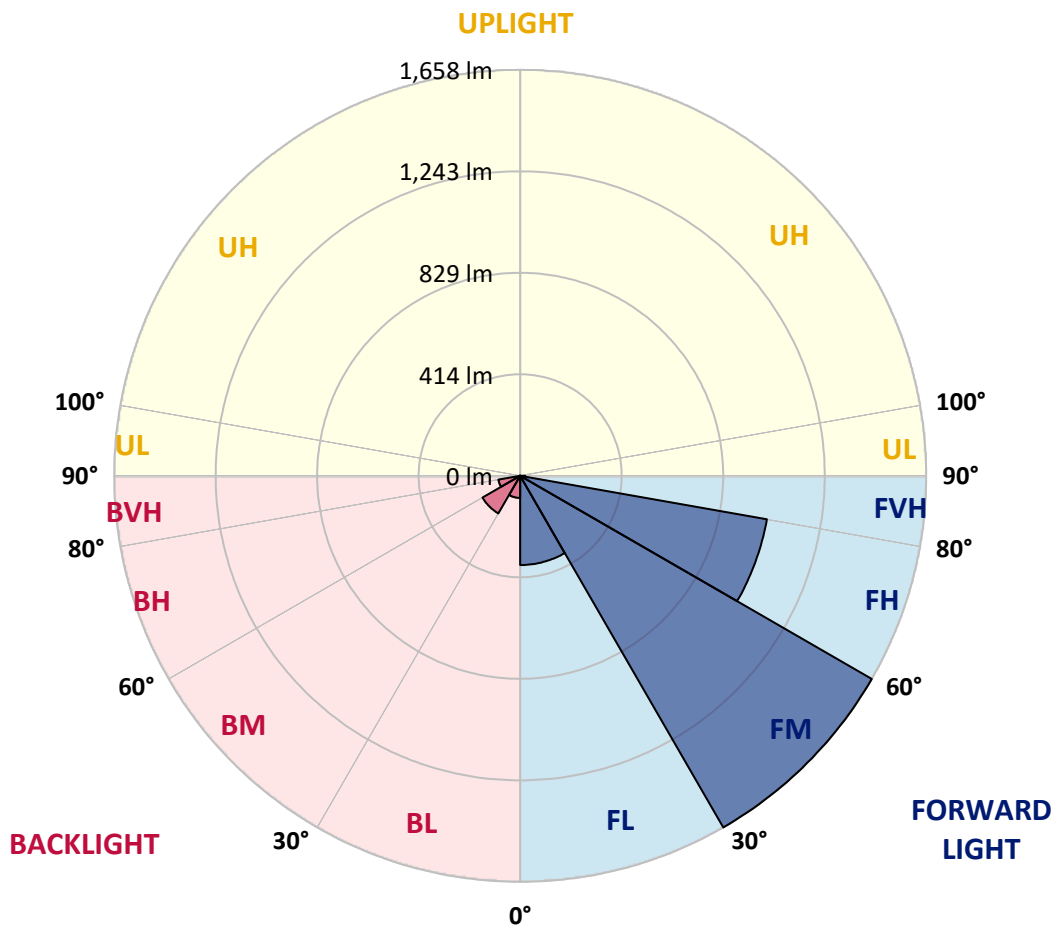
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.2	10.6			
FM	(30°-60°)	1657.8	48.4			
FH	(60°-80°)	1022.9	29.8			G1/1800
FVH	(80°-90°)	20.4	0.6			G1/100
BL	(0°-30°)	90.6	2.6	B0/110		
BM	(30°-60°)	177.3	5.2	B0/220		
BH	(60°-80°)	90.3	2.6	B0/110		G0/110
BVH	(80°-90°)	4.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	453.7	453.7	453.7	453.7	453.7	453.7	453.7	453.7	453.7	453.7	453.7
2.5°	529.9	534.2	536.4	537.1	520.5	513.4	506.2	489.6	486.0	476.7	464.5
5°	623.4	629.1	627.7	624.8	604.7	581.7	563.0	532.0	527.0	504.7	477.4
7.5°	715.4	720.4	719.0	708.2	685.9	653.6	622.6	577.3	570.2	534.2	490.3
10°	792.3	796.6	795.9	785.1	758.5	719.0	681.6	621.2	612.6	561.5	501.1
12.5°	855.6	861.3	860.6	853.4	829.7	786.6	744.1	671.5	660.7	594.6	516.2
15°	905.2	912.4	912.4	909.5	893.0	857.0	808.9	726.9	713.9	632.7	534.9
17.5°	935.4	941.1	946.2	951.2	939.7	912.4	868.5	782.3	768.6	670.1	554.3
20°	951.2	957.0	960.6	971.3	973.5	959.8	925.3	836.9	822.5	712.5	576.6
22.5°	977.1	982.1	982.8	992.2	996.5	1000.1	978.5	890.8	879.3	759.2	601.8
25°	1020.2	1026.0	1023.8	1028.1	1028.9	1033.2	1031.0	952.6	941.1	812.4	632.0
27.5°	1075.6	1082.8	1081.3	1077.0	1070.6	1067.0	1076.3	1015.2	1004.4	865.7	662.9
30°	1135.3	1143.9	1141.7	1133.1	1115.9	1100.8	1113.7	1074.2	1064.1	920.3	697.4
32.5°	1195.7	1205.7	1205.0	1190.6	1161.2	1135.3	1154.7	1129.5	1122.3	979.3	734.8
35°	1235.2	1248.2	1246.7	1238.1	1200.0	1177.7	1201.4	1186.3	1181.3	1051.2	788.7
37.5°	1299.2	1312.9	1300.6	1279.1	1235.2	1223.7	1252.5	1250.3	1246.7	1127.4	845.5
40°	1454.5	1474.6	1442.3	1353.8	1281.9	1271.9	1312.9	1321.5	1317.9	1202.9	896.6
42.5°	1617.0	1647.2	1596.9	1474.6	1366.8	1330.1	1379.0	1391.2	1386.9	1267.6	942.6
45°	1715.5	1728.4	1678.1	1583.2	1517.0	1400.6	1449.5	1469.6	1466.0	1345.2	1001.5
47.5°	1796.0	1791.0	1733.5	1669.5	1681.7	1499.8	1529.3	1568.8	1565.9	1430.8	1066.2
50°	1813.3	1801.8	1778.8	1738.5	1770.9	1600.5	1613.4	1681.7	1678.8	1525.7	1131.7
52.5°	1691.8	1676.7	1739.2	1773.0	1762.2	1673.8	1706.1	1805.4	1803.9	1628.5	1194.2
55°	1388.4	1376.1	1544.4	1719.1	1752.9	1725.6	1809.0	1934.1	1942.0	1737.8	1251.0
57.5°	1092.1	1079.2	1244.6	1583.9	1718.4	1773.0	1929.0	2081.4	2091.5	1856.4	1305.0
60°	870.7	851.3	977.8	1371.1	1653.7	1809.7	2044.8	2243.2	2244.7	1965.0	1338.0
62.5°	591.7	570.2	710.4	1101.5	1545.1	1815.4	2133.9	2382.7	2388.5	2046.2	1343.8
65°	359.5	341.5	436.4	804.5	1384.8	1766.5	2135.4	2485.5	2490.6	2083.6	1309.3
67.5°	208.5	201.3	249.5	501.1	1118.7	1635.0	2045.5	2469.7	2479.0	2067.8	1230.9
70°	121.5	120.8	138.8	248.0	789.4	1374.0	1844.9	2336.7	2350.3	1985.1	1110.8
72.5°	89.2	90.6	97.8	133.0	457.3	989.3	1562.3	2069.2	2090.1	1823.3	939.7
75°	70.5	71.2	77.6	90.6	240.1	559.4	1170.5	1660.8	1677.4	1535.0	734.1
77.5°	52.5	53.9	59.0	64.0	111.4	256.7	658.6	1023.1	995.8	842.6	354.5
80°	38.1	41.7	43.9	46.0	59.0	99.2	197.7	356.6	353.7	368.1	167.5
82.5°	24.4	27.3	29.5	30.9	35.2	47.5	59.0	79.8	86.3	143.1	66.9
85°	10.8	12.2	13.7	16.5	15.1	16.5	24.4	15.8	13.7	21.6	12.2
87.5°	0.0	0.0	2.2	3.6	2.9	1.4	4.3	2.9	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°	453.7	453.7	453.7	453.7	453.7	453.7	453.7	453.7	453.7	453.7	453.7
2.5°	458.0	450.1	433.5	417.7	408.4	396.2	385.4	375.3	374.6	371.7	366.7
5°	463.7	448.6	417.7	388.2	366.0	342.2	322.1	306.3	300.5	296.2	290.5
7.5°	469.5	445.8	399.8	356.6	321.4	288.3	264.6	243.0	236.5	230.8	227.2
10°	471.7	440.7	378.9	321.4	275.4	240.1	215.0	199.2	193.4	190.5	188.4
12.5°	478.1	437.9	359.5	288.3	235.1	202.8	184.8	175.4	173.3	171.1	169.0
15°	486.8	437.9	340.1	256.0	203.5	177.6	166.8	160.3	158.9	158.2	156.7
17.5°	496.1	437.9	321.4	228.6	180.5	161.1	153.1	149.5	148.8	148.1	147.4
20°	509.0	438.6	301.3	204.9	163.9	148.8	142.4	138.0	137.3	136.6	136.6
22.5°	522.0	440.0	281.8	186.9	153.1	139.5	131.6	127.3	125.8	125.8	125.8
25°	538.5	444.3	263.9	171.8	143.8	130.9	120.8	117.2	116.5	116.5	115.8
27.5°	557.9	449.4	248.0	160.3	134.4	120.8	110.7	107.1	105.7	105.7	105.0
30°	578.8	454.4	235.1	151.7	125.1	110.7	101.4	97.1	95.6	96.3	95.6
32.5°	601.8	461.6	225.0	146.0	116.5	102.1	93.5	88.4	87.7	87.7	87.0
35°	640.6	481.7	223.6	143.1	109.3	95.6	87.0	82.0	81.2	81.2	80.5
37.5°	682.3	504.7	230.1	141.6	103.5	89.9	82.0	76.9	76.2	76.2	76.2
40°	717.5	522.0	237.3	141.6	99.9	84.8	77.6	73.3	73.3	73.3	73.3
42.5°	741.3	523.4	235.8	141.6	97.1	81.2	74.8	70.5	70.5	71.2	70.5
45°	776.5	530.6	230.1	139.5	94.9	78.4	71.9	68.3	67.6	68.3	68.3
47.5°	818.2	543.5	224.3	130.9	94.2	75.5	69.7	65.4	64.7	65.4	64.7
50°	857.7	555.1	221.4	119.4	92.7	72.6	66.9	62.6	61.8	62.6	61.8
52.5°	890.8	560.1	216.4	111.4	89.2	69.7	64.0	59.7	58.2	59.0	59.0
55°	917.4	558.6	209.2	105.0	82.7	66.9	60.4	56.8	54.6	54.6	53.9
57.5°	941.9	559.4	202.8	98.5	75.5	62.6	57.5	53.2	50.3	49.6	48.9
60°	951.2	555.8	191.2	89.9	68.3	59.0	53.9	48.9	46.0	45.3	44.6
62.5°	938.3	542.8	176.2	74.8	61.8	54.6	50.3	45.3	42.4	41.7	41.0
65°	901.6	518.4	153.1	59.0	56.1	49.6	46.0	42.4	38.8	37.4	36.7
67.5°	839.1	483.2	124.4	47.5	49.6	45.3	43.1	38.8	34.5	33.1	32.4
70°	749.9	436.4	93.5	40.3	43.9	40.3	38.8	34.5	30.9	29.5	28.8
72.5°	624.8	360.9	65.4	34.5	38.1	35.2	33.8	30.9	27.3	25.2	25.2
75°	472.4	258.8	43.1	29.5	31.6	30.2	28.0	25.9	23.7	22.3	21.6
77.5°	203.5	100.7	26.6	22.3	25.9	25.2	22.3	20.9	20.1	18.7	18.7
80°	87.7	41.0	16.5	16.5	18.7	18.0	17.3	15.8	15.8	15.1	14.4
82.5°	32.4	16.5	10.1	12.2	13.7	12.2	12.2	12.2	12.2	11.5	11.5
85°	7.9	5.0	5.0	7.2	7.9	7.2	7.9	7.2	7.2	7.2	6.5
87.5°	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.2	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)