

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: P798726

Luminaire Tested: **ARCH1-30-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798726
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: ARCH1-30-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

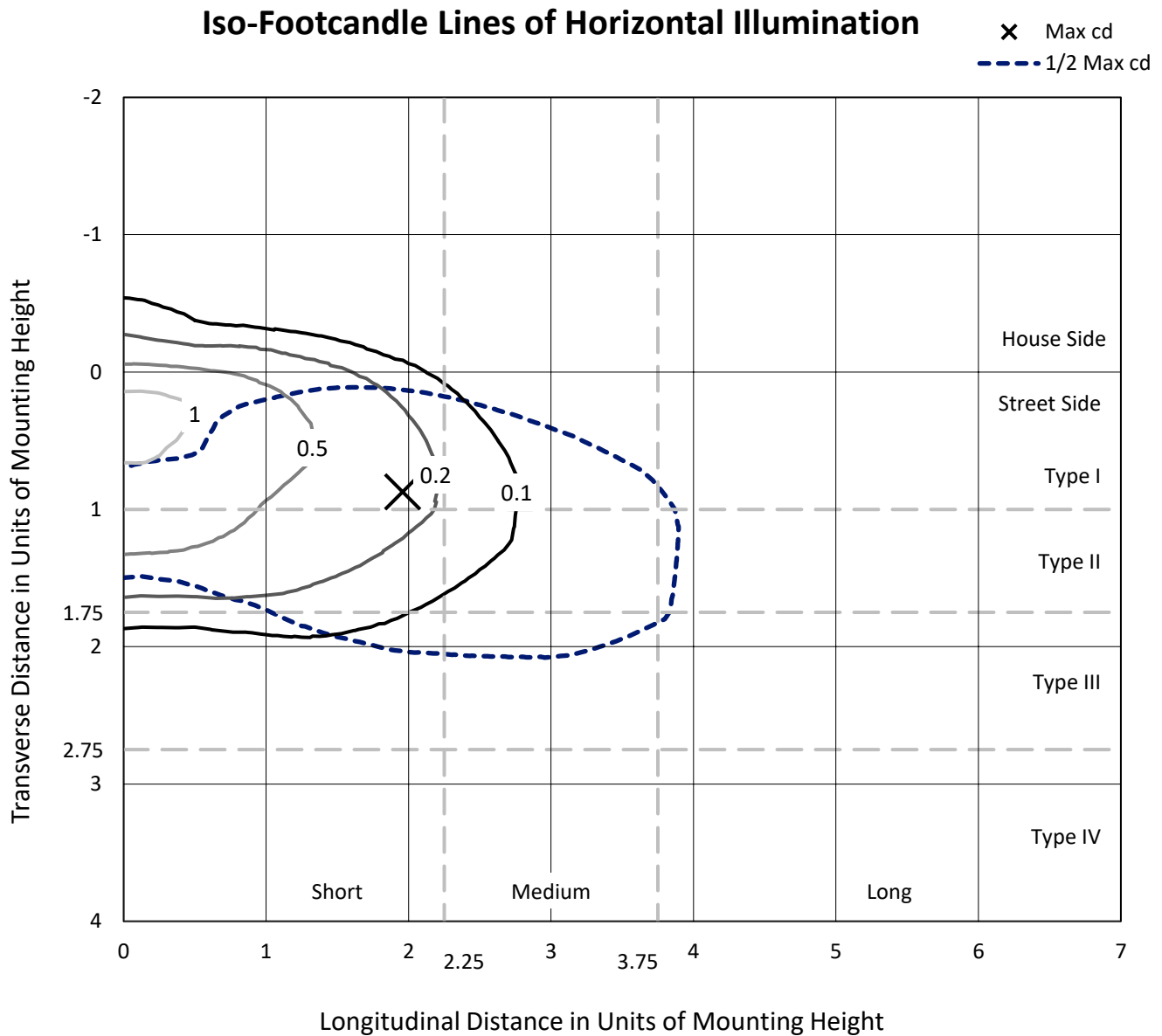
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3049 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - 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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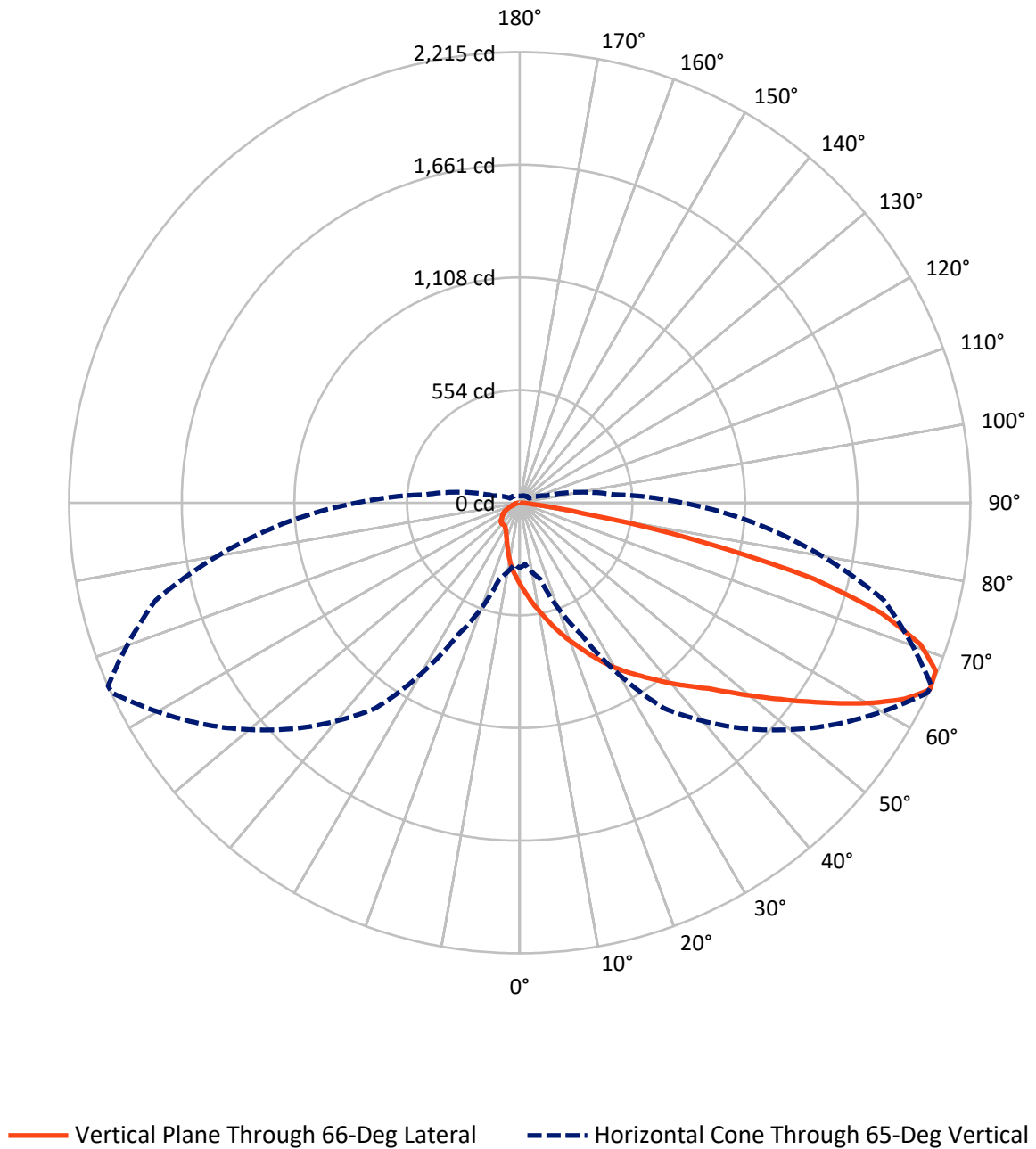


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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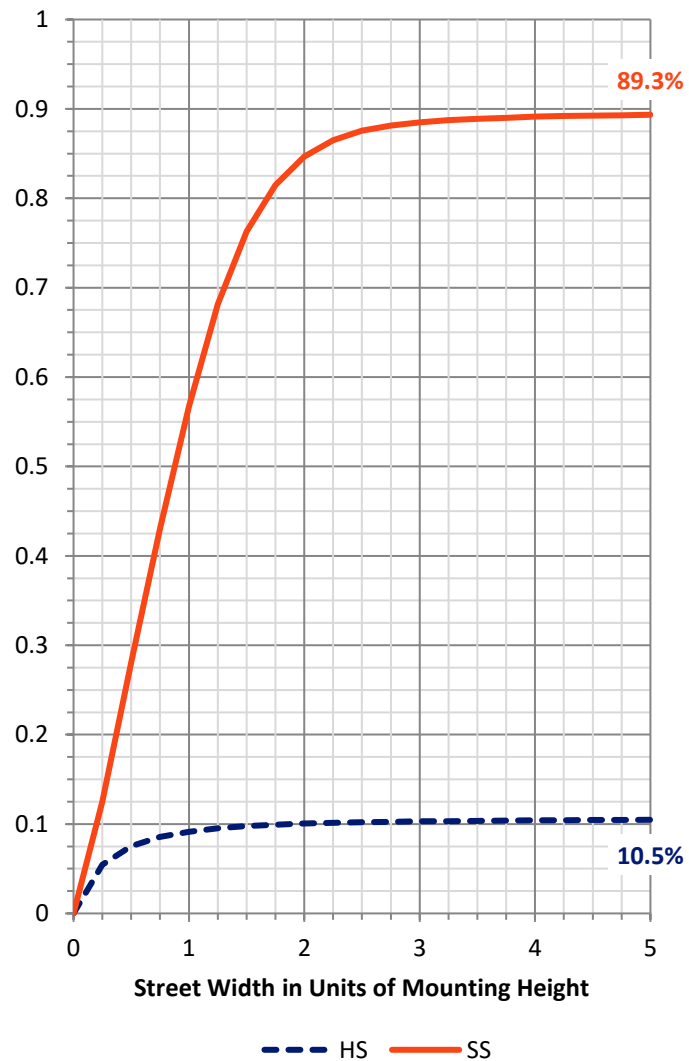
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	322.5	0.0	322.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2726.5	0.0	2726.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	3049.0	0.0	3049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	1.3
10°-20°	129.8	4.3
20°-30°	234.9	7.7
30°-40°	367.3	12.0
40°-50°	557.1	18.3
50°-60°	707.9	23.2
60°-70°	661.4	21.7
70°-80°	328.7	10.8
80°-90°	22.1	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°	3049.0	100.0
0°-180°	3049.0	100.0

Coefficient of Utilization



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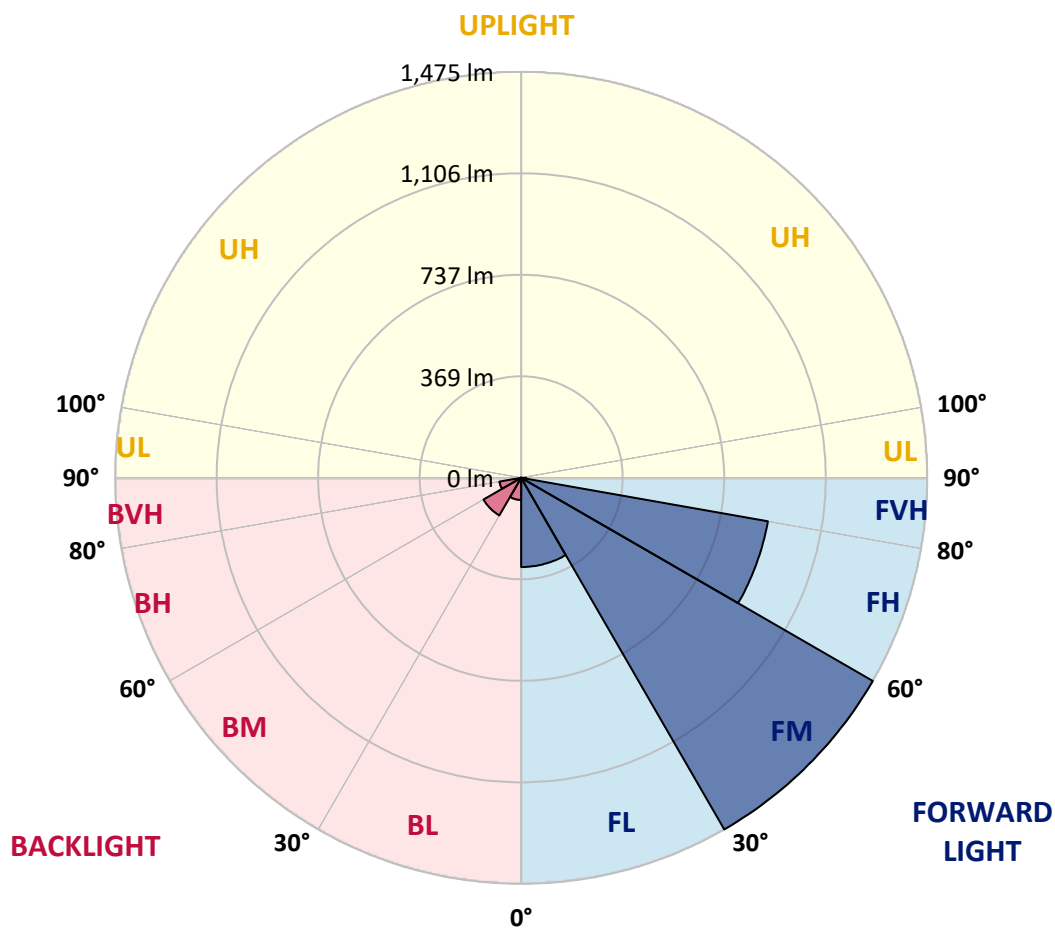
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.0	10.6			
FM	(30°-60°)	1474.5	48.4			
FH	(60°-80°)	909.8	29.8			G1/1800
FVH	(80°-90°)	18.2	0.6			G1/100
BL	(0°-30°)	80.5	2.6	B0/110		
BM	(30°-60°)	157.7	5.2	B0/220		
BH	(60°-80°)	80.3	2.6	B0/110		G0/110
BVH	(80°-90°)	3.9	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°	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.5
2.5°	471.3	475.1	477.1	477.7	463.0	456.6	450.2	435.5	432.3	424.0	413.1
5°	554.4	559.6	558.3	555.7	537.8	517.3	500.7	473.2	468.7	448.9	424.6
7.5°	636.3	640.8	639.5	629.9	610.1	581.3	553.8	513.5	507.1	475.1	436.1
10°	704.7	708.6	707.9	698.3	674.7	639.5	606.2	552.5	544.8	499.4	445.7
12.5°	761.0	766.1	765.5	759.1	738.0	699.6	661.9	597.3	587.7	528.9	459.2
15°	805.1	811.5	811.5	809.0	794.2	762.3	719.4	646.5	635.0	562.8	475.8
17.5°	832.0	837.1	841.6	846.0	835.8	811.5	772.5	695.8	683.6	596.0	493.0
20°	846.0	851.2	854.4	864.0	865.9	853.7	823.0	744.4	731.6	633.7	512.9
22.5°	869.1	873.5	874.2	882.5	886.3	889.5	870.3	792.3	782.1	675.3	535.3
25°	907.4	912.6	910.6	914.5	915.1	918.9	917.0	847.3	837.1	722.6	562.1
27.5°	956.7	963.1	961.8	958.0	952.2	949.0	957.3	903.0	893.4	769.9	589.6
30°	1009.8	1017.4	1015.5	1007.8	992.5	979.1	990.6	955.4	946.4	818.5	620.3
32.5°	1063.5	1072.4	1071.8	1059.0	1032.8	1009.8	1027.0	1004.6	998.2	871.0	653.6
35°	1098.6	1110.2	1108.9	1101.2	1067.3	1047.5	1068.6	1055.2	1050.7	934.9	701.5
37.5°	1155.6	1167.7	1156.8	1137.7	1098.6	1088.4	1114.0	1112.1	1108.9	1002.7	752.0
40°	1293.7	1311.6	1282.8	1204.2	1140.2	1131.3	1167.7	1175.4	1172.2	1069.9	797.4
42.5°	1438.2	1465.1	1420.3	1311.6	1215.7	1183.1	1226.5	1237.4	1233.6	1127.4	838.4
45°	1525.8	1537.3	1492.6	1408.2	1349.3	1245.7	1289.2	1307.1	1303.9	1196.5	890.8
47.5°	1597.4	1593.0	1541.8	1484.9	1495.8	1334.0	1360.2	1395.4	1392.8	1272.6	948.4
50°	1612.8	1602.6	1582.1	1546.3	1575.1	1423.5	1435.0	1495.8	1493.2	1357.0	1006.6
52.5°	1504.7	1491.3	1546.9	1577.0	1567.4	1488.7	1517.5	1605.8	1604.5	1448.4	1062.2
55°	1234.9	1224.0	1373.6	1529.0	1559.1	1534.8	1609.0	1720.2	1727.3	1545.6	1112.7
57.5°	971.4	959.9	1107.0	1408.8	1528.4	1577.0	1715.8	1851.3	1860.3	1651.2	1160.7
60°	774.4	757.2	869.7	1219.5	1470.8	1609.6	1818.7	1995.2	1996.5	1747.7	1190.1
62.5°	526.3	507.1	631.8	979.7	1374.3	1614.7	1898.0	2119.3	2124.4	1820.0	1195.2
65°	319.7	303.8	388.2	715.6	1231.7	1571.2	1899.3	2210.7	2215.2	1853.2	1164.5
67.5°	185.5	179.1	221.9	445.7	995.0	1454.2	1819.4	2196.6	2205.0	1839.2	1094.8
70°	108.1	107.4	123.4	220.6	702.2	1222.1	1640.9	2078.3	2090.5	1765.6	988.0
72.5°	79.3	80.6	87.0	118.3	406.7	879.9	1389.6	1840.5	1859.0	1621.7	835.8
75°	62.7	63.3	69.1	80.6	213.6	497.5	1041.1	1477.2	1491.9	1365.3	652.9
77.5°	46.7	48.0	52.4	56.9	99.1	228.3	585.8	910.0	885.7	749.5	315.3
80°	33.9	37.1	39.0	40.9	52.4	88.2	175.9	317.2	314.6	327.4	149.0
82.5°	21.7	24.3	26.2	27.5	31.3	42.2	52.4	71.0	76.7	127.3	59.5
85°	9.6	10.9	12.2	14.7	13.4	14.7	21.7	14.1	12.2	19.2	10.9
87.5°	0.0	0.0	1.9	3.2	2.6	1.3	3.8	2.6	1.9	1.9	1.9
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°	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.5
2.5°	407.4	400.3	385.6	371.5	363.2	352.4	342.8	333.8	333.2	330.6	326.1
5°	412.5	399.0	371.5	345.3	325.5	304.4	286.5	272.4	267.3	263.5	258.4
7.5°	417.6	396.5	355.6	317.2	285.9	256.4	235.3	216.1	210.4	205.3	202.1
10°	419.5	392.0	337.0	285.9	244.9	213.6	191.2	177.1	172.0	169.5	167.5
12.5°	425.3	389.4	319.7	256.4	209.1	180.3	164.3	156.0	154.1	152.2	150.3
15°	432.9	389.4	302.5	227.7	181.0	158.0	148.4	142.6	141.3	140.7	139.4
17.5°	441.2	389.4	285.9	203.4	160.5	143.2	136.2	133.0	132.4	131.7	131.1
20°	452.8	390.1	267.9	182.3	145.8	132.4	126.6	122.8	122.1	121.5	121.5
22.5°	464.3	391.4	250.7	166.3	136.2	124.1	117.0	113.2	111.9	111.9	111.9
25°	479.0	395.2	234.7	152.8	127.9	116.4	107.4	104.2	103.6	103.6	103.0
27.5°	496.2	399.7	220.6	142.6	119.6	107.4	98.5	95.3	94.0	94.0	93.4
30°	514.8	404.2	209.1	134.9	111.3	98.5	90.2	86.3	85.1	85.7	85.1
32.5°	535.3	410.6	200.2	129.8	103.6	90.8	83.1	78.7	78.0	78.0	77.4
35°	569.8	428.5	198.9	127.3	97.2	85.1	77.4	72.9	72.3	72.3	71.6
37.5°	606.9	448.9	204.6	126.0	92.1	79.9	72.9	68.4	67.8	67.8	67.8
40°	638.2	464.3	211.0	126.0	88.9	75.5	69.1	65.2	65.2	65.2	65.2
42.5°	659.3	465.5	209.8	126.0	86.3	72.3	66.5	62.7	62.7	63.3	62.7
45°	690.6	471.9	204.6	124.1	84.4	69.7	63.9	60.8	60.1	60.8	60.8
47.5°	727.7	483.5	199.5	116.4	83.8	67.1	62.0	58.2	57.6	58.2	57.6
50°	762.9	493.7	197.0	106.2	82.5	64.6	59.5	55.6	55.0	55.6	55.0
52.5°	792.3	498.2	192.5	99.1	79.3	62.0	56.9	53.1	51.8	52.4	52.4
55°	816.0	496.9	186.1	93.4	73.5	59.5	53.7	50.5	48.6	48.6	48.0
57.5°	837.7	497.5	180.3	87.6	67.1	55.6	51.2	47.3	44.8	44.1	43.5
60°	846.0	494.3	170.1	79.9	60.8	52.4	48.0	43.5	40.9	40.3	39.6
62.5°	834.5	482.8	156.7	66.5	55.0	48.6	44.8	40.3	37.7	37.1	36.5
65°	801.9	461.1	136.2	52.4	49.9	44.1	40.9	37.7	34.5	33.3	32.6
67.5°	746.3	429.7	110.6	42.2	44.1	40.3	38.4	34.5	30.7	29.4	28.8
70°	667.0	388.2	83.1	35.8	39.0	35.8	34.5	30.7	27.5	26.2	25.6
72.5°	555.7	321.0	58.2	30.7	33.9	31.3	30.1	27.5	24.3	22.4	22.4
75°	420.1	230.2	38.4	26.2	28.1	26.9	24.9	23.0	21.1	19.8	19.2
77.5°	181.0	89.5	23.7	19.8	23.0	22.4	19.8	18.5	17.9	16.6	16.6
80°	78.0	36.5	14.7	14.7	16.6	16.0	15.3	14.1	14.1	13.4	12.8
82.5°	28.8	14.7	9.0	10.9	12.2	10.9	10.9	10.9	10.9	10.2	10.2
85°	7.0	4.5	4.5	6.4	7.0	6.4	7.0	6.4	6.4	6.4	5.8
87.5°	1.9	1.9	2.6	2.6	2.6	2.6	2.6	1.9	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)