

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: P1210174

Luminaire Tested: **ARCH2-40-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4624 lumens
Efficiency: N/A
Efficacy: 104.9 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

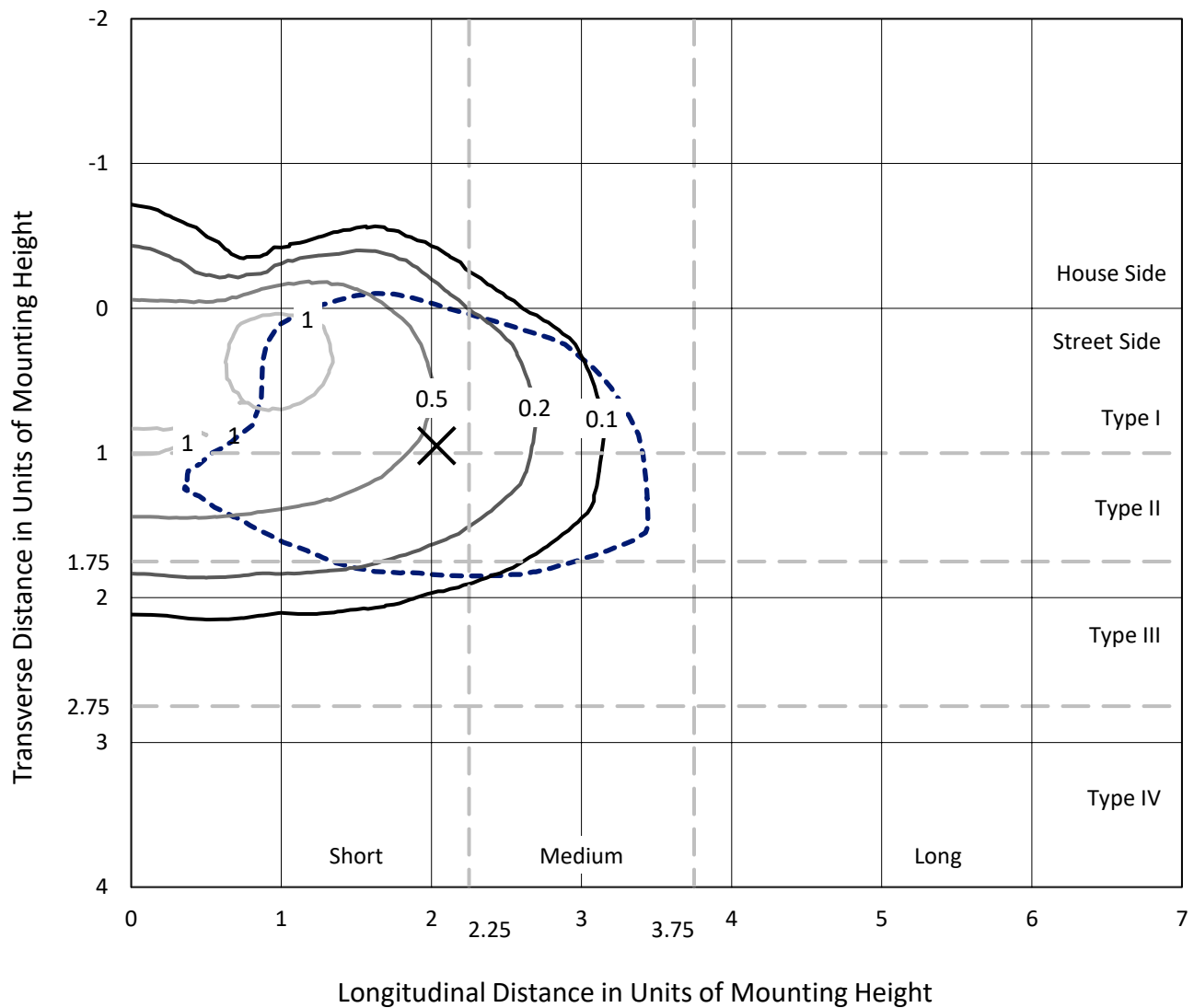
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

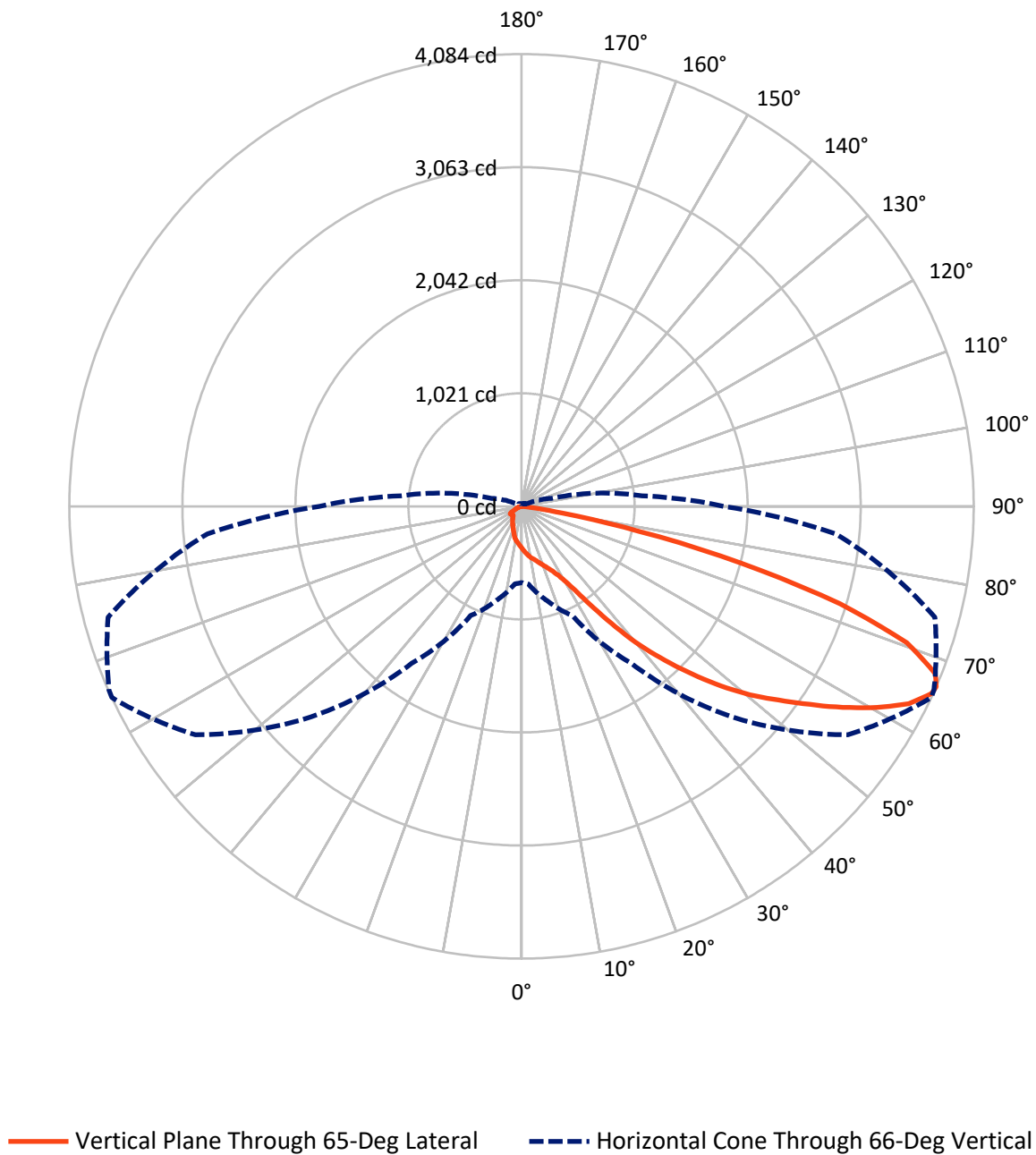
✕ Max cd
 - - - 1/2 Max cd



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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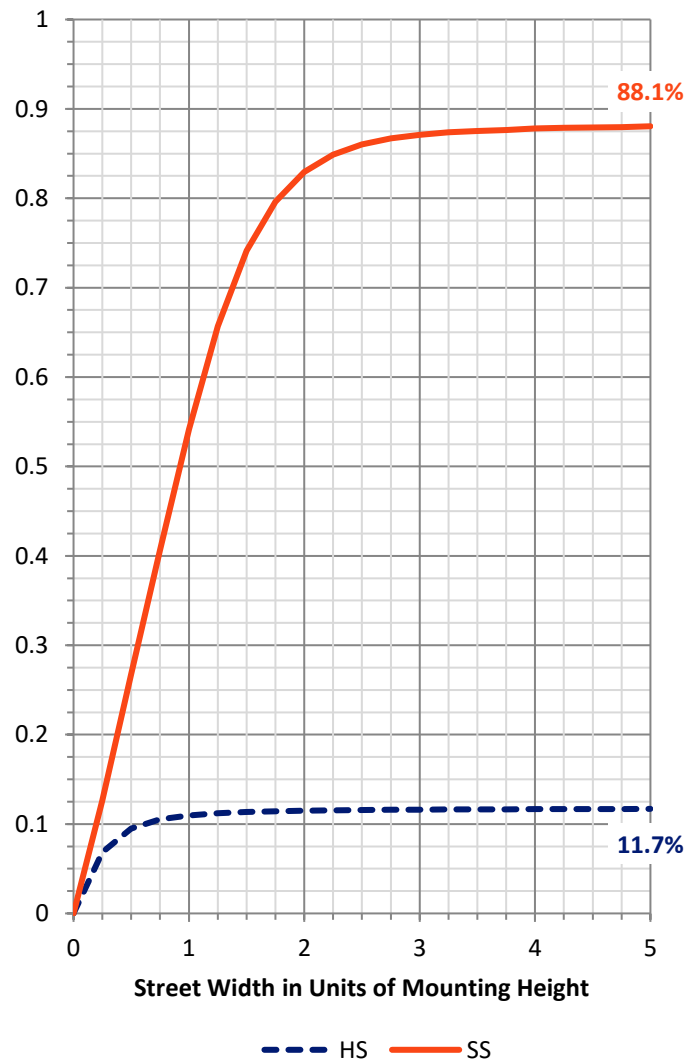
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	545.7	0.0	545.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4078.3	0.0	4078.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	4624.0	0.0	4624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	0.8
10°-20°	105.7	2.3
20°-30°	193.5	4.2
30°-40°	393.2	8.5
40°-50°	830.3	18.0
50°-60°	1276.5	27.6
60°-70°	1284.9	27.8
70°-80°	480.1	10.4
80°-90°	24.0	0.5
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°	4624.0	100.0
0°-180°	4624.0	100.0

Coefficient of Utilization



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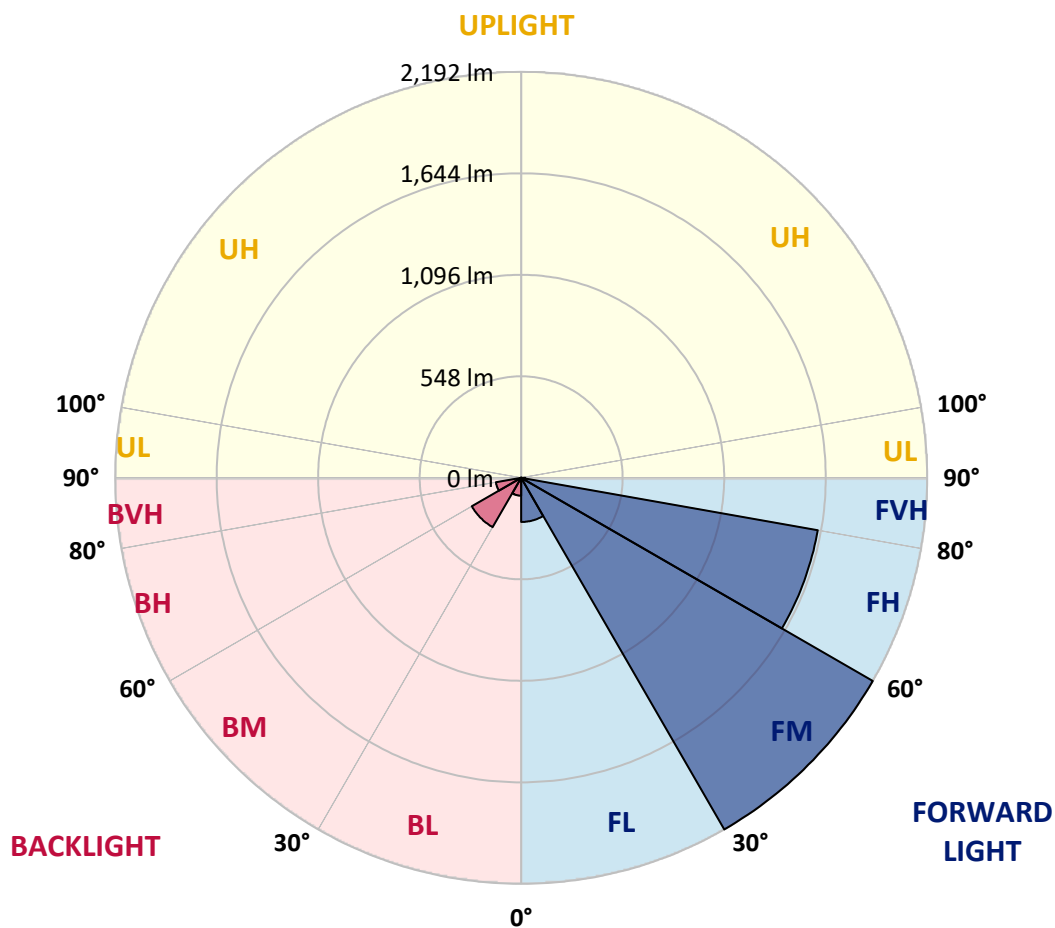
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.4	5.2			
FM	(30°-60°)	2192.4	47.4			
FH	(60°-80°)	1626.4	35.2			G1/1800
FVH	(80°-90°)	21.2	0.5			G1/100
BL	(0°-30°)	96.6	2.1	B0/110		
BM	(30°-60°)	307.7	6.7	B1/1000		
BH	(60°-80°)	138.6	3.0	B1/500		G1/500
BVH	(80°-90°)	2.8	0.1			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°	45°	55°	65°	66°	75°	85°
0°	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7
2.5°	429.6	430.4	428.7	425.4	422.0	417.8	411.1	400.2	398.5	391.0	382.6
5°	459.0	460.6	458.1	457.3	455.6	449.7	440.5	424.6	422.9	407.8	388.5
7.5°	469.0	471.5	469.9	469.9	469.9	467.3	463.1	448.9	446.4	427.1	397.7
10°	476.6	478.2	477.4	480.8	483.3	481.6	479.1	470.7	468.2	448.9	410.3
12.5°	488.3	489.2	490.0	491.7	495.9	497.5	496.7	489.2	487.5	474.1	426.2
15°	499.2	499.2	500.1	507.6	513.5	516.8	517.7	511.8	510.1	499.2	446.4
17.5°	509.3	510.1	512.6	521.0	531.1	537.8	542.0	539.5	537.0	528.6	469.9
20°	524.4	526.1	528.6	540.3	550.4	561.3	569.7	568.9	568.0	562.2	497.5
22.5°	550.4	552.1	556.3	567.2	577.3	590.7	604.9	604.1	601.6	597.4	530.3
25°	589.8	589.8	592.4	601.6	614.2	630.1	643.5	646.1	643.5	641.0	571.4
27.5°	639.3	640.2	640.2	650.3	662.0	682.1	698.9	701.4	701.4	698.9	626.8
30°	708.1	705.6	703.9	712.3	724.9	754.3	783.7	788.7	786.2	790.4	704.8
32.5°	826.4	822.3	808.0	809.7	817.2	857.5	907.0	924.6	923.8	931.3	830.6
35°	990.1	981.7	960.7	943.1	942.2	985.9	1061.4	1127.7	1126.8	1152.8	1021.9
37.5°	1174.6	1185.6	1146.1	1115.9	1106.7	1141.1	1238.4	1381.9	1389.4	1434.7	1272.8
40°	1421.3	1428.0	1377.7	1334.9	1291.3	1303.9	1432.2	1655.4	1668.8	1719.2	1523.7
42.5°	1636.1	1642.8	1613.5	1561.4	1506.1	1482.6	1627.7	1903.8	1914.7	1984.3	1782.1
45°	1782.1	1787.1	1797.2	1802.2	1739.3	1690.7	1866.8	2158.8	2172.3	2252.8	2034.7
47.5°	1896.2	1900.4	1920.5	1970.9	1958.3	1919.7	2110.2	2424.0	2427.3	2517.1	2280.5
50°	1949.1	1959.1	2008.6	2085.8	2141.2	2152.1	2374.5	2674.8	2684.1	2769.6	2512.9
52.5°	1890.3	1893.7	2018.7	2163.9	2275.5	2386.2	2639.6	2907.2	2934.1	2997.9	2721.8
55°	1692.3	1716.7	1906.3	2161.3	2381.2	2608.6	2923.2	3158.1	3182.5	3222.7	2905.6
57.5°	1462.4	1489.3	1720.0	2053.1	2426.5	2814.1	3185.8	3424.9	3441.7	3452.6	3074.2
60°	1263.6	1288.8	1526.2	1845.9	2381.2	2959.3	3430.0	3690.1	3704.3	3675.0	3159.0
62.5°	1019.4	1044.6	1283.7	1571.5	2203.3	2988.6	3611.2	3925.8	3931.7	3852.0	3106.9
65°	768.6	785.3	985.0	1231.7	1892.0	2832.6	3652.3	4072.7	4066.8	3903.2	2950.9
66°	688.8	703.1	879.3	1089.1	1730.1	2689.9	3596.9	4084.4	4078.5	3865.4	2848.5
67.5°	594.0	598.2	743.4	891.1	1447.3	2387.0	3428.3	4030.7	4035.7	3761.4	2661.4
70°	464.0	463.1	547.0	620.0	988.4	1698.2	2859.4	3692.6	3716.9	3368.7	2269.6
72.5°	297.0	286.9	335.6	379.2	575.6	985.9	2085.0	3009.6	3050.7	2646.3	1690.7
75°	177.0	167.0	178.7	189.6	276.0	474.1	1225.8	2048.1	2087.5	1696.5	1006.0
77.5°	132.6	128.4	129.2	120.0	122.5	177.9	559.6	1082.4	1110.9	694.7	381.8
80°	101.5	90.6	84.7	88.9	80.5	70.5	208.1	372.5	390.2	164.5	79.7
82.5°	68.0	58.7	54.5	59.6	51.2	39.4	50.3	72.2	70.5	44.5	31.0
85°	35.2	30.2	30.2	30.2	26.0	19.3	21.8	29.4	29.4	23.5	18.5
87.5°	10.1	9.2	10.9	10.1	7.6	7.6	8.4	10.1	10.1	9.2	8.4
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°	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7
2.5°	375.9	372.5	363.3	356.6	349.9	344.0	337.3	335.6	332.3	333.1	331.4
5°	378.4	369.2	353.2	338.1	326.4	316.3	303.7	298.7	292.0	289.5	287.8
7.5°	381.8	368.3	344.8	323.9	303.7	283.6	263.5	251.7	244.2	240.8	238.3
10°	389.3	371.7	340.6	307.9	273.5	245.0	224.9	216.5	211.4	210.6	209.8
12.5°	399.4	376.7	336.5	287.8	242.5	215.6	203.0	200.5	199.7	199.7	198.9
15°	414.5	385.1	329.7	264.3	218.1	199.7	193.8	189.6	187.9	187.9	187.9
17.5°	429.6	395.2	319.7	240.0	201.4	189.6	183.7	181.2	179.6	180.4	179.6
20°	448.9	406.9	306.2	219.0	190.5	181.2	175.4	172.8	172.0	172.0	172.0
22.5°	470.7	420.4	289.5	203.0	181.2	172.8	167.0	164.5	162.8	163.6	163.6
25°	500.1	437.1	271.8	187.1	172.0	164.5	157.7	154.4	154.4	155.2	156.1
27.5°	537.8	457.3	254.2	177.0	163.6	156.1	148.5	145.2	146.0	147.7	147.7
30°	593.2	485.0	236.6	166.1	154.4	146.0	139.3	135.9	137.6	141.0	141.0
32.5°	672.1	530.3	221.5	153.5	141.0	131.7	125.0	122.5	126.7	133.4	133.4
35°	813.0	613.3	212.3	141.0	126.7	115.8	107.4	104.9	110.8	119.1	119.1
37.5°	1001.8	746.7	215.6	130.1	114.9	102.4	93.1	89.8	94.0	101.5	104.0
40°	1212.4	907.8	245.0	120.8	104.0	91.5	82.2	78.9	81.4	84.7	85.6
42.5°	1423.0	1079.0	300.4	114.1	95.6	82.2	73.8	71.3	73.0	73.8	74.7
45°	1632.8	1248.5	370.0	109.9	88.1	74.7	66.3	66.3	67.1	67.1	67.1
47.5°	1831.6	1413.8	443.0	109.1	81.4	67.1	60.4	61.2	61.2	62.1	62.1
50°	2019.6	1561.4	516.8	111.6	75.5	60.4	55.4	55.4	55.4	56.2	55.4
52.5°	2176.5	1690.7	594.0	115.8	69.6	55.4	50.3	50.3	50.3	51.2	50.3
55°	2325.0	1808.1	672.9	121.7	64.6	51.2	46.1	44.5	44.5	45.3	44.5
57.5°	2445.8	1886.1	747.6	122.5	60.4	47.0	42.8	40.3	40.3	40.3	40.3
60°	2450.8	1840.8	769.4	107.4	55.4	42.8	38.6	35.2	36.1	36.1	36.1
62.5°	2290.6	1602.6	618.4	80.5	49.5	38.6	35.2	31.9	31.9	31.9	31.9
65°	1975.9	1246.8	362.5	63.8	42.8	34.4	31.0	28.5	28.5	28.5	27.7
66°	1828.3	1093.3	277.7	57.9	40.3	33.6	30.2	27.7	26.8	26.0	26.0
67.5°	1587.5	864.2	173.7	51.2	36.9	31.0	27.7	25.2	24.3	23.5	23.5
70°	1195.6	548.7	84.7	39.4	31.9	26.8	24.3	21.8	21.0	20.1	19.3
72.5°	839.0	321.3	44.5	30.2	26.0	23.5	21.0	18.5	17.6	16.8	16.8
75°	474.1	155.2	29.4	21.8	21.0	19.3	17.6	15.1	14.3	14.3	14.3
77.5°	179.6	53.7	20.1	15.9	16.8	15.1	12.6	12.6	11.7	12.6	11.7
80°	47.0	23.5	12.6	11.7	12.6	10.9	9.2	10.1	10.1	10.1	10.1
82.5°	25.2	13.4	7.6	8.4	7.6	7.6	5.9	6.7	7.6	6.7	7.6
85°	17.6	6.7	4.2	4.2	3.4	3.4	2.5	3.4	4.2	3.4	3.4
87.5°	9.2	2.5	2.5	2.5	2.5	1.7	0.8	0.0	0.8	0.8	0.8
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)