

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: P836540

Luminaire Tested: **ARCH3-40-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5111 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.6
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

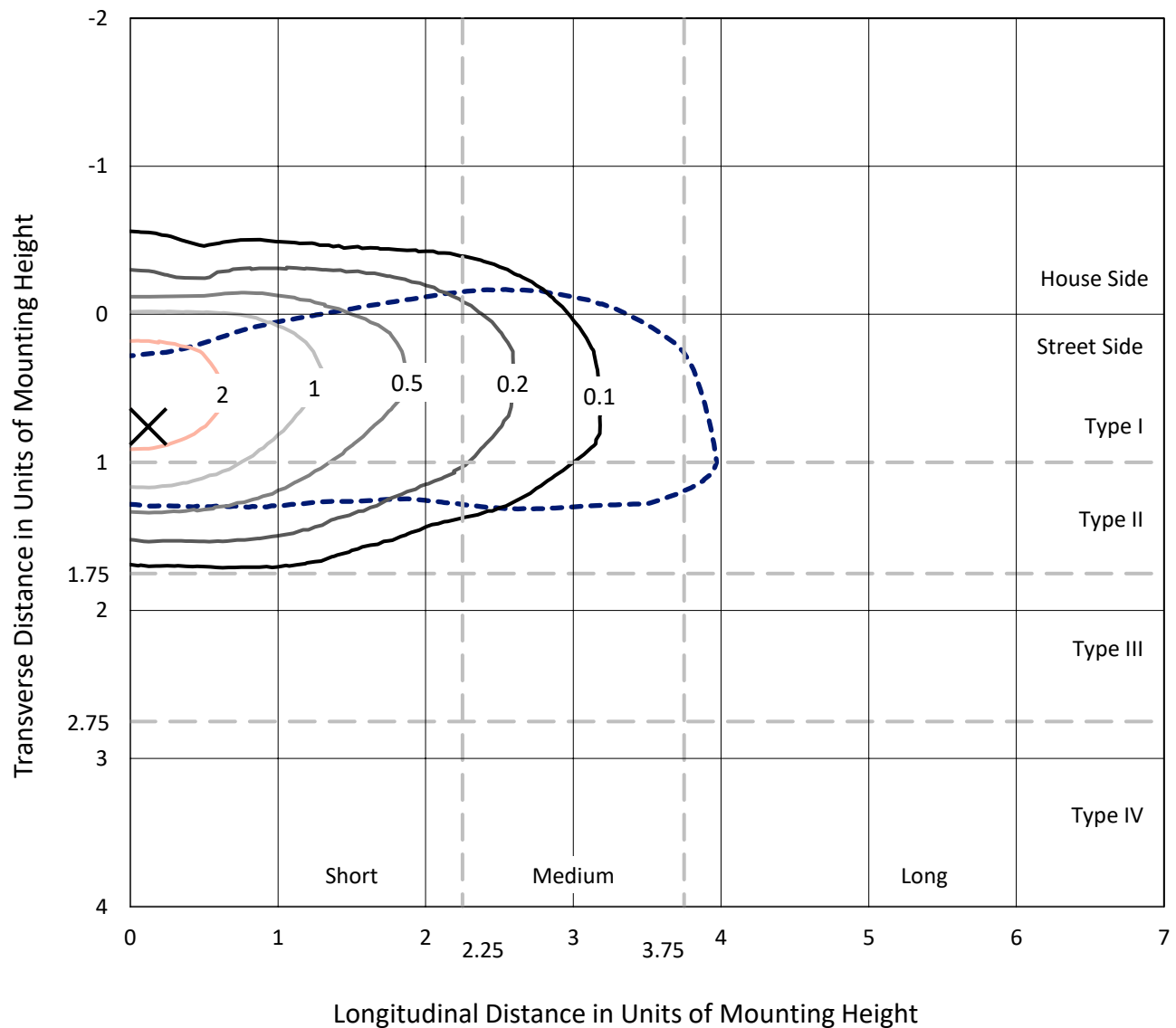


REPORT NUMBER: P836540

CATALOG NUMBER: ARCH3-40-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

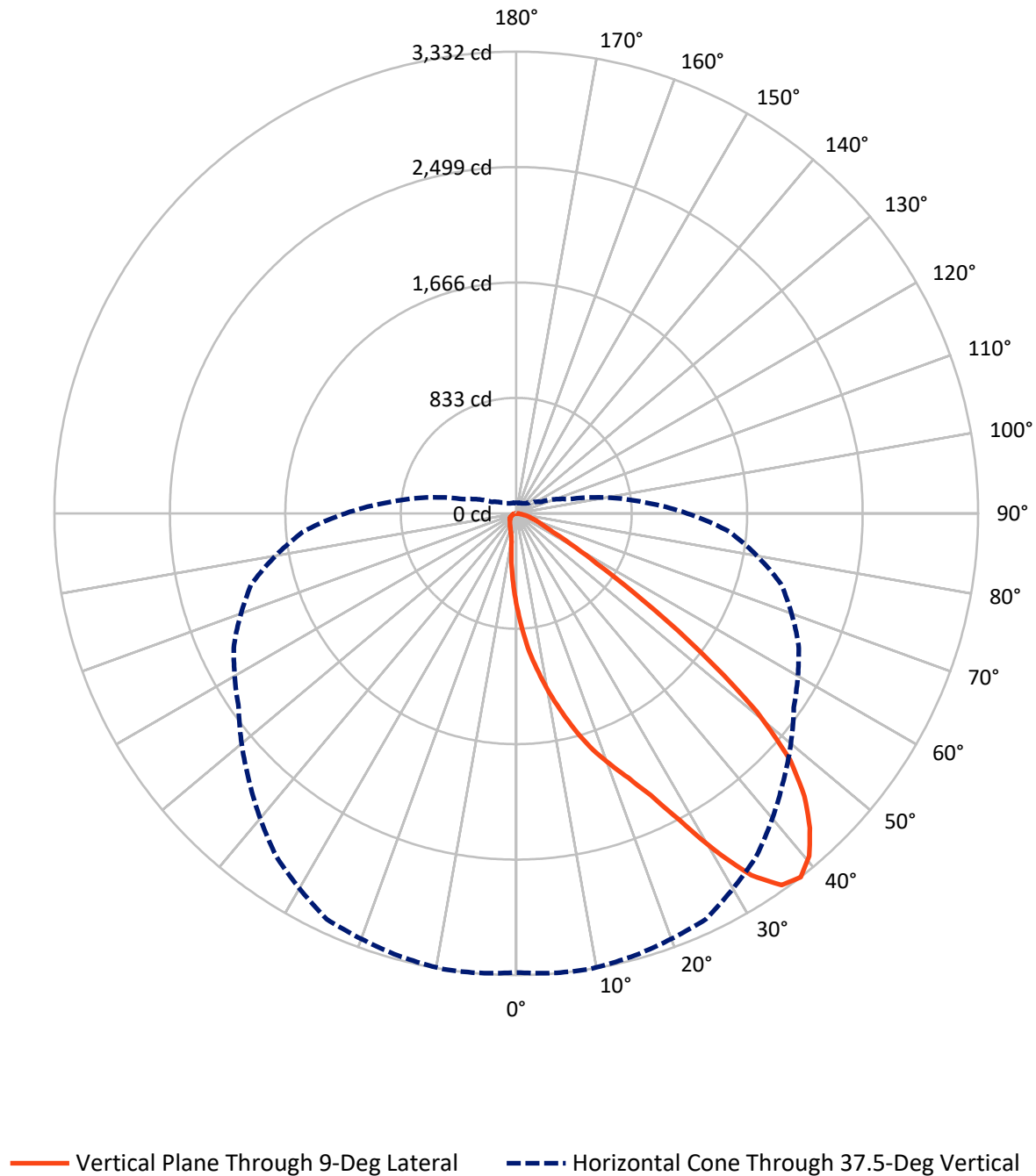
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type II - Short - N/A

REPORT NUMBER: P836540
CATALOG NUMBER: ARCH3-40-730-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836540

CATALOG NUMBER: ARCH3-40-730-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.6	0.0	621.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4489.4	0.0	4489.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	5111.0	0.0	5111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.3
10°-20°	236.0	4.6
20°-30°	485.0	9.5
30°-40°	857.3	16.8
40°-50°	1138.8	22.3
50°-60°	1080.1	21.1
60°-70°	824.0	16.1
70°-80°	399.5	7.8
80°-90°	22.5	0.4
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°	5111.0	100.0
0°-180°	5111.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836540

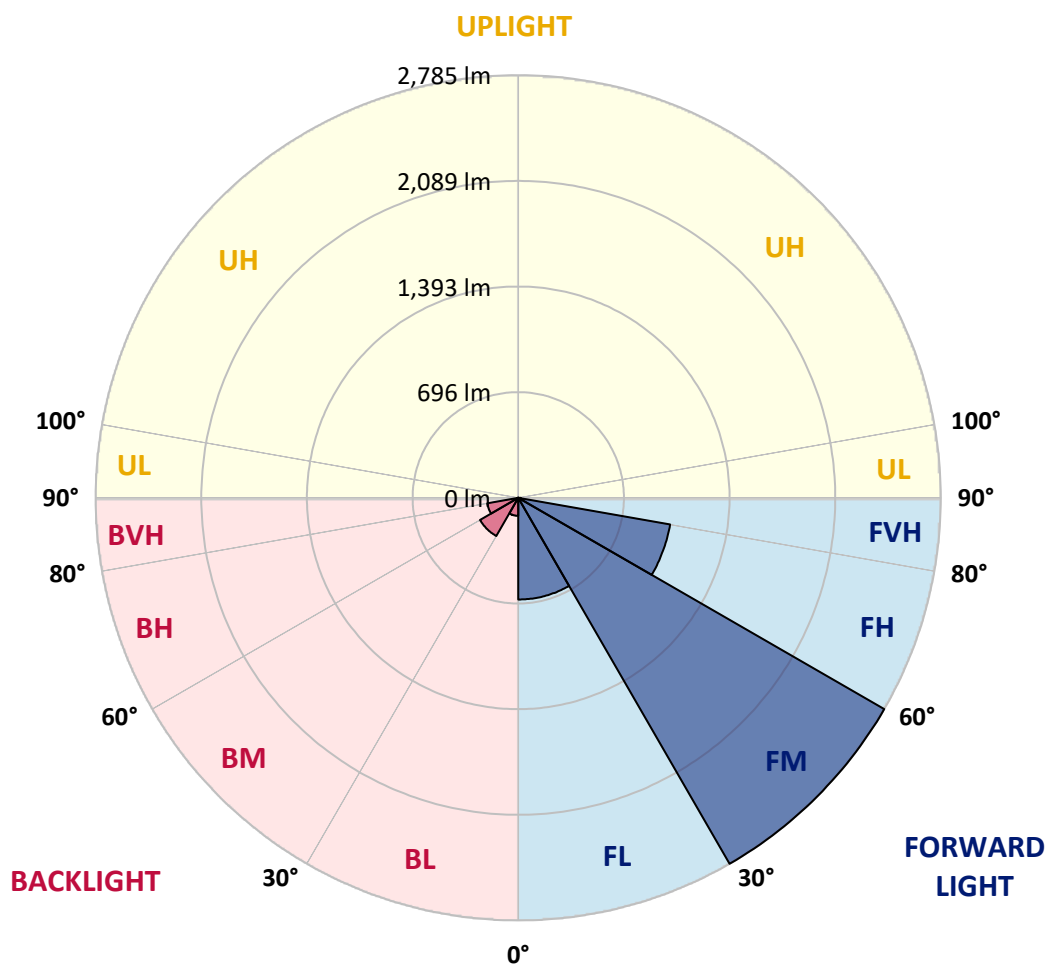
CATALOG NUMBER: ARCH3-40-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	670.3	13.1			
FM	(30°-60°)	2785.2	54.5			
FH	(60°-80°)	1016.1	19.9			G1/1800
FVH	(80°-90°)	17.8	0.3			G1/100
BL	(0°-30°)	118.6	2.3	B1/500		
BM	(30°-60°)	290.9	5.7	B1/1000		
BH	(60°-80°)	207.4	4.1	B1/500		G1/500
BVH	(80°-90°)	4.7	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 II Short



REPORT NUMBER: P836540

CATALOG NUMBER: ARCH3-40-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6
2.5°	837.2	822.5	839.3	837.2	822.5	813.0	783.7	774.2	739.6	714.4	692.4
5°	1009.2	994.5	1009.2	1005.0	984.0	961.0	912.7	881.2	819.3	764.8	715.5
7.5°	1151.9	1151.9	1158.2	1159.2	1134.1	1098.4	1038.6	991.4	904.3	820.4	741.7
10°	1306.1	1307.2	1320.8	1311.4	1277.8	1229.5	1154.0	1094.2	989.3	879.1	766.9
12.5°	1470.8	1471.9	1476.1	1471.9	1432.0	1370.1	1278.8	1200.2	1079.5	946.3	801.5
15°	1635.5	1636.6	1641.8	1634.5	1590.4	1518.0	1414.2	1317.7	1175.0	1021.8	843.5
17.5°	1789.7	1791.8	1796.0	1786.6	1740.4	1654.4	1548.5	1432.0	1276.7	1102.6	890.7
20°	1928.2	1930.3	1933.5	1920.9	1874.7	1788.7	1674.3	1552.6	1380.6	1185.5	942.1
22.5°	2067.8	2069.8	2075.1	2058.3	2006.9	1908.3	1796.0	1670.1	1490.8	1276.7	1001.9
25°	2246.1	2248.2	2252.4	2228.3	2158.0	2042.6	1924.0	1795.0	1610.3	1379.6	1075.3
27.5°	2507.3	2505.2	2505.2	2461.2	2340.5	2190.5	2053.1	1921.9	1739.4	1489.7	1156.1
30°	2830.4	2825.2	2822.0	2762.2	2590.2	2357.3	2185.2	2040.5	1863.2	1606.2	1243.2
32.5°	3120.0	3120.0	3113.7	3050.7	2868.2	2581.8	2325.8	2155.9	1982.8	1723.7	1333.4
35°	3291.0	3298.3	3295.2	3248.0	3114.7	2823.1	2515.7	2294.4	2108.7	1846.4	1441.4
37.5°	3314.1	3328.8	3331.9	3303.6	3233.3	3020.3	2726.6	2444.4	2247.1	1978.6	1546.4
40°	3220.7	3252.2	3252.2	3248.0	3222.8	3113.7	2903.9	2618.5	2389.8	2116.0	1652.3
42.5°	3077.0	3109.5	3105.3	3121.0	3114.7	3091.7	3003.5	2781.1	2532.5	2257.6	1748.8
45°	2889.2	2922.8	2914.4	2942.7	2955.3	2980.5	2993.0	2894.4	2673.1	2411.9	1856.9
47.5°	2588.1	2644.7	2657.3	2707.7	2760.1	2838.8	2898.6	2935.3	2804.2	2577.6	1974.4
50°	2143.3	2223.0	2248.2	2354.2	2497.9	2660.5	2757.0	2885.0	2896.5	2747.6	2101.3
52.5°	1534.8	1627.1	1666.0	1840.1	2135.9	2419.2	2593.3	2773.8	2932.2	2910.2	2238.8
55°	992.4	1071.1	1108.9	1272.5	1666.0	2110.8	2400.3	2630.1	2912.3	3059.1	2396.1
57.5°	611.6	656.7	681.9	822.5	1184.4	1715.3	2147.5	2497.9	2851.4	3188.2	2559.8
60°	412.3	438.5	451.1	517.2	804.7	1282.0	1800.2	2359.4	2771.7	3275.3	2708.7
62.5°	273.8	282.2	294.8	335.7	530.8	900.1	1382.7	2111.8	2711.9	3280.5	2818.9
65°	211.9	216.1	221.4	239.2	327.3	629.5	972.5	1711.1	2622.7	3169.3	2853.5
67.5°	166.8	171.0	177.3	186.7	237.1	427.0	662.0	1253.7	2440.2	2995.1	2796.9
70°	131.1	134.3	138.5	146.9	184.6	309.5	437.5	833.0	2071.9	2829.4	2618.5
72.5°	103.9	107.0	111.2	119.6	150.0	226.6	300.0	519.3	1597.8	2626.9	2275.5
75°	81.8	83.9	87.1	95.5	120.6	176.2	203.5	310.5	1085.8	2256.6	1773.0
77.5°	40.9	50.4	57.7	66.1	88.1	121.7	135.3	172.1	458.5	1158.2	845.6
80°	24.1	29.4	31.5	36.7	57.7	73.4	73.4	69.2	144.8	444.8	345.1
82.5°	13.6	18.9	19.9	21.0	34.6	42.0	33.6	25.2	29.4	149.0	100.7
85°	4.2	6.3	7.3	8.4	11.5	12.6	11.5	10.5	8.4	14.7	9.4
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	2.1	2.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836540

CATALOG NUMBER: ARCH3-40-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6
2.5°	679.8	666.2	639.9	615.8	592.7	575.9	560.2	545.5	535.0	526.6	525.6
5°	689.3	662.0	611.6	564.4	521.4	485.7	455.3	431.2	413.3	400.8	399.7
7.5°	701.8	659.9	583.3	513.0	449.0	397.6	353.5	321.0	297.9	288.5	281.2
10°	712.3	657.8	555.0	461.6	377.7	312.6	260.2	227.7	210.9	204.6	201.4
12.5°	730.2	659.9	530.8	414.4	315.8	239.2	199.3	181.5	174.1	168.9	167.9
15°	756.4	669.3	507.8	368.2	252.8	193.0	170.0	158.4	151.1	150.0	149.0
17.5°	782.6	677.7	486.8	321.0	209.8	167.9	152.1	142.7	137.4	136.4	136.4
20°	813.0	688.2	463.7	275.9	179.4	151.1	138.5	131.1	124.8	123.8	123.8
22.5°	848.7	702.9	441.7	236.0	159.5	138.5	128.0	119.6	114.4	113.3	113.3
25°	897.0	724.9	423.8	206.7	145.8	128.0	118.5	111.2	107.0	104.9	104.9
27.5°	950.5	755.3	411.2	188.8	136.4	119.6	110.2	103.9	99.7	97.6	97.6
30°	1010.3	788.9	402.8	181.5	131.1	112.3	103.9	97.6	92.3	91.3	91.3
32.5°	1076.4	827.7	397.6	182.5	130.1	107.0	97.6	91.3	87.1	85.0	85.0
35°	1149.8	870.7	394.5	188.8	132.2	102.8	92.3	86.0	81.8	79.7	79.7
37.5°	1231.6	921.1	394.5	195.1	137.4	101.8	87.1	80.8	77.6	75.5	75.5
40°	1308.2	974.6	398.7	202.5	142.7	101.8	82.9	77.6	73.4	71.3	71.3
42.5°	1368.0	1005.0	401.8	209.8	145.8	100.7	78.7	73.4	70.3	68.2	68.2
45°	1436.2	1037.5	395.5	213.0	145.8	98.6	75.5	70.3	67.1	65.0	65.0
47.5°	1511.7	1077.4	394.5	215.1	142.7	94.4	72.4	67.1	65.0	62.9	62.9
50°	1588.3	1121.5	396.6	214.0	138.5	88.1	68.2	65.0	61.9	59.8	59.8
52.5°	1675.4	1167.6	400.8	211.9	129.0	80.8	65.0	61.9	58.7	56.7	55.6
55°	1771.9	1218.0	409.1	207.7	116.4	73.4	61.9	58.7	54.6	52.5	51.4
57.5°	1883.1	1279.9	418.6	199.3	102.8	67.1	58.7	54.6	48.3	45.1	44.1
60°	1989.1	1350.2	429.1	179.4	89.2	60.8	55.6	49.3	43.0	40.9	39.9
62.5°	2088.7	1419.4	434.3	143.7	75.5	55.6	52.5	45.1	38.8	36.7	35.7
65°	2152.7	1494.9	422.8	97.6	61.9	51.4	48.3	42.0	35.7	32.5	32.5
67.5°	2156.9	1530.6	382.9	64.0	50.4	46.2	44.1	37.8	31.5	29.4	28.3
70°	2051.0	1477.1	292.7	50.4	42.0	39.9	39.9	33.6	27.3	25.2	24.1
72.5°	1807.6	1308.2	186.7	40.9	35.7	33.6	33.6	28.3	24.1	21.0	19.9
75°	1426.8	1009.2	99.7	33.6	29.4	28.3	26.2	23.1	19.9	17.8	16.8
77.5°	655.7	444.8	46.2	24.1	22.0	22.0	19.9	16.8	15.7	13.6	13.6
80°	259.1	151.1	23.1	15.7	14.7	14.7	14.7	11.5	11.5	9.4	8.4
82.5°	71.3	31.5	11.5	9.4	9.4	9.4	8.4	7.3	7.3	6.3	6.3
85°	7.3	5.2	5.2	5.2	5.2	4.2	4.2	3.1	2.1	2.1	2.1
87.5°	3.1	3.1	3.1	3.1	3.1	2.1	1.0	0.0	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)