

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: P799382

Luminaire Tested: **ARCH2-110-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799382
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: ARCH2-110-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 9114 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.5
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



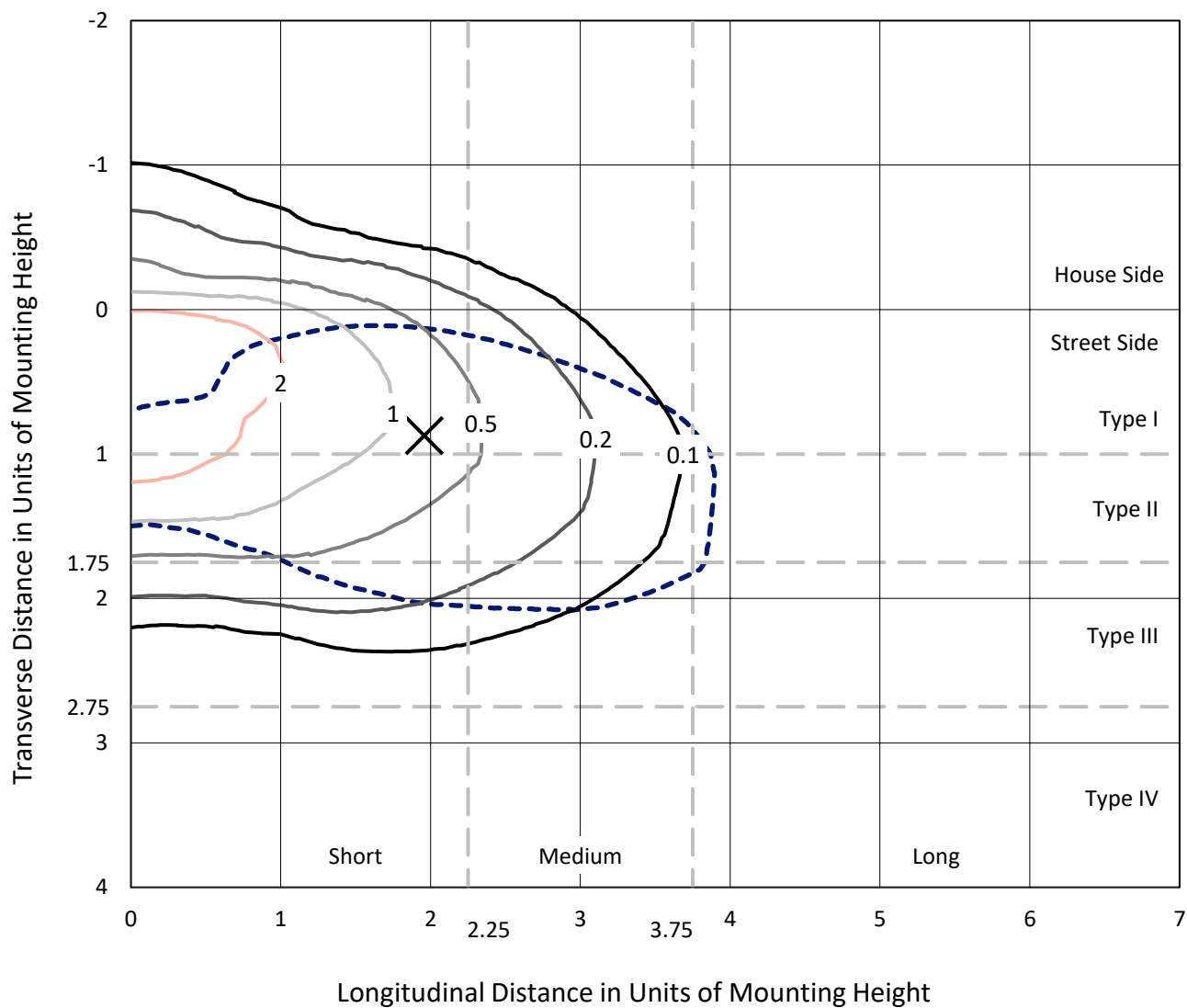
REPORT NUMBER: P799382

CATALOG NUMBER: ARCH2-110-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

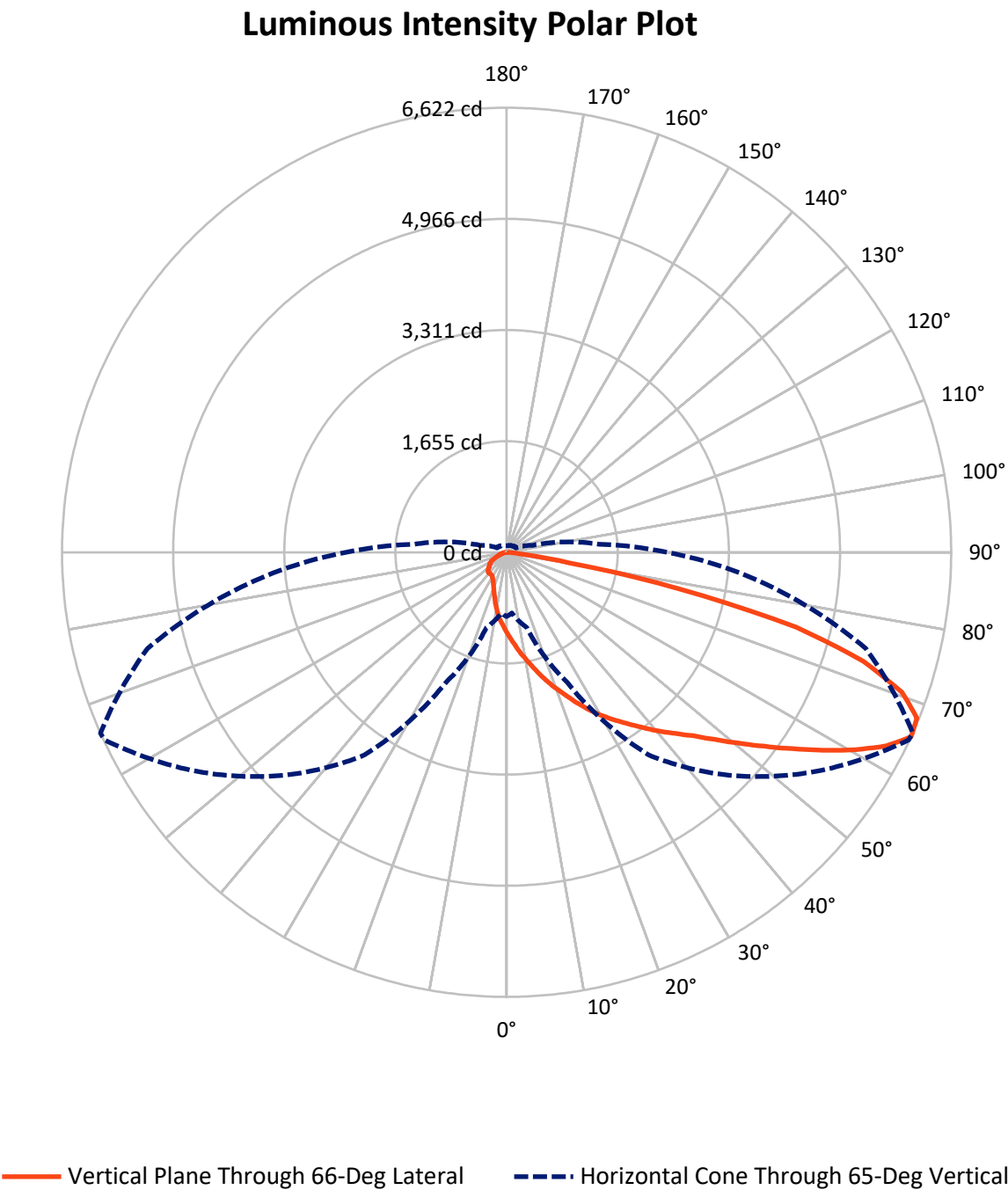
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type III - Short - N/A

REPORT NUMBER: P799382
CATALOG NUMBER: ARCH2-110-730-U-T3-HSS



REPORT NUMBER: P799382

CATALOG NUMBER: ARCH2-110-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	964.0	0.0	964.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	8150.0	0.0	8150.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	9114.0	0.0	9114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.3
10°-20°	388.0	4.3
20°-30°	702.0	7.7
30°-40°	1097.8	12.0
40°-50°	1665.4	18.3
50°-60°	2115.9	23.2
60°-70°	1977.1	21.7
70°-80°	982.6	10.8
80°-90°	66.0	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°	9114.0	100.0
0°-180°	9114.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799382

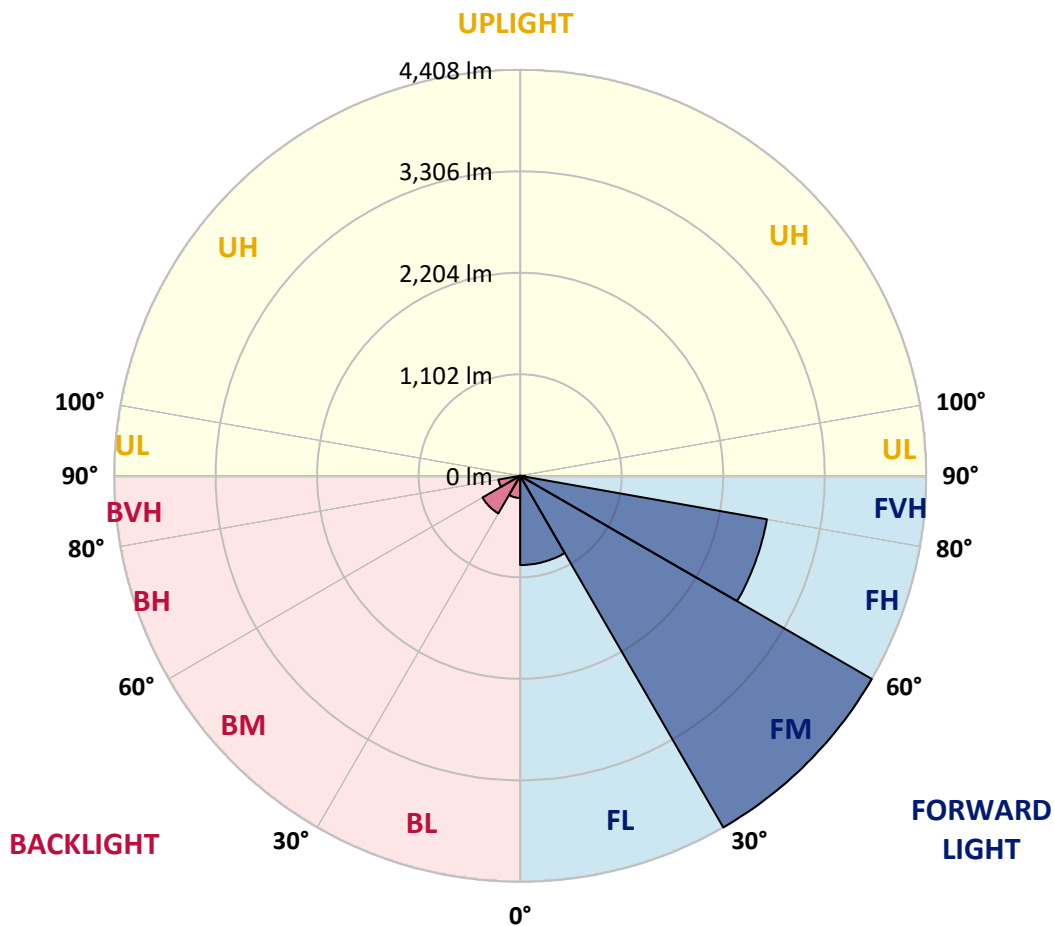
CATALOG NUMBER: ARCH2-110-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	968.4	10.6			
FM	(30°-60°)	4407.6	48.4			
FH	(60°-80°)	2719.7	29.8			G2/5000
FVH	(80°-90°)	54.3	0.6			G1/100
BL	(0°-30°)	240.8	2.6	B1/500		
BM	(30°-60°)	471.5	5.2	B1/1000		
BH	(60°-80°)	240.1	2.6	B1/500		G1/500
BVH	(80°-90°)	11.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P799382

CATALOG NUMBER: ARCH2-110-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2
2.5°	1408.8	1420.3	1426.0	1427.9	1384.0	1364.8	1345.7	1301.8	1292.2	1267.4	1234.9
5°	1657.3	1672.6	1668.8	1661.1	1607.6	1546.4	1496.7	1414.5	1401.2	1341.9	1269.3
7.5°	1902.0	1915.4	1911.5	1882.9	1823.6	1737.6	1655.4	1535.0	1515.9	1420.3	1303.7
10°	2106.5	2118.0	2116.1	2087.4	2016.7	1911.5	1812.1	1651.6	1628.6	1492.9	1332.4
12.5°	2274.7	2290.0	2288.1	2269.0	2205.9	2091.2	1978.5	1785.4	1756.7	1580.9	1372.5
15°	2406.6	2425.8	2425.8	2418.1	2374.1	2278.6	2150.5	1932.6	1898.2	1682.2	1422.2
17.5°	2486.9	2502.2	2515.6	2529.0	2498.4	2425.8	2309.2	2079.8	2043.4	1781.6	1473.8
20°	2529.0	2544.3	2553.8	2582.5	2588.2	2551.9	2460.2	2225.0	2186.8	1894.3	1533.1
22.5°	2597.8	2611.2	2613.1	2637.9	2649.4	2659.0	2601.6	2368.4	2337.8	2018.6	1600.0
25°	2712.5	2727.8	2722.0	2733.5	2735.4	2746.9	2741.2	2532.8	2502.2	2160.1	1680.3
27.5°	2859.7	2878.8	2875.0	2863.5	2846.3	2836.7	2861.6	2699.1	2670.4	2301.5	1762.4
30°	3018.3	3041.3	3035.5	3012.6	2966.7	2926.6	2961.0	2855.9	2829.1	2446.8	1854.2
32.5°	3178.9	3205.7	3203.8	3165.5	3087.2	3018.3	3069.9	3003.0	2983.9	2603.5	1953.6
35°	3284.0	3318.5	3314.6	3291.7	3190.4	3131.1	3194.2	3154.1	3140.7	2794.7	2097.0
37.5°	3454.2	3490.5	3458.0	3400.6	3284.0	3253.5	3329.9	3324.2	3314.6	2997.3	2248.0
40°	3867.1	3920.6	3834.6	3599.4	3408.3	3381.5	3490.5	3513.4	3503.9	3198.0	2383.7
42.5°	4299.1	4379.4	4245.6	3920.6	3633.9	3536.4	3666.4	3698.8	3687.4	3370.1	2506.0
45°	4561.0	4595.4	4461.6	4209.2	4033.4	3723.7	3853.7	3907.2	3897.6	3576.5	2662.8
47.5°	4775.1	4761.7	4608.7	4438.6	4471.1	3987.5	4065.9	4171.0	4163.4	3804.0	2834.8
50°	4820.9	4790.3	4729.2	4622.1	4708.1	4255.1	4289.5	4471.1	4463.5	4056.3	3008.8
52.5°	4497.9	4457.7	4624.0	4713.9	4685.2	4450.1	4536.1	4799.9	4796.1	4329.7	3175.1
55°	3691.2	3658.7	4106.0	4570.5	4660.4	4587.7	4809.5	5142.1	5163.1	4620.2	3326.1
57.5°	2903.6	2869.2	3308.9	4211.1	4568.6	4713.9	5128.7	5533.9	5560.7	4935.6	3469.5
60°	2314.9	2263.3	2599.7	3645.3	4396.6	4811.4	5436.4	5964.0	5967.9	5224.3	3557.4
62.5°	1573.2	1515.9	1888.6	2928.5	4107.9	4826.7	5673.5	6334.9	6350.2	5440.3	3572.7
65°	955.8	908.0	1160.3	2139.0	3681.6	4696.7	5677.3	6608.2	6621.6	5539.7	3480.9
67.5°	554.3	535.2	663.3	1332.4	2974.4	4346.9	5438.4	6566.2	6591.0	5497.6	3272.6
70°	323.1	321.1	368.9	659.5	2098.9	3653.0	4905.0	6212.5	6248.9	5277.8	2953.3
72.5°	237.0	240.9	260.0	353.6	1215.7	2630.3	4153.8	5501.4	5556.9	4847.7	2498.4
75°	187.3	189.2	206.4	240.9	638.5	1487.2	3112.0	4415.7	4459.6	4081.2	1951.7
77.5°	139.5	143.4	156.7	170.1	296.3	682.4	1751.0	2720.1	2647.5	2240.3	942.4
80°	101.3	110.9	116.6	122.3	156.7	263.8	525.7	948.1	940.5	978.7	445.4
82.5°	65.0	72.6	78.4	82.2	93.7	126.2	156.7	212.2	229.4	380.4	177.8
85°	28.7	32.5	36.3	44.0	40.1	44.0	65.0	42.1	36.3	57.3	32.5
87.5°	0.0	0.0	5.7	9.6	7.6	3.8	11.5	7.6	5.7	5.7	5.7
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: P799382

CATALOG NUMBER: ARCH2-110-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2
2.5°	1217.7	1196.6	1152.7	1110.6	1085.8	1053.3	1024.6	997.8	995.9	988.3	974.9
5°	1232.9	1192.8	1110.6	1032.2	973.0	909.9	856.4	814.3	799.0	787.6	772.3
7.5°	1248.2	1185.2	1062.8	948.1	854.5	766.5	703.5	646.1	628.9	613.6	604.0
10°	1254.0	1171.8	1007.4	854.5	732.1	638.5	571.6	529.5	514.2	506.6	500.8
12.5°	1271.2	1164.1	955.8	766.5	625.1	539.1	491.3	466.4	460.7	454.9	449.2
15°	1294.1	1164.1	904.2	680.5	541.0	472.2	443.5	426.3	422.5	420.5	416.7
17.5°	1319.0	1164.1	854.5	607.9	479.8	428.2	407.2	397.6	395.7	393.8	391.9
20°	1353.4	1166.0	800.9	544.8	435.8	395.7	378.5	367.0	365.1	363.2	363.2
22.5°	1387.8	1169.9	749.3	497.0	407.2	370.8	349.8	338.3	334.5	334.5	334.5
25°	1431.8	1181.3	701.5	456.9	382.3	347.9	321.1	311.6	309.7	309.7	307.8
27.5°	1483.4	1194.7	659.5	426.3	357.5	321.1	294.4	284.8	281.0	281.0	279.1
30°	1538.8	1208.1	625.1	403.3	332.6	294.4	269.5	258.1	254.2	256.1	254.2
32.5°	1600.0	1227.2	598.3	388.0	309.7	271.4	248.5	235.1	233.2	233.2	231.3
35°	1703.2	1280.7	594.5	380.4	290.6	254.2	231.3	217.9	216.0	216.0	214.1
37.5°	1814.1	1341.9	611.7	376.6	275.3	238.9	217.9	204.5	202.6	202.6	202.6
40°	1907.7	1387.8	630.8	376.6	265.7	225.6	206.4	195.0	195.0	195.0	195.0
42.5°	1970.8	1391.6	627.0	376.6	258.1	216.0	198.8	187.3	187.3	189.2	187.3
45°	2064.5	1410.7	611.7	370.8	252.3	208.4	191.2	181.6	179.7	181.6	181.6
47.5°	2175.3	1445.1	596.4	347.9	250.4	200.7	185.4	174.0	172.0	174.0	172.0
50°	2280.5	1475.7	588.8	317.3	246.6	193.1	177.8	166.3	164.4	166.3	164.4
52.5°	2368.4	1489.1	575.4	296.3	237.0	185.4	170.1	158.7	154.8	156.7	156.7
55°	2439.1	1485.3	556.3	279.1	219.8	177.8	160.6	151.0	145.3	145.3	143.4
57.5°	2504.1	1487.2	539.1	261.9	200.7	166.3	152.9	141.5	133.8	131.9	130.0
60°	2529.0	1477.6	508.5	238.9	181.6	156.7	143.4	130.0	122.3	120.4	118.5
62.5°	2494.6	1443.2	468.3	198.8	164.4	145.3	133.8	120.4	112.8	110.9	109.0
65°	2397.1	1378.2	407.2	156.7	149.1	131.9	122.3	112.8	103.2	99.4	97.5
67.5°	2230.8	1284.6	330.7	126.2	131.9	120.4	114.7	103.2	91.8	87.9	86.0
70°	1993.7	1160.3	248.5	107.0	116.6	107.0	103.2	91.8	82.2	78.4	76.5
72.5°	1661.1	959.6	174.0	91.8	101.3	93.7	89.8	82.2	72.6	66.9	66.9
75°	1255.9	688.2	114.7	78.4	84.1	80.3	74.6	68.8	63.1	59.3	57.3
77.5°	541.0	267.6	70.7	59.3	68.8	66.9	59.3	55.4	53.5	49.7	49.7
80°	233.2	109.0	44.0	44.0	49.7	47.8	45.9	42.1	42.1	40.1	38.2
82.5°	86.0	44.0	26.8	32.5	36.3	32.5	32.5	32.5	32.5	30.6	30.6
85°	21.0	13.4	13.4	19.1	21.0	19.1	21.0	19.1	19.1	19.1	17.2
87.5°	5.7	5.7	7.6	7.6	7.6	7.6	7.6	5.7	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)