

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: P836031

Luminaire Tested: **ARCH3-130-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12880 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132.6
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



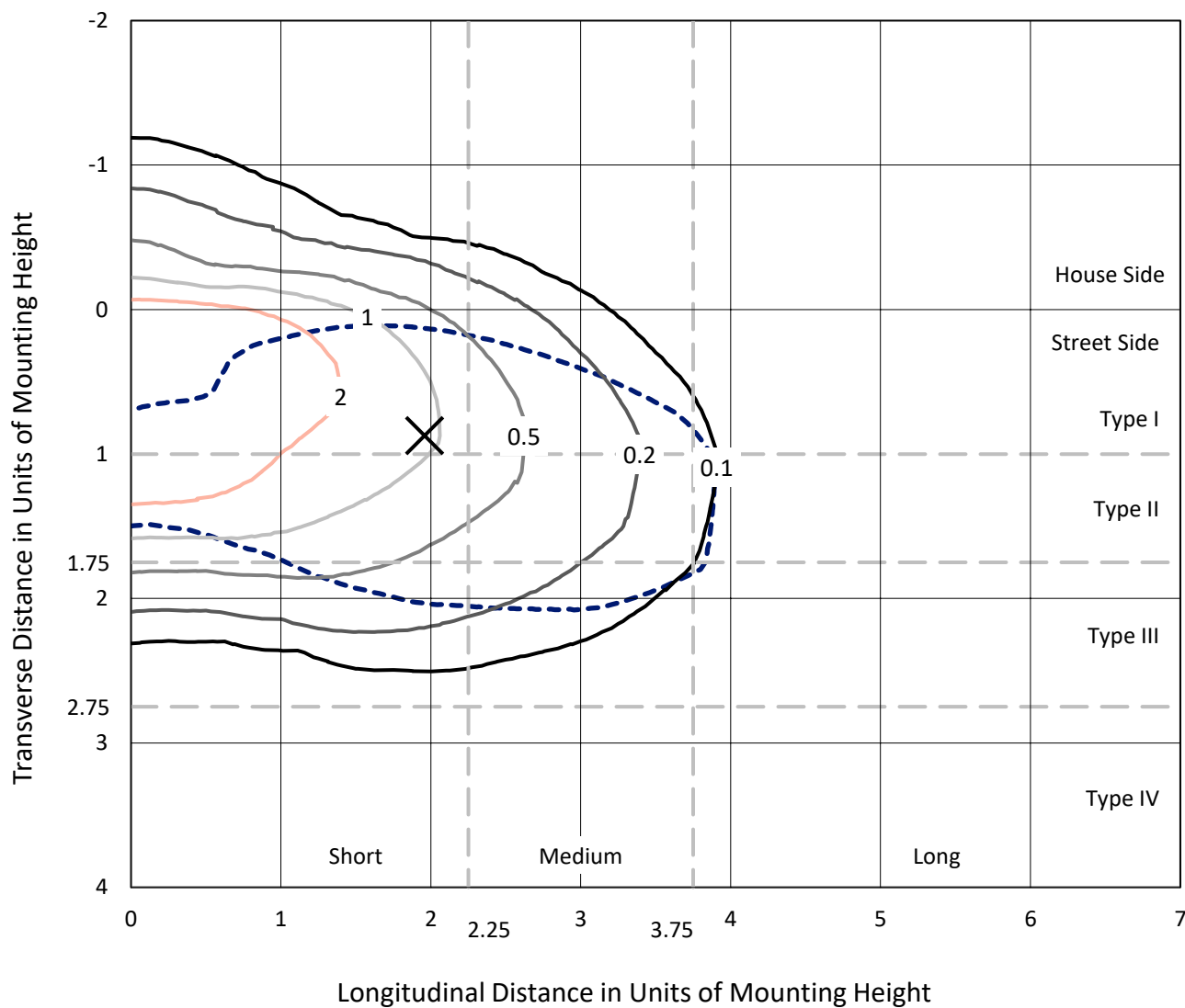
REPORT NUMBER: P836031

CATALOG NUMBER: ARCH3-130-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

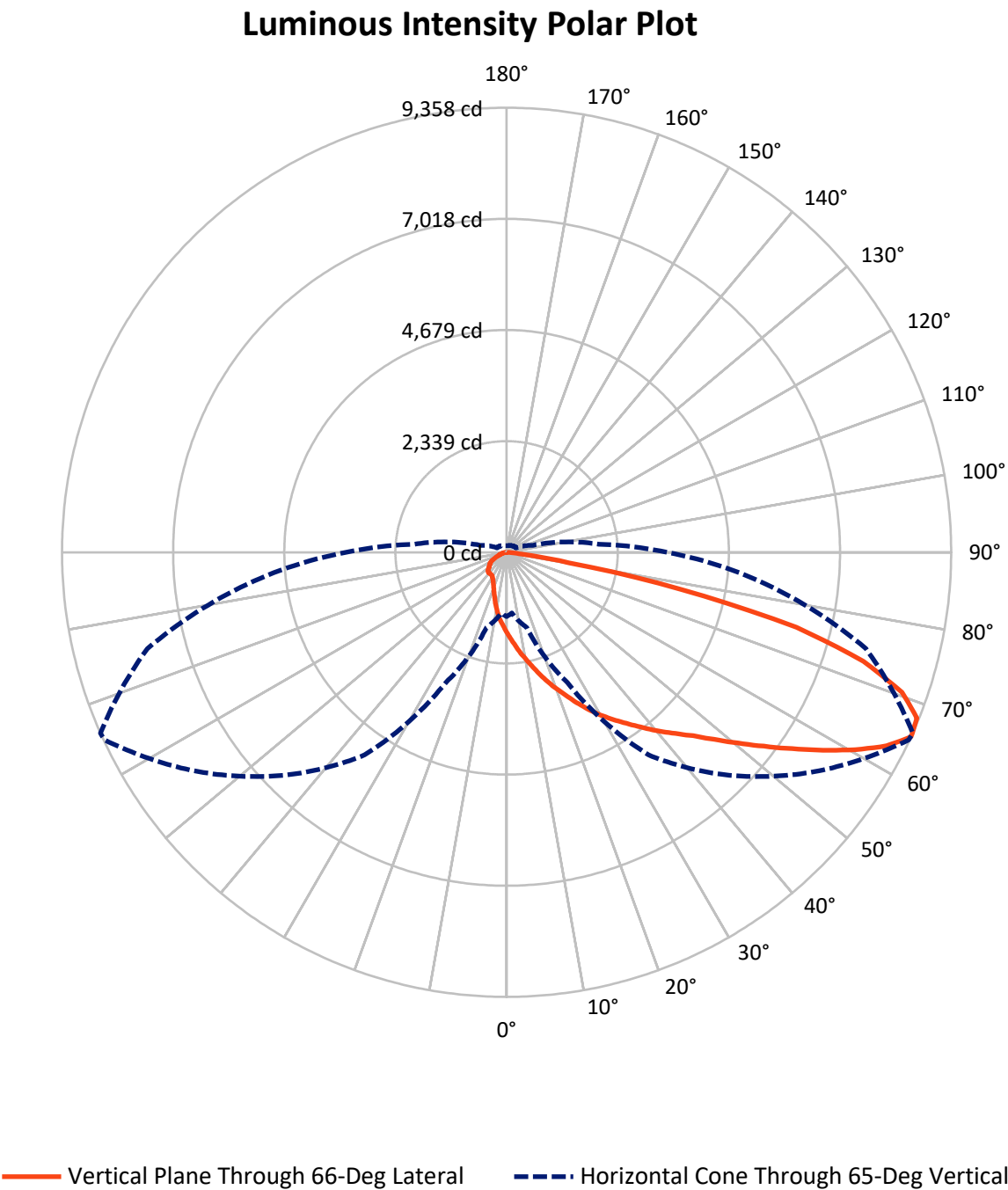
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Short - N/A

REPORT NUMBER: P836031
CATALOG NUMBER: ARCH3-130-727-U-T3-HSS



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CATALOG NUMBER: ARCH3-130-727-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1362.3	0.0	1362.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	11517.6	0.0	11517.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	12880.0	0.0	12880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	1.3
10°-20°	548.4	4.3
20°-30°	992.1	7.7
30°-40°	1551.5	12.0
40°-50°	2353.5	18.3
50°-60°	2990.2	23.2
60°-70°	2794.1	21.7
70°-80°	1388.6	10.8
80°-90°	93.3	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°	12880.0	100.0
0°-180°	12880.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836031

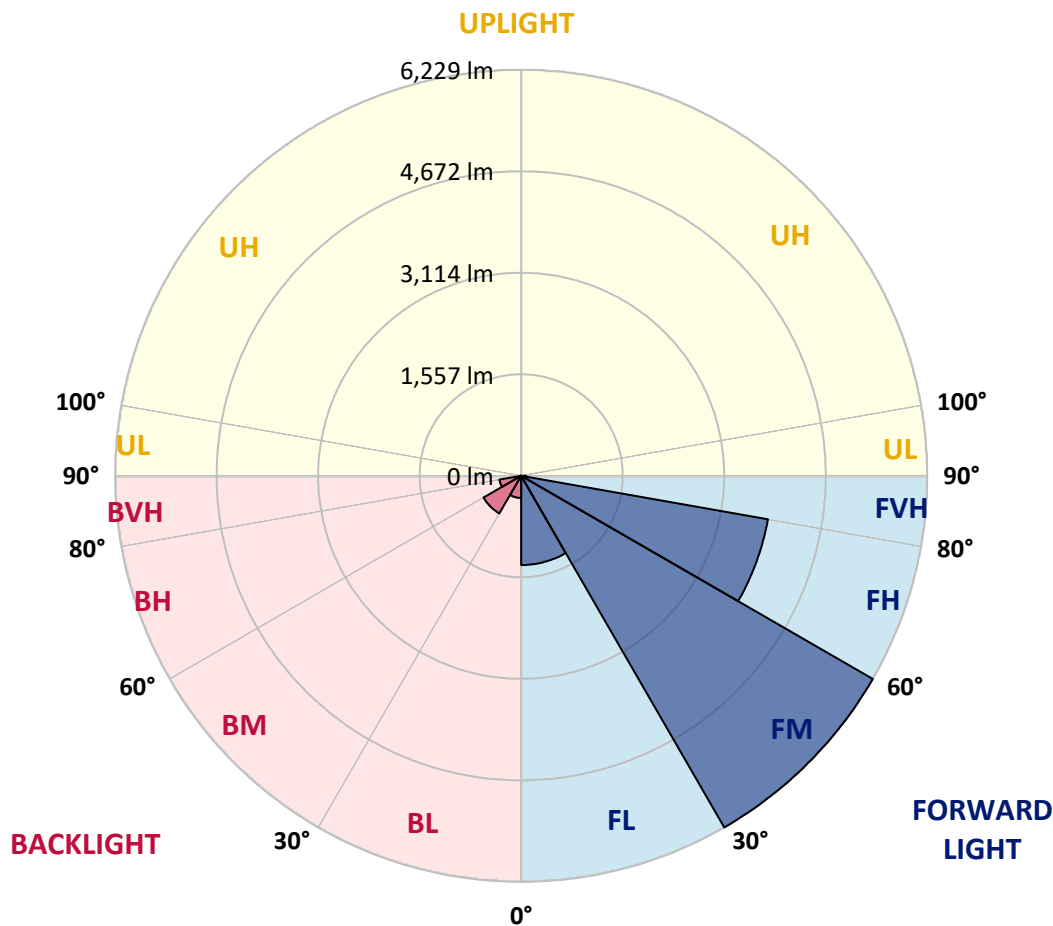
CATALOG NUMBER: ARCH3-130-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1368.5	10.6			
FM	(30°-60°)	6228.9	48.4			
FH	(60°-80°)	3843.4	29.8			G2/5000
FVH	(80°-90°)	76.8	0.6			G1/100
BL	(0°-30°)	340.2	2.6	B1/500		
BM	(30°-60°)	666.3	5.2	B1/1000		
BH	(60°-80°)	339.3	2.6	B1/500		G1/500
BVH	(80°-90°)	16.5	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: P836031

CATALOG NUMBER: ARCH3-130-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6
2.5°	1990.9	2007.2	2015.3	2018.0	1955.8	1928.8	1901.8	1839.7	1826.2	1791.0	1745.1
5°	2342.1	2363.7	2358.3	2347.5	2271.9	2185.5	2115.2	1999.1	1980.1	1896.4	1793.7
7.5°	2687.9	2706.8	2701.4	2660.9	2577.2	2455.6	2339.4	2169.2	2142.2	2007.2	1842.4
10°	2977.0	2993.2	2990.5	2950.0	2850.0	2701.4	2560.9	2334.0	2301.6	2109.8	1882.9
12.5°	3214.7	3236.3	3233.6	3206.6	3117.4	2955.4	2796.0	2523.1	2482.6	2234.1	1939.6
15°	3401.1	3428.1	3428.1	3417.3	3355.2	3220.1	3039.1	2731.1	2682.5	2377.3	2009.9
17.5°	3514.6	3536.2	3555.1	3574.0	3530.8	3428.1	3263.3	2939.1	2887.8	2517.7	2082.8
20°	3574.0	3595.6	3609.1	3649.6	3657.7	3606.4	3476.7	3144.5	3090.4	2677.1	2166.5
22.5°	3671.2	3690.1	3692.8	3728.0	3744.2	3757.7	3676.6	3347.1	3303.8	2852.7	2261.1
25°	3833.3	3854.9	3846.8	3863.0	3865.7	3881.9	3873.8	3579.4	3536.2	3052.6	2374.6
27.5°	4041.3	4068.3	4062.9	4046.7	4022.4	4008.9	4044.0	3814.4	3773.9	3252.5	2490.7
30°	4265.5	4298.0	4289.9	4257.4	4192.6	4135.9	4184.5	4035.9	3998.1	3457.8	2620.4
32.5°	4492.5	4530.3	4527.6	4473.6	4362.8	4265.5	4338.5	4243.9	4216.9	3679.3	2760.9
35°	4641.0	4689.7	4684.3	4651.8	4508.7	4424.9	4514.1	4457.3	4438.4	3949.5	2963.5
37.5°	4881.5	4932.8	4886.9	4805.8	4641.0	4597.8	4705.9	4697.8	4684.3	4235.8	3176.9
40°	5465.0	5540.6	5419.1	5086.8	4816.6	4778.8	4932.8	4965.2	4951.7	4519.5	3368.7
42.5°	6075.5	6189.0	5999.9	5540.6	5135.4	4997.6	5181.3	5227.3	5211.0	4762.6	3541.6
45°	6445.6	6494.2	6305.1	5948.5	5700.0	5262.4	5446.1	5521.7	5508.2	5054.4	3763.1
47.5°	6748.2	6729.2	6513.1	6272.7	6318.6	5635.2	5745.9	5894.5	5883.7	5375.8	4006.2
50°	6813.0	6769.8	6683.3	6532.0	6653.6	6013.4	6062.0	6318.6	6307.8	5732.4	4252.0
52.5°	6356.4	6299.7	6534.7	6661.7	6621.2	6288.9	6410.5	6783.3	6777.9	6118.7	4487.1
55°	5216.4	5170.5	5802.7	6459.1	6586.1	6483.4	6796.8	7266.8	7296.5	6529.3	4700.5
57.5°	4103.5	4054.8	4676.2	5951.2	6456.4	6661.7	7247.9	7820.6	7858.4	6975.1	4903.1
60°	3271.4	3198.5	3673.9	5151.6	6213.3	6799.5	7682.8	8428.4	8433.8	7383.0	5027.3
62.5°	2223.3	2142.2	2669.0	4138.6	5805.4	6821.1	8017.8	8952.5	8974.1	7688.2	5049.0
65°	1350.7	1283.2	1639.8	3022.9	5202.9	6637.4	8023.2	9338.8	9357.7	7828.7	4919.3
67.5°	783.4	756.4	937.4	1882.9	4203.4	6143.0	7685.5	9279.4	9314.5	7769.3	4624.8
70°	456.5	453.8	521.4	932.0	2966.2	5162.4	6931.8	8779.6	8830.9	7458.6	4173.7
72.5°	335.0	340.4	367.4	499.8	1718.1	3717.2	5870.2	7774.7	7853.0	6850.8	3530.8
75°	264.7	267.4	291.8	340.4	902.3	2101.7	4397.9	6240.3	6302.4	5767.5	2758.2
77.5°	197.2	202.6	221.5	240.4	418.7	964.4	2474.5	3844.1	3741.5	3166.1	1331.8
80°	143.2	156.7	164.8	172.9	221.5	372.8	742.9	1339.9	1329.1	1383.1	629.4
82.5°	91.8	102.7	110.8	116.2	132.4	178.3	221.5	299.9	324.2	537.6	251.2
85°	40.5	45.9	51.3	62.1	56.7	62.1	91.8	59.4	51.3	81.0	45.9
87.5°	0.0	0.0	8.1	13.5	10.8	5.4	16.2	10.8	8.1	8.1	8.1
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: P836031

CATALOG NUMBER: ARCH3-130-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6	1704.6
2.5°	1720.8	1691.1	1629.0	1569.5	1534.4	1488.5	1448.0	1410.1	1407.4	1396.6	1377.7
5°	1742.4	1685.7	1569.5	1458.8	1375.0	1285.9	1210.2	1150.8	1129.2	1113.0	1091.4
7.5°	1764.0	1674.9	1502.0	1339.9	1207.5	1083.3	994.1	913.1	888.8	867.2	853.6
10°	1772.1	1656.0	1423.6	1207.5	1034.6	902.3	807.7	748.3	726.7	715.9	707.8
12.5°	1796.4	1645.2	1350.7	1083.3	883.4	761.8	694.3	659.1	651.0	642.9	634.8
15°	1828.9	1645.2	1277.8	961.7	764.5	667.3	626.7	602.4	597.0	594.3	588.9
17.5°	1864.0	1645.2	1207.5	859.1	678.1	605.1	575.4	561.9	559.2	556.5	553.8
20°	1912.6	1647.9	1131.9	769.9	615.9	559.2	534.9	518.7	516.0	513.3	513.3
22.5°	1961.2	1653.3	1059.0	702.4	575.4	524.1	494.4	478.2	472.7	472.7	472.7
25°	2023.4	1669.5	991.4	645.6	540.3	491.7	453.8	440.3	437.6	437.6	434.9
27.5°	2096.3	1688.4	932.0	602.4	505.2	453.8	416.0	402.5	397.1	397.1	394.4
30°	2174.6	1707.3	883.4	570.0	470.0	416.0	380.9	364.7	359.3	362.0	359.3
32.5°	2261.1	1734.3	845.5	548.4	437.6	383.6	351.2	332.3	329.6	329.6	326.9
35°	2407.0	1810.0	840.1	537.6	410.6	359.3	326.9	308.0	305.3	305.3	302.6
37.5°	2563.6	1896.4	864.5	532.2	389.0	337.7	308.0	289.1	286.4	286.4	286.4
40°	2696.0	1961.2	891.5	532.2	375.5	318.8	291.8	275.5	275.5	275.5	275.5
42.5°	2785.2	1966.6	886.1	532.2	364.7	305.3	280.9	264.7	264.7	267.4	264.7
45°	2917.5	1993.6	864.5	524.1	356.6	294.5	270.1	256.6	253.9	256.6	256.6
47.5°	3074.2	2042.3	842.8	491.7	353.9	283.6	262.0	245.8	243.1	245.8	243.1
50°	3222.8	2085.5	832.0	448.4	348.5	272.8	251.2	235.0	232.3	235.0	232.3
52.5°	3347.1	2104.4	813.1	418.7	335.0	262.0	240.4	224.2	218.8	221.5	221.5
55°	3447.0	2099.0	786.1	394.4	310.7	251.2	226.9	213.4	205.3	205.3	202.6
57.5°	3538.9	2101.7	761.8	370.1	283.6	235.0	216.1	199.9	189.1	186.4	183.7
60°	3574.0	2088.2	718.6	337.7	256.6	221.5	202.6	183.7	172.9	170.2	167.5
62.5°	3525.4	2039.6	661.8	280.9	232.3	205.3	189.1	170.2	159.4	156.7	154.0
65°	3387.6	1947.7	575.4	221.5	210.7	186.4	172.9	159.4	145.9	140.5	137.8
67.5°	3152.6	1815.4	467.3	178.3	186.4	170.2	162.1	145.9	129.7	124.3	121.6
70°	2817.6	1639.8	351.2	151.3	164.8	151.3	145.9	129.7	116.2	110.8	108.1
72.5°	2347.5	1356.1	245.8	129.7	143.2	132.4	127.0	116.2	102.7	94.5	94.5
75°	1774.8	972.5	162.1	110.8	118.9	113.5	105.4	97.3	89.1	83.7	81.0
77.5°	764.5	378.2	100.0	83.7	97.3	94.5	83.7	78.3	75.6	70.2	70.2
80°	329.6	154.0	62.1	62.1	70.2	67.5	64.8	59.4	59.4	56.7	54.0
82.5°	121.6	62.1	37.8	45.9	51.3	45.9	45.9	45.9	45.9	43.2	43.2
85°	29.7	18.9	18.9	27.0	29.7	27.0	29.7	27.0	27.0	27.0	24.3
87.5°	8.1	8.1	10.8	10.8	10.8	10.8	10.8	8.1	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)