

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: P842751

Luminaire Tested: **ARCH4-90-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

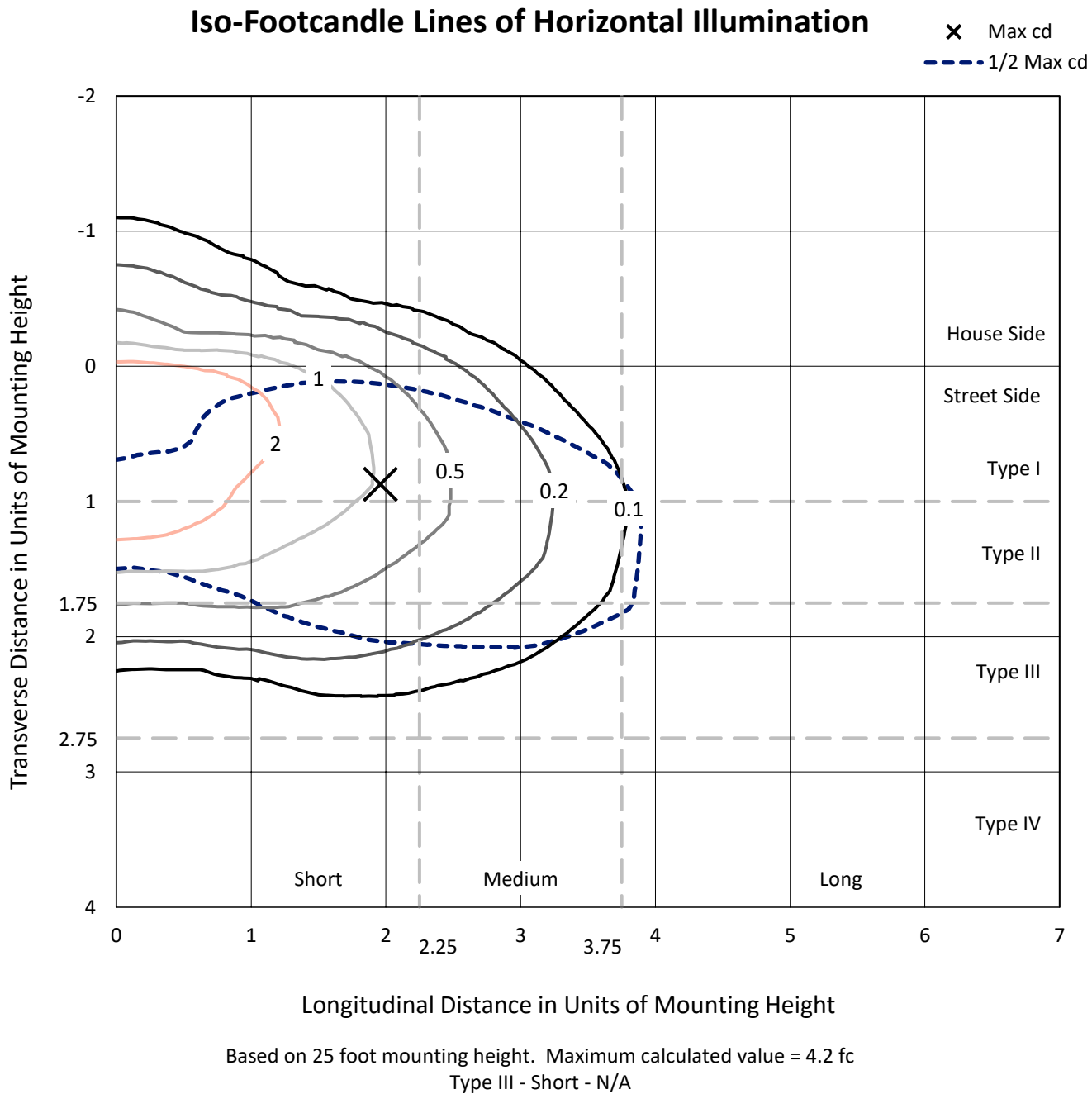
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10853 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.1
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



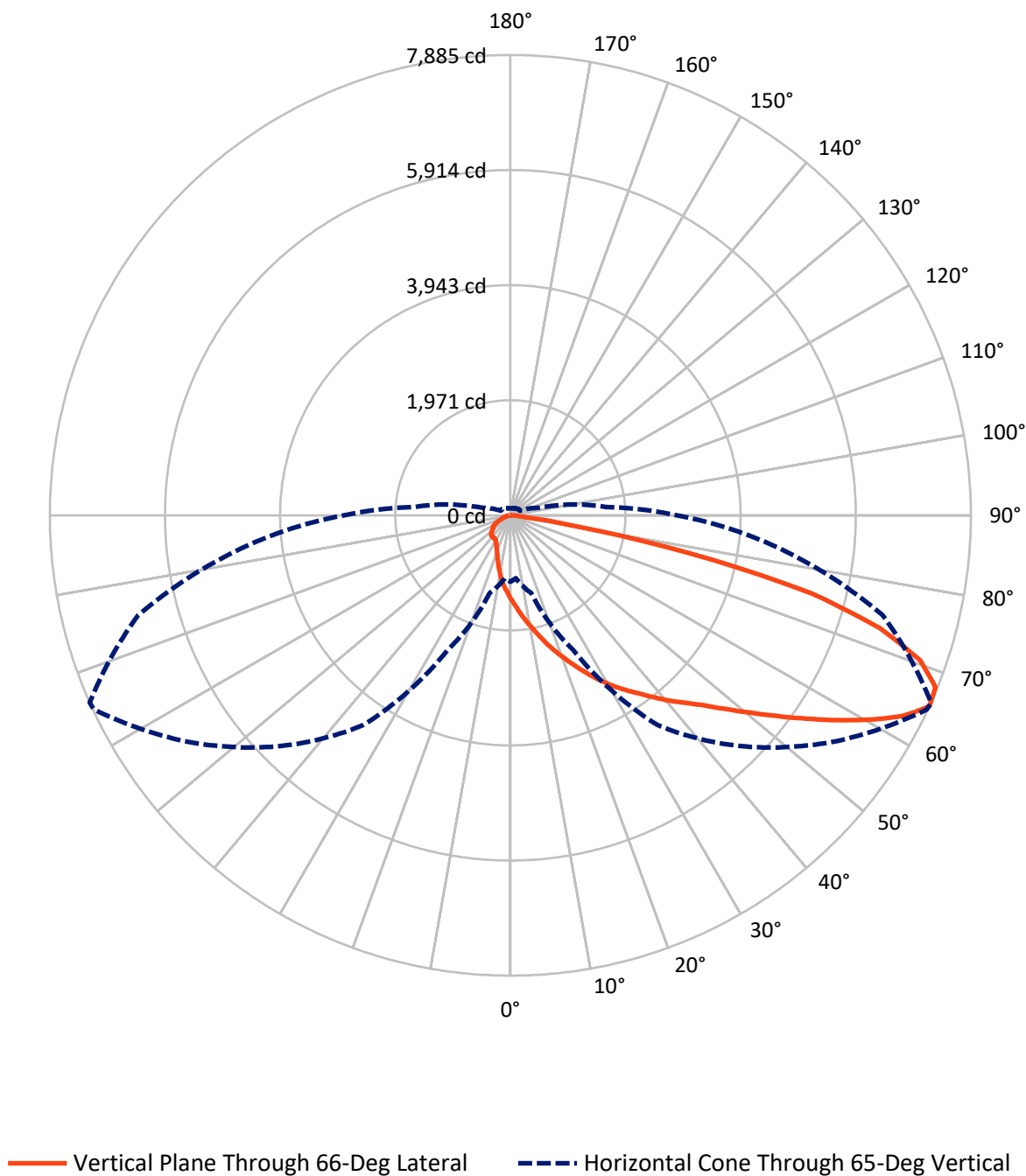
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1148.0	0.0	1148.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	9705.1	0.0	9705.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	10853.0	0.0	10853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.3
10°-20°	462.1	4.3
20°-30°	836.0	7.7
30°-40°	1307.3	12.0
40°-50°	1983.1	18.3
50°-60°	2519.7	23.2
60°-70°	2354.4	21.7
70°-80°	1170.1	10.8
80°-90°	78.6	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°	10853.0	100.0
0°-180°	10853.0	100.0

Coefficient of Utilization



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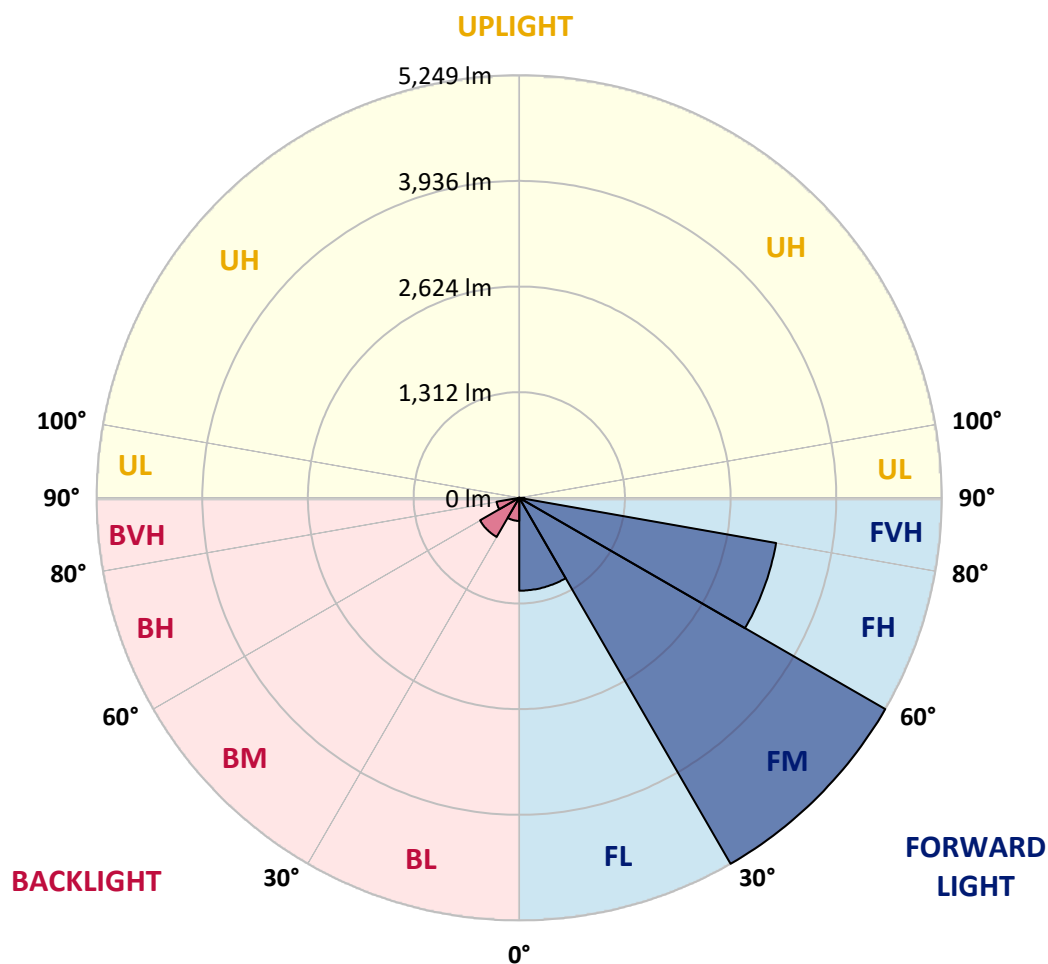
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1153.1	10.6			
FM	(30°-60°)	5248.6	48.4			
FH	(60°-80°)	3238.6	29.8			G2/5000
FVH	(80°-90°)	64.7	0.6			G1/100
BL	(0°-30°)	286.7	2.6	B1/500		
BM	(30°-60°)	561.5	5.2	B1/1000		
BH	(60°-80°)	285.9	2.6	B1/500		G1/500
BVH	(80°-90°)	13.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3
2.5°	1677.6	1691.3	1698.1	1700.4	1648.0	1625.3	1602.5	1550.1	1538.8	1509.2	1470.5
5°	1973.5	1991.7	1987.2	1978.1	1914.4	1841.5	1782.3	1684.4	1668.5	1598.0	1511.5
7.5°	2264.9	2280.8	2276.3	2242.1	2171.6	2069.1	1971.3	1827.9	1805.1	1691.3	1552.4
10°	2508.5	2522.1	2519.8	2485.7	2401.5	2276.3	2157.9	1966.7	1939.4	1777.8	1586.6
12.5°	2708.8	2727.0	2724.7	2701.9	2626.8	2490.3	2356.0	2126.0	2091.9	1882.5	1634.4
15°	2865.8	2888.6	2888.6	2879.5	2827.1	2713.3	2560.8	2301.3	2260.3	2003.1	1693.6
17.5°	2961.4	2979.7	2995.6	3011.5	2975.1	2888.6	2749.8	2476.6	2433.3	2121.5	1755.0
20°	3011.5	3029.7	3041.1	3075.3	3082.1	3038.8	2929.6	2649.6	2604.1	2255.8	1825.6
22.5°	3093.5	3109.4	3111.7	3141.3	3154.9	3166.3	3098.0	2820.3	2783.9	2403.8	1905.2
25°	3230.0	3248.3	3241.4	3255.1	3257.4	3271.0	3264.2	3016.1	2979.7	2572.2	2000.9
27.5°	3405.3	3428.1	3423.5	3409.9	3389.4	3378.0	3407.6	3214.1	3180.0	2740.6	2098.7
30°	3594.3	3621.6	3614.7	3587.4	3532.8	3485.0	3526.0	3400.8	3368.9	2913.6	2208.0
32.5°	3785.5	3817.3	3815.1	3769.5	3676.2	3594.3	3655.7	3576.0	3553.3	3100.3	2326.4
35°	3910.7	3951.6	3947.1	3919.8	3799.1	3728.6	3803.7	3755.9	3739.9	3327.9	2497.1
37.5°	4113.2	4156.5	4117.8	4049.5	3910.7	3874.2	3965.3	3958.5	3947.1	3569.2	2676.9
40°	4604.9	4668.7	4566.2	4286.2	4058.6	4026.7	4156.5	4183.8	4172.4	3808.2	2838.5
42.5°	5119.4	5215.0	5055.6	4668.7	4327.2	4211.1	4365.9	4404.6	4391.0	4013.1	2984.2
45°	5431.2	5472.2	5312.8	5012.4	4803.0	4434.2	4589.0	4652.7	4641.3	4258.9	3170.9
47.5°	5686.2	5670.2	5488.1	5285.5	5324.2	4748.3	4841.7	4966.9	4957.7	4529.8	3375.7
50°	5740.8	5704.4	5631.5	5504.1	5606.5	5067.0	5108.0	5324.2	5315.1	4830.3	3582.9
52.5°	5356.1	5308.3	5506.3	5613.3	5579.2	5299.2	5401.6	5715.7	5711.2	5155.8	3780.9
55°	4395.5	4356.8	4889.5	5442.6	5549.6	5463.1	5727.1	6123.2	6148.2	5501.8	3960.7
57.5°	3457.7	3416.7	3940.2	5014.7	5440.3	5613.3	6107.3	6589.8	6621.7	5877.4	4131.5
60°	2756.6	2695.1	3095.7	4340.9	5235.5	5729.4	6473.8	7102.0	7106.6	6221.1	4236.2
62.5°	1873.4	1805.1	2249.0	3487.3	4891.7	5747.6	6756.0	7543.6	7561.8	6478.3	4254.4
65°	1138.1	1081.2	1381.7	2547.2	4384.1	5592.8	6760.6	7869.1	7885.0	6596.7	4145.1
67.5°	660.1	637.4	789.9	1586.6	3541.9	5176.3	6476.0	7819.0	7848.6	6546.6	3897.0
70°	384.7	382.4	439.3	785.3	2499.4	4350.0	5840.9	7397.9	7441.2	6284.8	3516.9
72.5°	282.3	286.8	309.6	421.1	1447.7	3132.2	4946.4	6551.1	6617.2	5772.7	2975.1
75°	223.1	225.4	245.8	286.8	760.3	1770.9	3705.8	5258.2	5310.6	4859.9	2324.1
77.5°	166.2	170.7	186.7	202.6	352.8	812.6	2085.1	3239.2	3152.7	2667.8	1122.2
80°	120.6	132.0	138.9	145.7	186.7	314.1	626.0	1129.0	1119.9	1165.5	530.4
82.5°	77.4	86.5	93.3	97.9	111.5	150.2	186.7	252.7	273.2	453.0	211.7
85°	34.1	38.7	43.2	52.4	47.8	52.4	77.4	50.1	43.2	68.3	38.7
87.5°	0.0	0.0	6.8	11.4	9.1	4.6	13.7	9.1	6.8	6.8	6.8
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°	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3	1436.3
2.5°	1450.0	1425.0	1372.6	1322.5	1292.9	1254.2	1220.1	1188.2	1185.9	1176.8	1160.9
5°	1468.2	1420.4	1322.5	1229.2	1158.6	1083.5	1019.8	969.7	951.5	937.8	919.6
7.5°	1486.4	1411.3	1265.6	1129.0	1017.5	912.8	837.7	769.4	748.9	730.7	719.3
10°	1493.2	1395.4	1199.6	1017.5	871.8	760.3	680.6	630.5	612.3	603.2	596.4
12.5°	1513.7	1386.3	1138.1	912.8	744.3	641.9	585.0	555.4	548.6	541.8	534.9
15°	1541.0	1386.3	1076.7	810.4	644.2	562.2	528.1	507.6	503.1	500.8	496.2
17.5°	1570.6	1386.3	1017.5	723.9	571.3	509.9	484.8	473.5	471.2	468.9	466.6
20°	1611.6	1388.5	953.8	648.7	519.0	471.2	450.7	437.0	434.8	432.5	432.5
22.5°	1652.6	1393.1	892.3	591.8	484.8	441.6	416.6	402.9	398.3	398.3	398.3
25°	1704.9	1406.7	835.4	544.0	455.3	414.3	382.4	371.0	368.8	368.8	366.5
27.5°	1766.4	1422.7	785.3	507.6	425.7	382.4	350.5	339.2	334.6	334.6	332.3
30°	1832.4	1438.6	744.3	480.3	396.1	350.5	321.0	307.3	302.7	305.0	302.7
32.5°	1905.2	1461.4	712.5	462.1	368.8	323.2	295.9	280.0	277.7	277.7	275.4
35°	2028.2	1525.1	707.9	453.0	346.0	302.7	275.4	259.5	257.2	257.2	254.9
37.5°	2160.2	1598.0	728.4	448.4	327.8	284.5	259.5	243.6	241.3	241.3	241.3
40°	2271.7	1652.6	751.2	448.4	316.4	268.6	245.8	232.2	232.2	232.2	232.2
42.5°	2346.8	1657.1	746.6	448.4	307.3	257.2	236.7	223.1	223.1	225.4	223.1
45°	2458.4	1679.9	728.4	441.6	300.5	248.1	227.6	216.2	214.0	216.2	216.2
47.5°	2590.4	1720.9	710.2	414.3	298.2	239.0	220.8	207.1	204.9	207.1	204.9
50°	2715.6	1757.3	701.1	377.9	293.6	229.9	211.7	198.0	195.8	198.0	195.8
52.5°	2820.3	1773.2	685.2	352.8	282.3	220.8	202.6	188.9	184.4	186.7	186.7
55°	2904.5	1768.7	662.4	332.3	261.8	211.7	191.2	179.8	173.0	173.0	170.7
57.5°	2981.9	1770.9	641.9	311.9	239.0	198.0	182.1	168.4	159.3	157.1	154.8
60°	3011.5	1759.6	605.5	284.5	216.2	186.7	170.7	154.8	145.7	143.4	141.1
62.5°	2970.6	1718.6	557.7	236.7	195.8	173.0	159.3	143.4	134.3	132.0	129.7
65°	2854.5	1641.2	484.8	186.7	177.6	157.1	145.7	134.3	122.9	118.4	116.1
67.5°	2656.4	1529.7	393.8	150.2	157.1	143.4	136.6	122.9	109.3	104.7	102.4
70°	2374.2	1381.7	295.9	127.5	138.9	127.5	122.9	109.3	97.9	93.3	91.1
72.5°	1978.1	1142.7	207.1	109.3	120.6	111.5	107.0	97.9	86.5	79.7	79.7
75°	1495.5	819.5	136.6	93.3	100.2	95.6	88.8	81.9	75.1	70.6	68.3
77.5°	644.2	318.7	84.2	70.6	81.9	79.7	70.6	66.0	63.7	59.2	59.2
80°	277.7	129.7	52.4	52.4	59.2	56.9	54.6	50.1	50.1	47.8	45.5
82.5°	102.4	52.4	31.9	38.7	43.2	38.7	38.7	38.7	38.7	36.4	36.4
85°	25.0	15.9	15.9	22.8	25.0	22.8	25.0	22.8	22.8	22.8	20.5
87.5°	6.8	6.8	9.1	9.1	9.1	9.1	9.1	6.8	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)