

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: P835824

Luminaire Tested: **ARCH3-100-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835824
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: ARCH3-100-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10893 lumens
Efficiency: N/A
Efficacy: 106.2 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): 102.6
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



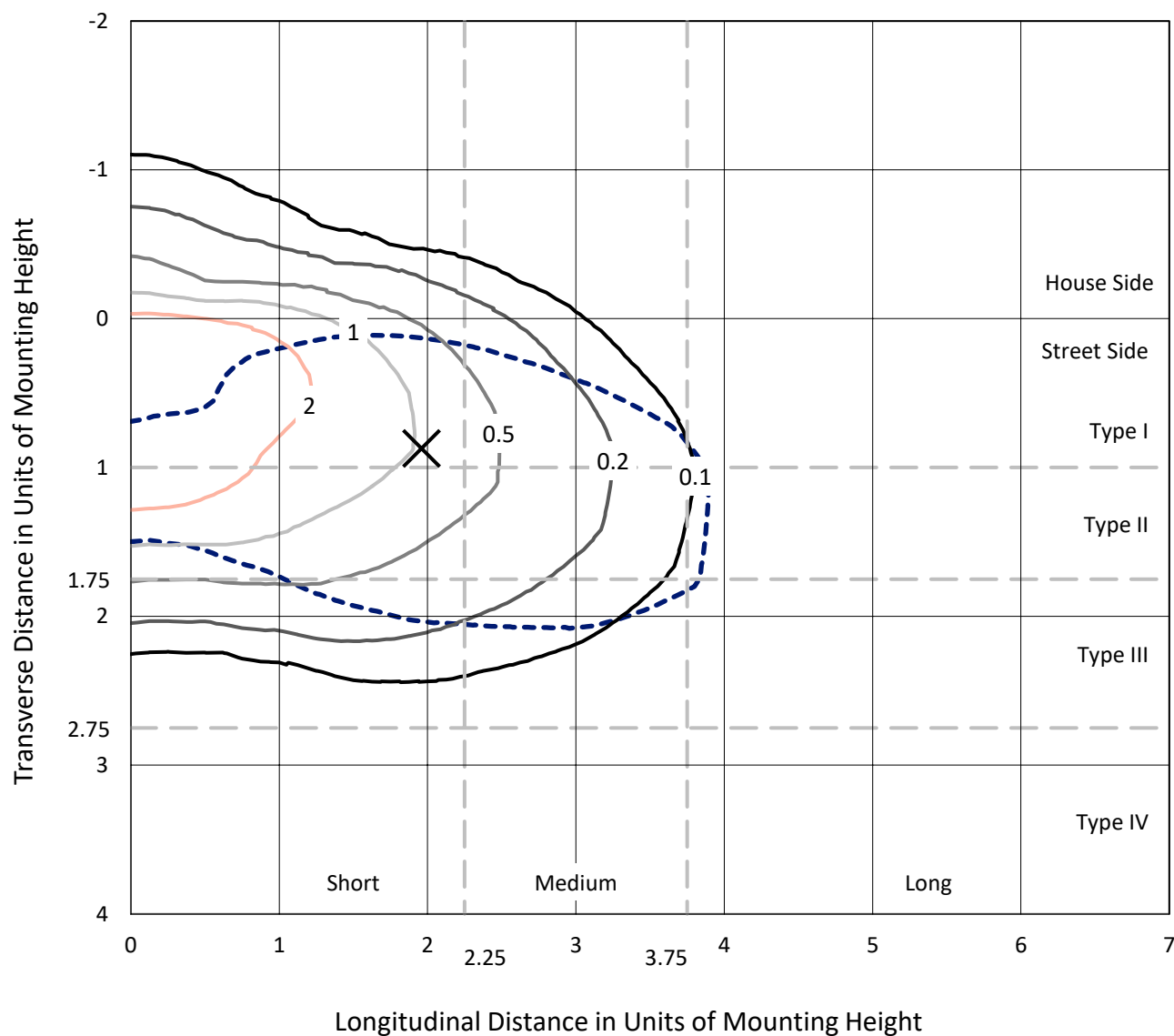
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

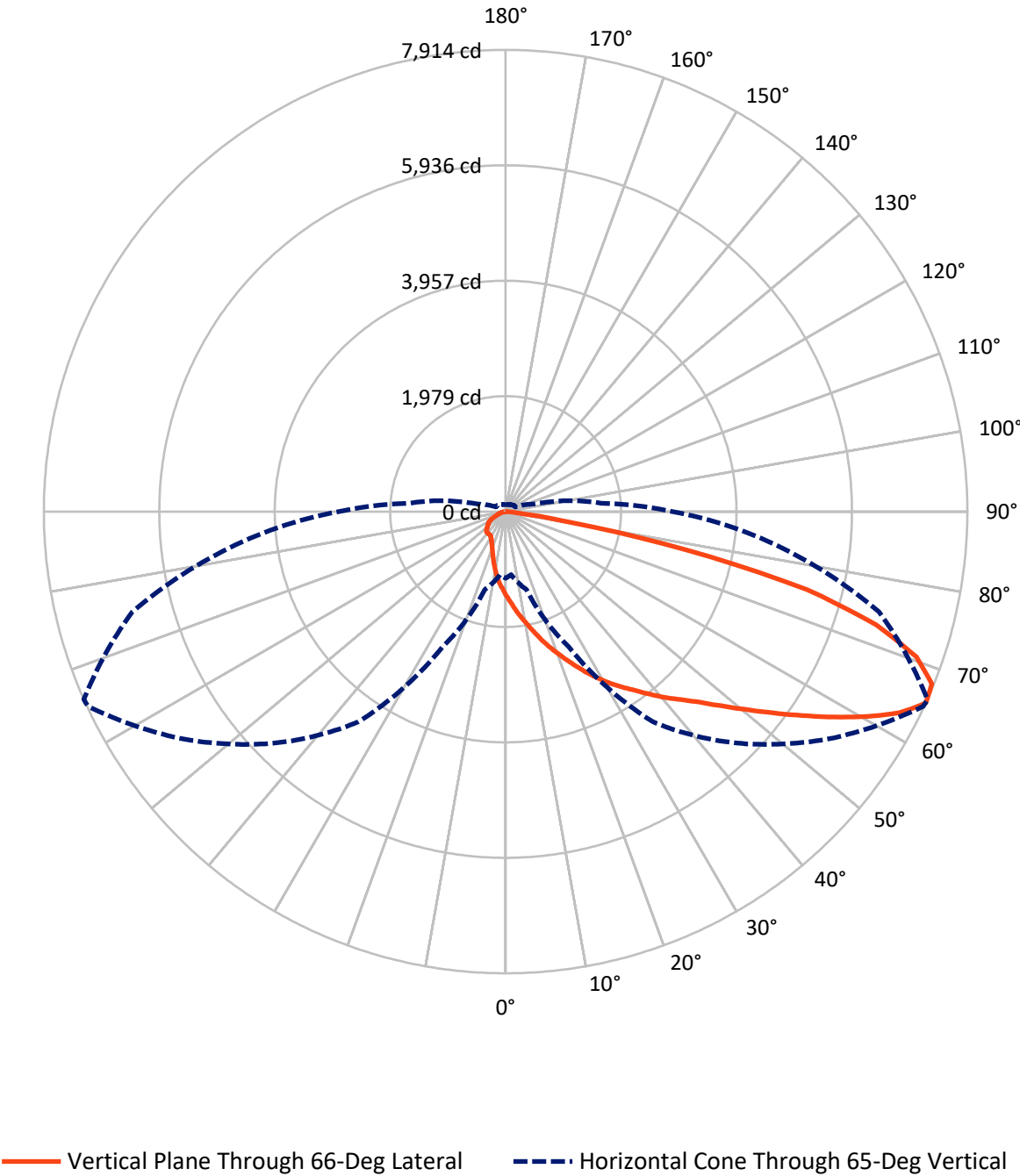


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

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	1152.2	0.0	1152.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	9740.8	0.0	9740.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	10893.0	0.0	10893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.3
10°-20°	463.8	4.3
20°-30°	839.1	7.7
30°-40°	1312.1	12.0
40°-50°	1990.5	18.3
50°-60°	2528.9	23.2
60°-70°	2363.0	21.7
70°-80°	1174.4	10.8
80°-90°	78.9	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°	10893.0	100.0
0°-180°	10893.0	100.0

Coefficient of Utilization



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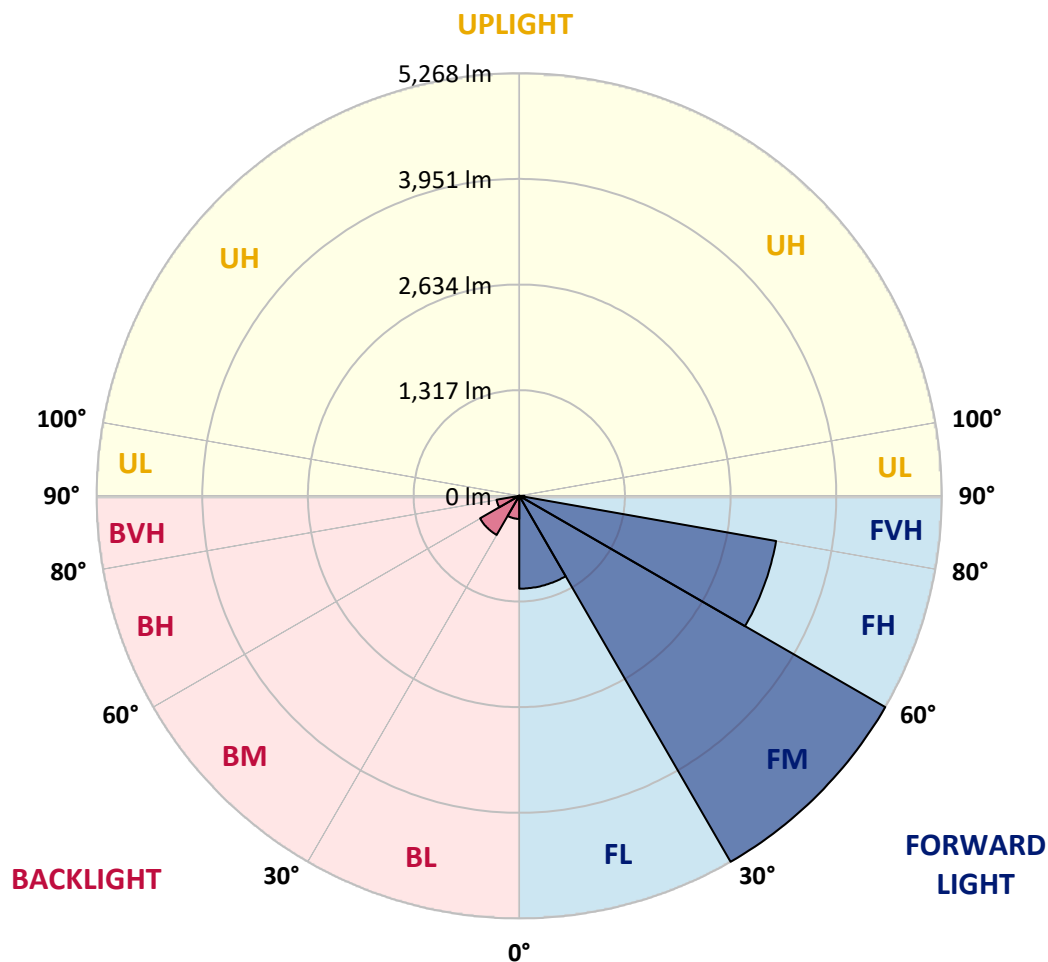
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1157.4	10.6			
FM	(30°-60°)	5268.0	48.4			
FH	(60°-80°)	3250.5	29.8			G2/5000
FVH	(80°-90°)	64.9	0.6			G1/100
BL	(0°-30°)	287.8	2.6	B1/500		
BM	(30°-60°)	563.5	5.2	B1/1000		
BH	(60°-80°)	286.9	2.6	B1/500		G1/500
BVH	(80°-90°)	14.0	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°	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6
2.5°	1683.8	1697.5	1704.4	1706.7	1654.1	1631.3	1608.4	1555.9	1544.4	1514.7	1475.9
5°	1980.8	1999.1	1994.5	1985.4	1921.4	1848.3	1788.9	1690.7	1674.7	1603.8	1517.0
7.5°	2273.2	2289.2	2284.7	2250.4	2179.6	2076.8	1978.5	1834.6	1811.7	1697.5	1558.1
10°	2517.7	2531.4	2529.1	2494.9	2410.3	2284.7	2165.9	1974.0	1946.5	1784.3	1592.4
12.5°	2718.8	2737.0	2734.8	2711.9	2636.5	2499.4	2364.6	2133.9	2099.6	1889.4	1640.4
15°	2876.4	2899.3	2899.3	2890.1	2837.6	2723.3	2570.3	2309.8	2268.7	2010.5	1699.8
17.5°	2972.4	2990.6	3006.6	3022.6	2986.1	2899.3	2759.9	2485.7	2442.3	2129.3	1761.5
20°	3022.6	3040.9	3052.3	3086.6	3093.4	3050.0	2940.4	2659.4	2613.7	2264.1	1832.3
22.5°	3104.9	3120.9	3123.1	3152.8	3166.6	3178.0	3109.4	2830.7	2794.2	2412.6	1912.3
25°	3242.0	3260.2	3253.4	3267.1	3269.4	3283.1	3276.2	3027.2	2990.6	2581.7	2008.2
27.5°	3417.9	3440.7	3436.1	3422.4	3401.9	3390.5	3420.2	3226.0	3191.7	2750.7	2106.5
30°	3607.5	3634.9	3628.1	3600.6	3545.8	3497.8	3539.0	3413.3	3381.3	2924.4	2216.1
32.5°	3799.4	3831.4	3829.1	3783.4	3689.7	3607.5	3669.2	3589.2	3566.4	3111.7	2334.9
35°	3925.1	3966.2	3961.6	3934.2	3813.1	3742.3	3817.7	3769.7	3753.7	3340.2	2506.3
37.5°	4128.4	4171.8	4133.0	4064.4	3925.1	3888.5	3979.9	3973.0	3961.6	3582.4	2686.8
40°	4621.9	4685.9	4583.1	4302.0	4073.6	4041.6	4171.8	4199.2	4187.8	3822.3	2849.0
42.5°	5138.2	5234.2	5074.3	4685.9	4343.2	4226.6	4382.0	4420.8	4407.1	4027.9	2995.2
45°	5451.2	5492.4	5332.4	5030.9	4820.7	4450.5	4605.9	4669.9	4658.4	4274.6	3182.5
47.5°	5707.1	5691.1	5508.3	5305.0	5343.9	4765.8	4859.5	4985.2	4976.0	4546.5	3388.2
50°	5761.9	5725.4	5652.3	5524.3	5627.2	5085.7	5126.8	5343.9	5334.7	4848.1	3596.1
52.5°	5375.8	5327.9	5526.6	5634.0	5599.7	5318.7	5421.5	5736.8	5732.2	5174.8	3794.8
55°	4411.7	4372.9	4907.5	5462.7	5570.0	5483.2	5748.2	6145.8	6170.9	5522.1	3975.3
57.5°	3470.4	3429.3	3954.8	5033.1	5460.4	5634.0	6129.8	6614.1	6646.1	5899.0	4146.7
60°	2766.7	2705.1	3107.2	4356.9	5254.7	5750.5	6497.6	7128.2	7132.7	6244.0	4251.8
62.5°	1880.3	1811.7	2257.3	3500.1	4909.8	5768.8	6780.9	7571.4	7589.7	6502.2	4270.1
65°	1142.3	1085.2	1386.8	2556.5	4400.3	5613.4	6785.5	7898.1	7914.1	6621.0	4160.4
67.5°	662.6	639.7	792.8	1592.4	3555.0	5195.3	6499.9	7847.9	7877.6	6570.7	3911.4
70°	386.1	383.8	440.9	788.2	2508.6	4366.0	5862.5	7425.2	7468.6	6308.0	3529.8
72.5°	283.3	287.9	310.7	422.7	1453.1	3143.7	4964.6	6575.3	6641.5	5793.9	2986.1
75°	223.9	226.2	246.7	287.9	763.1	1777.5	3719.4	5277.6	5330.1	4877.8	2332.7
77.5°	166.8	171.4	187.3	203.3	354.1	815.6	2092.8	3251.1	3164.3	2677.6	1126.3
80°	121.1	132.5	139.4	146.2	187.3	315.3	628.3	1133.2	1124.1	1169.8	532.3
82.5°	77.7	86.8	93.7	98.2	111.9	150.8	187.3	253.6	274.2	454.6	212.5
85°	34.3	38.8	43.4	52.5	48.0	52.5	77.7	50.3	43.4	68.5	38.8
87.5°	0.0	0.0	6.9	11.4	9.1	4.6	13.7	9.1	6.9	6.9	6.9
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°	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6
2.5°	1455.3	1430.2	1377.7	1327.4	1297.7	1258.9	1224.6	1192.6	1190.3	1181.2	1165.2
5°	1473.6	1425.6	1327.4	1233.7	1162.9	1087.5	1023.5	973.3	955.0	941.3	923.0
7.5°	1491.9	1416.5	1270.3	1133.2	1021.2	916.2	840.8	772.2	751.7	733.4	722.0
10°	1498.7	1400.5	1204.0	1021.2	875.0	763.1	683.1	632.9	614.6	605.4	598.6
12.5°	1519.3	1391.4	1142.3	916.2	747.1	644.3	587.2	557.5	550.6	543.8	536.9
15°	1546.7	1391.4	1080.7	813.3	646.6	564.3	530.0	509.5	504.9	502.6	498.1
17.5°	1576.4	1391.4	1021.2	726.5	573.5	511.8	486.6	475.2	472.9	470.6	468.4
20°	1617.5	1393.7	957.3	651.1	520.9	472.9	452.4	438.7	436.4	434.1	434.1
22.5°	1658.7	1398.2	895.6	594.0	486.6	443.2	418.1	404.4	399.8	399.8	399.8
25°	1711.2	1411.9	838.5	546.0	456.9	415.8	383.8	372.4	370.1	370.1	367.8
27.5°	1772.9	1427.9	788.2	509.5	427.2	383.8	351.8	340.4	335.8	335.8	333.6
30°	1839.2	1443.9	747.1	482.1	397.5	351.8	322.1	308.4	303.9	306.1	303.9
32.5°	1912.3	1466.8	715.1	463.8	370.1	324.4	297.0	281.0	278.7	278.7	276.4
35°	2035.6	1530.7	710.5	454.6	347.3	303.9	276.4	260.5	258.2	258.2	255.9
37.5°	2168.2	1603.8	731.1	450.1	329.0	285.6	260.5	244.5	242.2	242.2	242.2
40°	2280.1	1658.7	753.9	450.1	317.6	269.6	246.7	233.0	233.0	233.0	233.0
42.5°	2355.5	1663.2	749.4	450.1	308.4	258.2	237.6	223.9	223.9	226.2	223.9
45°	2467.4	1686.1	731.1	443.2	301.6	249.0	228.5	217.0	214.8	217.0	217.0
47.5°	2600.0	1727.2	712.8	415.8	299.3	239.9	221.6	207.9	205.6	207.9	205.6
50°	2725.6	1763.8	703.7	379.3	294.7	230.8	212.5	198.8	196.5	198.8	196.5
52.5°	2830.7	1779.8	687.7	354.1	283.3	221.6	203.3	189.6	185.1	187.3	187.3
55°	2915.2	1775.2	664.8	333.6	262.7	212.5	191.9	180.5	173.6	173.6	171.4
57.5°	2992.9	1777.5	644.3	313.0	239.9	198.8	182.8	169.1	159.9	157.6	155.4
60°	3022.6	1766.1	607.7	285.6	217.0	187.3	171.4	155.4	146.2	143.9	141.6
62.5°	2981.5	1724.9	559.7	237.6	196.5	173.6	159.9	143.9	134.8	132.5	130.2
65°	2865.0	1647.2	486.6	187.3	178.2	157.6	146.2	134.8	123.4	118.8	116.5
67.5°	2666.2	1535.3	395.2	150.8	157.6	143.9	137.1	123.4	109.7	105.1	102.8
70°	2382.9	1386.8	297.0	127.9	139.4	127.9	123.4	109.7	98.2	93.7	91.4
72.5°	1985.4	1146.9	207.9	109.7	121.1	111.9	107.4	98.2	86.8	80.0	80.0
75°	1501.0	822.5	137.1	93.7	100.5	96.0	89.1	82.2	75.4	70.8	68.5
77.5°	646.6	319.9	84.5	70.8	82.2	80.0	70.8	66.3	64.0	59.4	59.4
80°	278.7	130.2	52.5	52.5	59.4	57.1	54.8	50.3	50.3	48.0	45.7
82.5°	102.8	52.5	32.0	38.8	43.4	38.8	38.8	38.8	38.8	36.6	36.6
85°	25.1	16.0	16.0	22.8	25.1	22.8	25.1	22.8	22.8	22.8	20.6
87.5°	6.9	6.9	9.1	9.1	9.1	9.1	9.1	6.9	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)