

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: P842735

Luminaire Tested: **ARCH4-90-722-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9687 lumens
Efficiency: N/A
Efficacy: 104.0 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



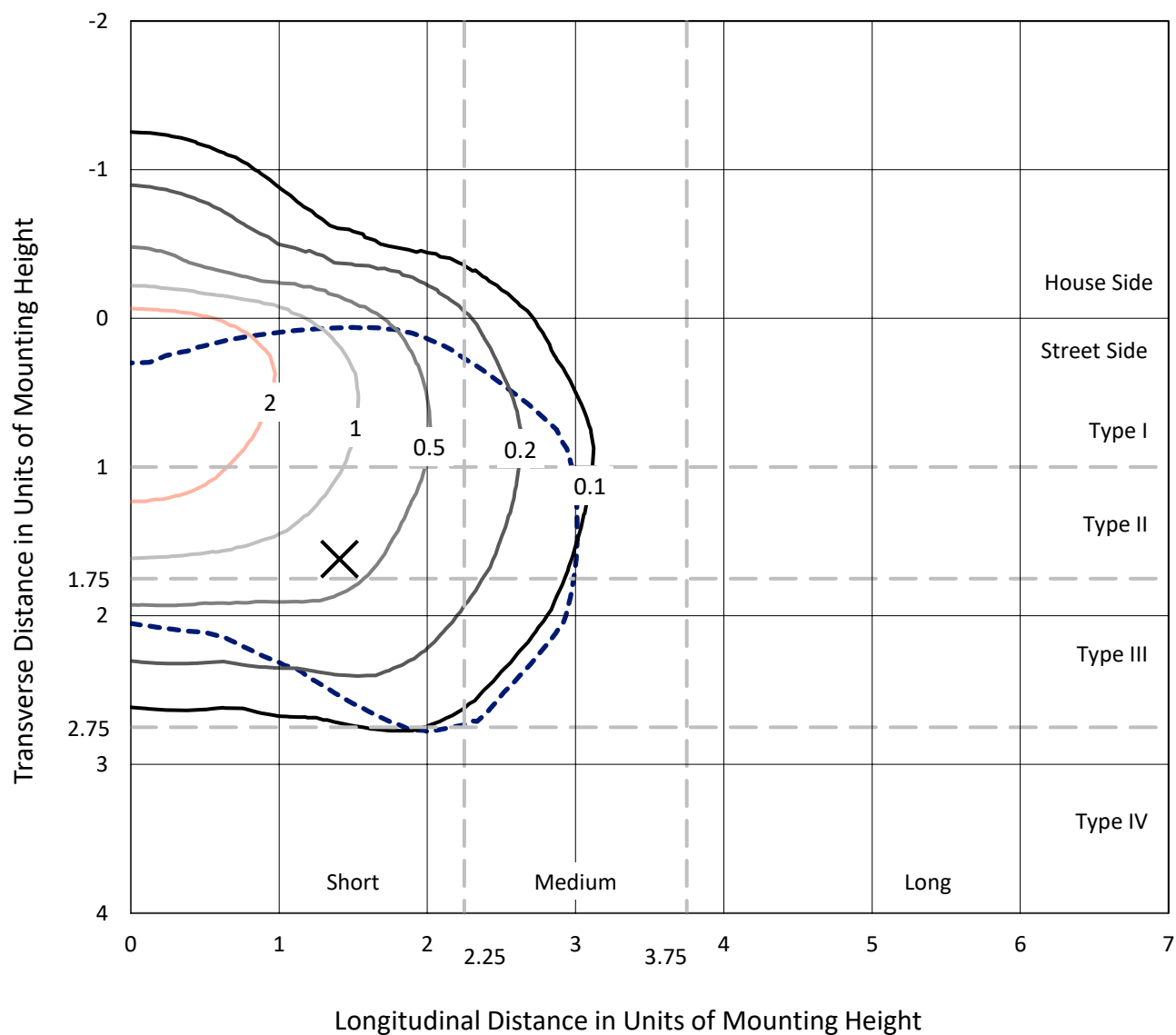
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

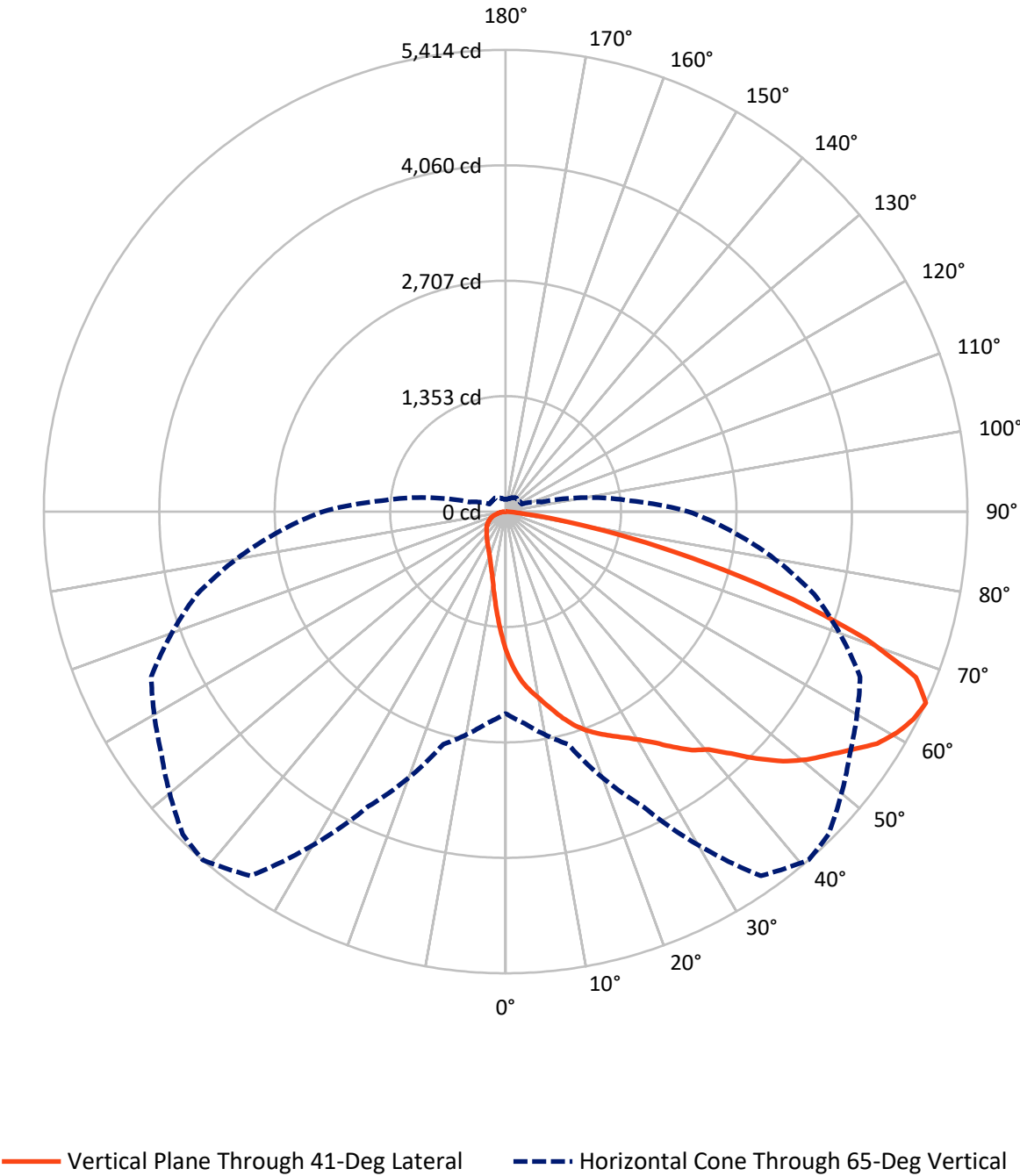


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

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	1243.7	0.0	1243.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8443.3	0.0	8443.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	9687.0	0.0	9687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	1.6
10°-20°	461.2	4.8
20°-30°	793.4	8.2
30°-40°	1203.3	12.4
40°-50°	1762.8	18.2
50°-60°	2226.1	23.0
60°-70°	2087.3	21.5
70°-80°	930.3	9.6
80°-90°	68.9	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°	9687.0	100.0
0°-180°	9687.0	100.0

Coefficient of Utilization



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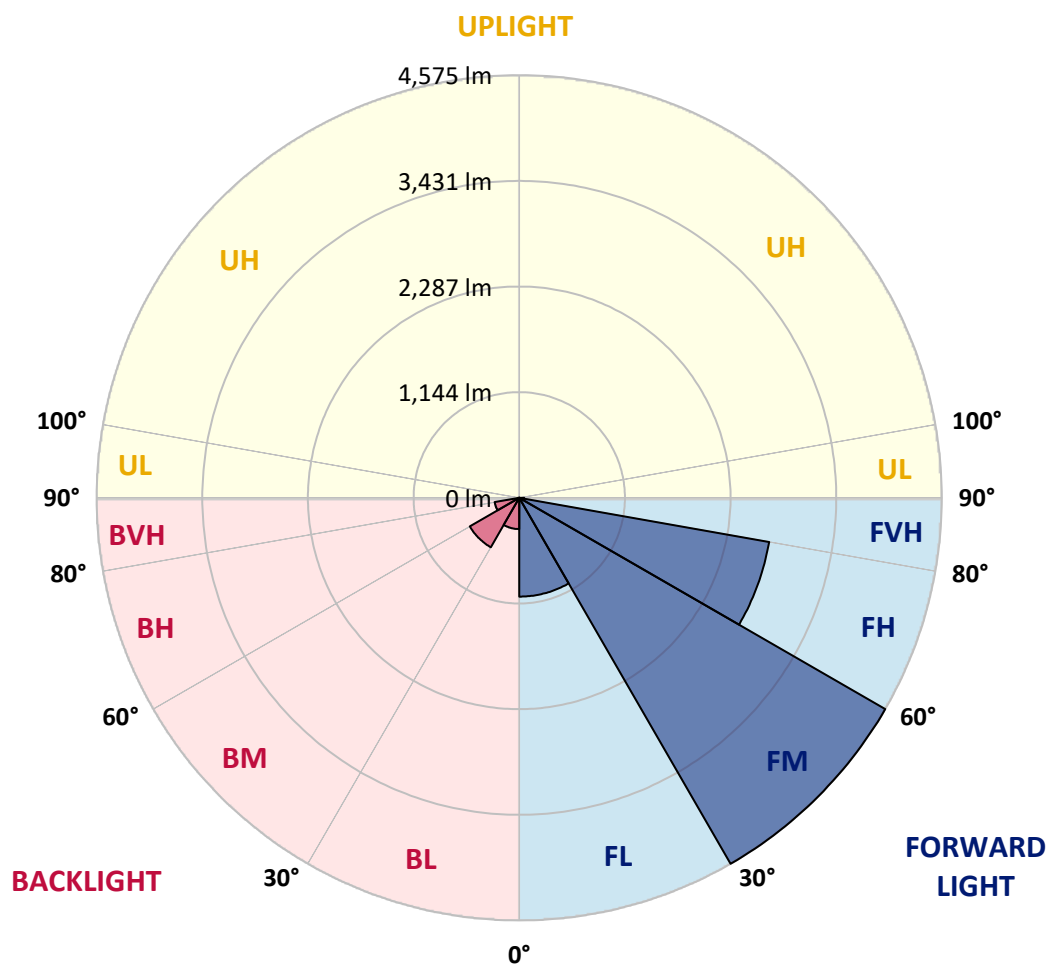
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1069.8	11.0			
FM	(30°-60°)	4574.6	47.2			
FH	(60°-80°)	2747.5	28.4			G2/5000
FVH	(80°-90°)	51.5	0.5			G1/100
BL	(0°-30°)	338.5	3.5	B1/500		
BM	(30°-60°)	617.5	6.4	B1/1000		
BH	(60°-80°)	270.2	2.8	B1/500		G1/500
BVH	(80°-90°)	17.4	0.2			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°	41°	45°	55°	65°	75°	85°
0°	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6
2.5°	1903.9	1897.8	1893.7	1871.2	1871.2	1840.6	1842.6	1814.0	1779.3	1724.2	1664.9
5°	2083.7	2075.5	2065.3	2042.8	2034.7	2004.0	1999.9	1959.1	1899.8	1803.8	1697.6
7.5°	2241.0	2232.8	2218.5	2185.8	2163.4	2126.6	2116.4	2063.3	1997.9	1879.4	1730.3
10°	2384.0	2377.9	2359.5	2318.6	2288.0	2243.0	2224.7	2153.2	2071.4	1940.7	1756.8
12.5°	2529.0	2520.9	2496.3	2461.6	2424.9	2371.7	2349.3	2257.3	2153.2	2008.1	1795.7
15°	2663.9	2651.6	2633.2	2596.4	2563.8	2512.7	2488.2	2379.9	2253.3	2083.7	1846.7
17.5°	2751.7	2741.5	2725.1	2704.7	2678.2	2639.3	2614.8	2508.6	2353.4	2157.2	1899.8
20°	2804.8	2800.7	2794.6	2782.3	2770.1	2743.5	2725.1	2625.0	2461.6	2228.7	1950.9
22.5°	2845.7	2841.6	2839.5	2839.5	2841.6	2831.4	2819.1	2733.3	2565.8	2304.3	1997.9
25°	2909.0	2907.0	2902.9	2898.8	2913.1	2915.1	2911.0	2851.8	2696.5	2404.4	2057.1
27.5°	2996.8	2990.7	2982.5	2978.5	2992.8	3003.0	3011.1	2970.3	2835.5	2506.6	2124.6
30°	3131.7	3113.3	3092.9	3078.6	3088.8	3105.1	3123.5	3099.0	2978.5	2633.2	2194.0
32.5°	3291.0	3268.5	3221.6	3195.0	3221.6	3233.8	3248.1	3235.9	3127.6	2770.1	2263.5
35°	3485.1	3458.5	3409.5	3370.7	3417.7	3391.1	3385.0	3372.7	3268.5	2904.9	2341.1
37.5°	3807.9	3769.0	3691.4	3605.6	3605.6	3548.4	3525.9	3489.2	3395.2	3025.4	2416.7
40°	4181.7	4130.6	4030.5	3903.9	3787.4	3668.9	3654.6	3628.1	3544.3	3164.4	2502.5
42.5°	4592.3	4494.2	4355.3	4202.1	4014.2	3879.4	3846.7	3771.1	3689.4	3305.3	2588.3
45°	5047.9	4843.6	4641.3	4563.7	4253.2	4130.6	4069.3	3932.5	3840.5	3452.4	2678.2
47.5°	5121.4	4962.1	4827.2	4815.0	4475.9	4373.7	4304.3	4108.1	4004.0	3609.7	2772.1
50°	5080.5	4984.5	4998.8	4949.8	4639.3	4571.9	4518.8	4296.1	4165.3	3760.9	2857.9
52.5°	4908.9	4962.1	5043.8	4953.9	4794.5	4739.4	4712.8	4498.3	4316.5	3899.8	2935.6
55°	4704.7	4741.4	4917.1	5027.4	4974.3	4925.3	4900.8	4733.3	4465.6	4016.2	3007.1
57.5°	4406.4	4390.1	4584.1	5015.2	5162.3	5133.7	5107.1	4964.1	4604.6	4100.0	3052.0
60°	3959.0	3924.3	4169.4	4770.0	5223.5	5268.5	5256.2	5117.3	4710.8	4097.9	3033.6
62.5°	3184.8	3270.6	3609.7	4369.6	5250.1	5364.5	5342.0	5129.6	4745.5	3979.5	2917.2
65°	2367.7	2490.2	2823.2	3818.1	5213.3	5413.5	5352.2	4929.4	4584.1	3744.5	2661.8
67.5°	1705.8	1814.0	2057.1	3141.9	4859.9	5188.8	5117.3	4602.5	4212.3	3411.5	2308.4
70°	1166.5	1244.1	1409.6	2288.0	4149.0	4486.1	4441.1	4114.3	3626.0	3015.2	1875.3
72.5°	823.3	855.9	962.2	1509.7	3152.1	3519.8	3466.7	3385.0	2913.1	2506.6	1458.6
75°	616.9	637.4	694.6	976.5	2126.6	2439.2	2390.1	2437.1	2175.6	1897.8	1062.3
77.5°	232.9	253.3	394.3	623.1	1258.4	1497.4	1448.4	1477.0	1209.4	958.1	529.1
80°	63.3	67.4	130.7	296.2	572.0	745.6	678.2	582.2	449.4	441.3	279.9
82.5°	26.6	30.6	59.2	159.3	204.3	204.3	171.6	212.5	171.6	206.3	134.8
85°	10.2	12.3	14.3	40.9	26.6	28.6	30.6	40.9	34.7	42.9	30.6
87.5°	0.0	0.0	0.0	2.0	2.0	4.1	2.0	4.1	6.1	6.1	6.1
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°	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6
2.5°	1640.4	1617.9	1585.2	1532.1	1477.0	1446.3	1407.5	1401.4	1360.5	1356.4	1340.1
5°	1650.6	1603.6	1519.9	1417.7	1317.6	1240.0	1182.8	1152.2	1092.9	1092.9	1076.6
7.5°	1658.8	1585.2	1450.4	1299.2	1162.4	1058.2	980.6	947.9	894.8	890.7	878.4
10°	1660.8	1562.8	1374.8	1178.7	1011.2	905.0	829.4	792.6	745.6	741.6	733.4
12.5°	1677.2	1550.5	1307.4	1074.5	902.9	788.5	715.0	684.4	647.6	643.5	635.3
15°	1703.7	1550.5	1250.2	986.7	806.9	700.7	637.4	608.8	582.2	578.1	574.0
17.5°	1730.3	1546.4	1193.0	905.0	727.3	631.2	576.1	553.6	533.2	531.1	527.1
20°	1754.8	1544.4	1135.8	835.5	666.0	574.0	531.1	510.7	494.4	494.4	492.3
22.5°	1779.3	1540.3	1080.7	770.2	612.9	531.1	494.4	471.9	459.6	459.6	457.6
25°	1816.1	1540.3	1029.6	715.0	570.0	498.5	461.7	445.3	435.1	433.1	433.1
27.5°	1859.0	1552.6	984.6	666.0	533.2	465.8	437.2	420.8	408.6	404.5	406.5
30°	1906.0	1562.8	943.8	623.1	498.5	441.3	410.6	394.3	382.0	377.9	380.0
32.5°	1953.0	1575.0	907.0	584.3	463.7	418.8	388.1	369.8	357.5	355.5	355.5
35°	2004.0	1587.3	870.2	551.6	435.1	396.3	367.7	347.3	339.1	335.0	337.1
37.5°	2055.1	1607.7	835.5	520.9	414.7	375.9	349.3	328.9	322.8	320.7	320.7
40°	2116.4	1638.4	821.2	500.5	396.3	357.5	335.0	314.6	308.5	308.5	308.5
42.5°	2167.5	1662.9	809.0	478.0	382.0	341.2	320.7	304.4	300.3	298.3	300.3
45°	2218.5	1685.3	792.6	457.6	363.6	324.8	308.5	292.1	288.0	288.0	288.0
47.5°	2269.6	1697.6	770.2	437.2	347.3	310.5	296.2	281.9	277.8	277.8	277.8
50°	2310.5	1707.8	737.5	414.7	328.9	298.3	284.0	269.7	265.6	265.6	265.6
52.5°	2351.3	1709.9	702.7	388.1	310.5	284.0	271.7	257.4	253.3	251.3	251.3
55°	2388.1	1707.8	661.9	357.5	290.1	267.6	257.4	245.1	237.0	228.8	232.9
57.5°	2414.6	1705.8	614.9	326.9	269.7	251.3	247.2	230.8	214.5	194.1	198.2
60°	2404.4	1683.3	563.8	288.0	247.2	234.9	234.9	212.5	183.9	173.6	175.7
62.5°	2339.1	1620.0	510.7	247.2	224.7	218.6	216.5	192.0	169.6	159.3	161.4
65°	2142.9	1460.6	433.1	210.4	202.2	200.2	200.2	177.7	157.3	145.0	147.1
67.5°	1844.7	1225.7	353.4	177.7	179.8	183.9	183.9	163.4	143.0	130.7	132.8
70°	1479.0	958.1	281.9	153.2	155.3	161.4	165.5	147.1	128.7	116.4	116.4
72.5°	1113.3	727.3	226.8	128.7	138.9	138.9	145.0	130.7	112.4	100.1	102.1
75°	806.9	520.9	179.8	108.3	120.5	118.5	118.5	110.3	96.0	87.8	87.8
77.5°	382.0	273.7	143.0	77.6	94.0	91.9	94.0	87.8	81.7	73.5	75.6
80°	187.9	134.8	91.9	55.2	65.4	67.4	73.5	69.5	67.4	61.3	61.3
82.5°	89.9	53.1	42.9	38.8	44.9	47.0	51.1	51.1	53.1	49.0	49.0
85°	24.5	14.3	18.4	24.5	28.6	30.6	34.7	36.8	36.8	34.7	36.8
87.5°	6.1	6.1	8.2	12.3	14.3	16.3	18.4	18.4	8.2	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)