

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: P836825

Luminaire Tested: **ARCH3-80-727-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8619 lumens
Efficiency: N/A
Efficacy: 105.2 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): 81.9
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



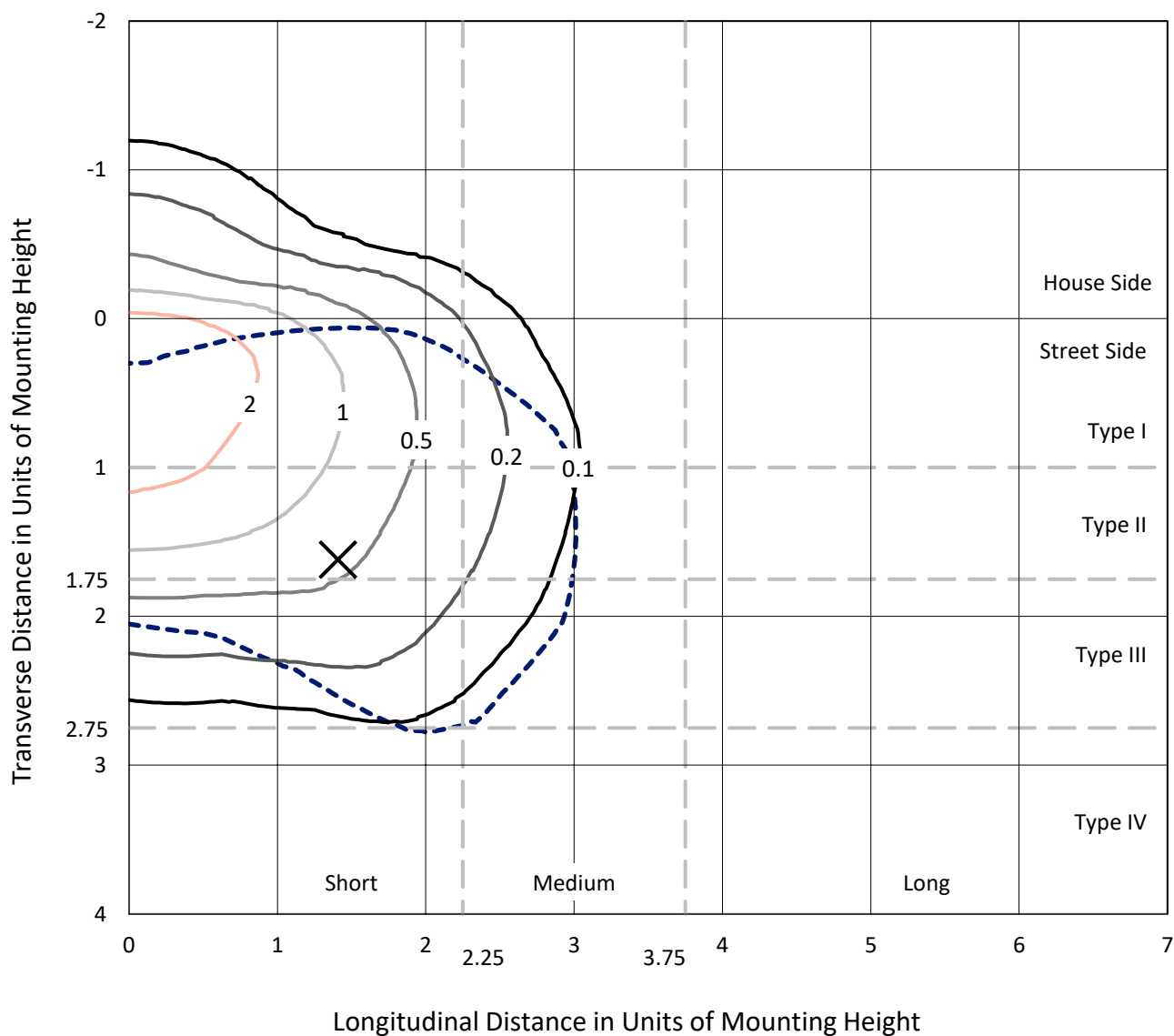
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

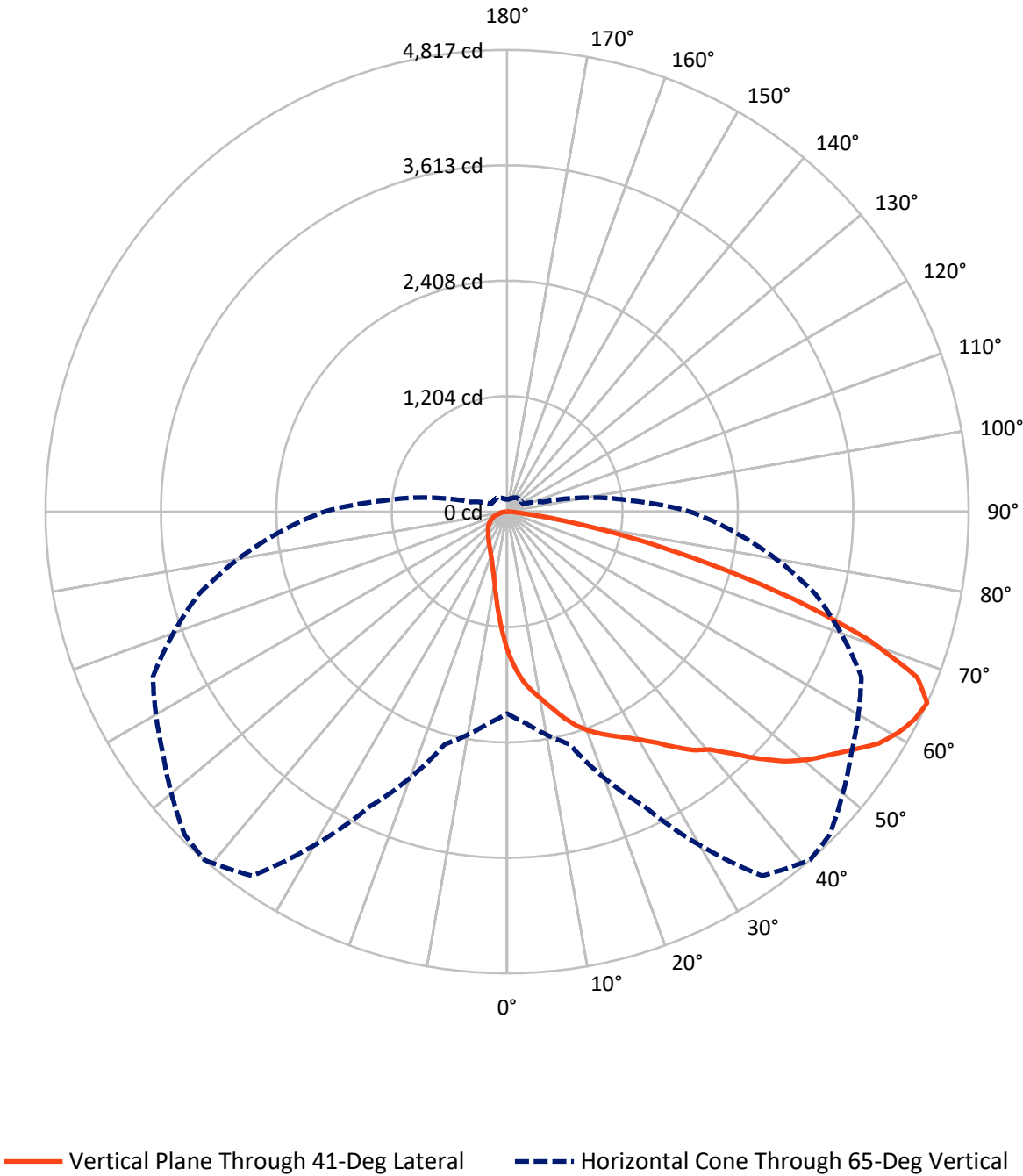


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc

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	1106.5	0.0	1106.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7512.5	0.0	7512.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	8619.0	0.0	8619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	1.6
10°-20°	410.3	4.8
20°-30°	705.9	8.2
30°-40°	1070.6	12.4
40°-50°	1568.5	18.2
50°-60°	1980.6	23.0
60°-70°	1857.2	21.5
70°-80°	827.8	9.6
80°-90°	61.3	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°	8619.0	100.0
0°-180°	8619.0	100.0

Coefficient of Utilization



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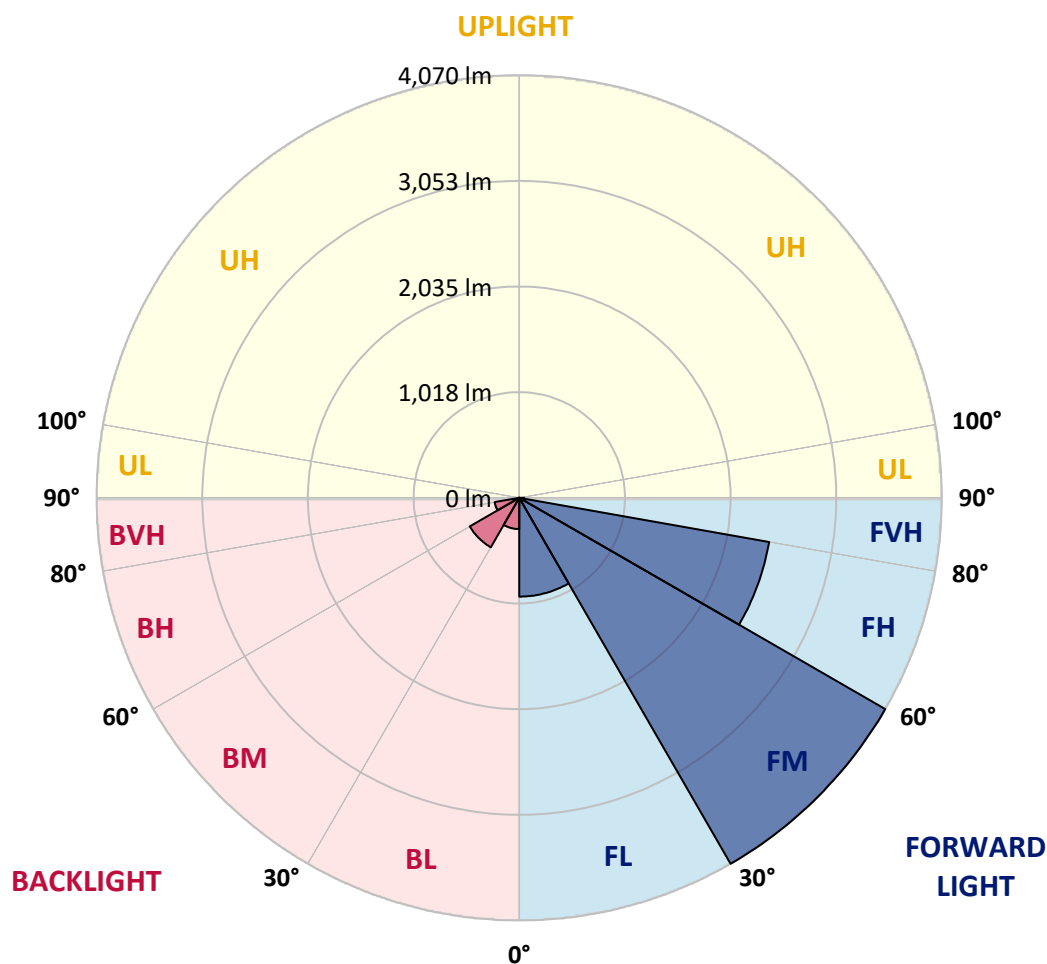
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	951.9	11.0			
FM	(30°-60°)	4070.2	47.2			
FH	(60°-80°)	2444.6	28.4			G2/5000
FVH	(80°-90°)	45.8	0.5			G1/100
BL	(0°-30°)	301.2	3.5	B1/500		
BM	(30°-60°)	549.5	6.4	B1/1000		
BH	(60°-80°)	240.4	2.8	B1/500		G1/500
BVH	(80°-90°)	15.5	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°	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6
2.5°	1694.0	1688.6	1684.9	1664.9	1664.9	1637.7	1639.5	1614.0	1583.1	1534.1	1481.4
5°	1854.0	1846.7	1837.6	1817.6	1810.3	1783.1	1779.4	1743.1	1690.4	1605.0	1510.4
7.5°	1993.9	1986.7	1973.9	1944.8	1924.9	1892.1	1883.0	1835.8	1777.6	1672.2	1539.5
10°	2121.2	2115.7	2099.3	2063.0	2035.7	1995.7	1979.4	1915.8	1843.1	1726.7	1563.1
12.5°	2250.2	2242.9	2221.1	2190.2	2157.5	2110.3	2090.3	2008.5	1915.8	1786.7	1597.7
15°	2370.2	2359.3	2342.9	2310.2	2281.1	2235.7	2213.9	2117.5	2004.8	1854.0	1643.1
17.5°	2448.3	2439.2	2424.7	2406.5	2382.9	2348.4	2326.5	2232.0	2093.9	1919.4	1690.4
20°	2495.6	2491.9	2486.5	2475.6	2464.7	2441.1	2424.7	2335.6	2190.2	1983.0	1735.8
22.5°	2531.9	2528.3	2526.5	2526.5	2528.3	2519.2	2508.3	2432.0	2282.9	2050.3	1777.6
25°	2588.3	2586.5	2582.8	2579.2	2591.9	2593.7	2590.1	2537.4	2399.3	2139.3	1830.3
27.5°	2666.4	2661.0	2653.7	2650.1	2662.8	2671.9	2679.2	2642.8	2522.8	2230.2	1890.3
30°	2786.4	2770.0	2751.9	2739.1	2748.2	2762.8	2779.1	2757.3	2650.1	2342.9	1952.1
32.5°	2928.2	2908.2	2866.4	2842.7	2866.4	2877.3	2890.0	2879.1	2782.8	2464.7	2013.9
35°	3100.9	3077.2	3033.6	2999.1	3040.9	3017.2	3011.8	3000.9	2908.2	2584.6	2083.0
37.5°	3388.0	3353.5	3284.4	3208.1	3208.1	3157.2	3137.2	3104.5	3020.9	2691.9	2150.2
40°	3720.7	3675.2	3586.2	3473.5	3369.9	3264.4	3251.7	3228.1	3153.6	2815.5	2226.6
42.5°	4086.0	3998.8	3875.2	3738.8	3571.6	3451.6	3422.6	3355.3	3282.6	2940.9	2302.9
45°	4491.3	4309.6	4129.6	4060.6	3784.3	3675.2	3620.7	3498.9	3417.1	3071.8	2382.9
47.5°	4556.8	4415.0	4295.0	4284.1	3982.4	3891.5	3829.7	3655.2	3562.5	3211.7	2466.5
50°	4520.4	4435.0	4447.7	4404.1	4127.8	4067.8	4020.6	3822.4	3706.1	3346.2	2542.8
52.5°	4367.7	4415.0	4487.7	4407.7	4265.9	4216.9	4193.2	4002.4	3840.6	3469.8	2611.9
55°	4186.0	4218.7	4375.0	4473.1	4425.9	4382.3	4360.5	4211.4	3973.3	3573.4	2675.5
57.5°	3920.6	3906.1	4078.7	4462.2	4593.1	4567.7	4544.0	4416.8	4096.9	3648.0	2715.5
60°	3522.5	3491.6	3709.8	4244.1	4647.6	4687.6	4676.7	4553.1	4191.4	3646.1	2699.2
62.5°	2833.7	2910.0	3211.7	3887.9	4671.3	4773.1	4753.1	4564.0	4222.3	3540.7	2595.6
65°	2106.6	2215.7	2511.9	3397.1	4638.6	4816.7	4762.2	4385.9	4078.7	3331.7	2368.4
67.5°	1517.7	1614.0	1830.3	2795.5	4324.1	4616.7	4553.1	4095.1	3747.9	3035.4	2053.9
70°	1037.9	1106.9	1254.2	2035.7	3691.6	3991.5	3951.5	3660.7	3226.3	2682.8	1668.6
72.5°	732.5	761.6	856.1	1343.2	2804.6	3131.7	3084.5	3011.8	2591.9	2230.2	1297.8
75°	548.9	567.1	618.0	868.8	1892.1	2170.2	2126.6	2168.4	1935.8	1688.6	945.2
77.5°	207.2	225.4	350.8	554.4	1119.7	1332.3	1288.7	1314.1	1076.0	852.5	470.8
80°	56.3	60.0	116.3	263.6	508.9	663.4	603.4	518.0	399.9	392.6	249.0
82.5°	23.6	27.3	52.7	141.8	181.8	181.8	152.7	189.0	152.7	183.6	120.0
85°	9.1	10.9	12.7	36.4	23.6	25.4	27.3	36.4	30.9	38.2	27.3
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	1.8	3.6	5.5	5.5	5.5
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°	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6
2.5°	1459.5	1439.6	1410.5	1363.2	1314.1	1286.9	1252.3	1246.9	1210.5	1206.9	1192.4
5°	1468.6	1426.8	1352.3	1261.4	1172.4	1103.3	1052.4	1025.1	972.4	972.4	957.9
7.5°	1475.9	1410.5	1290.5	1156.0	1034.2	941.5	872.5	843.4	796.1	792.5	781.6
10°	1477.7	1390.5	1223.3	1048.8	899.7	805.2	738.0	705.2	663.4	659.8	652.5
12.5°	1492.3	1379.6	1163.3	956.1	803.4	701.6	636.2	608.9	576.2	572.5	565.3
15°	1515.9	1379.6	1112.4	877.9	718.0	623.4	567.1	541.6	518.0	514.4	510.7
17.5°	1539.5	1375.9	1061.5	805.2	647.1	561.6	512.6	492.6	474.4	472.6	468.9
20°	1561.3	1374.1	1010.6	743.4	592.5	510.7	472.6	454.4	439.9	439.9	438.0
22.5°	1583.1	1370.5	961.5	685.2	545.3	472.6	439.9	419.9	409.0	409.0	407.1
25°	1615.9	1370.5	916.1	636.2	507.1	443.5	410.8	396.2	387.2	385.3	385.3
27.5°	1654.0	1381.4	876.1	592.5	474.4	414.4	389.0	374.4	363.5	359.9	361.7
30°	1695.8	1390.5	839.7	554.4	443.5	392.6	365.3	350.8	339.9	336.3	338.1
32.5°	1737.6	1401.4	807.0	519.8	412.6	372.6	345.3	329.0	318.1	316.3	316.3
35°	1783.1	1412.3	774.3	490.8	387.2	352.6	327.2	309.0	301.7	298.1	299.9
37.5°	1828.5	1430.5	743.4	463.5	369.0	334.4	310.8	292.6	287.2	285.4	285.4
40°	1883.0	1457.7	730.7	445.3	352.6	318.1	298.1	279.9	274.5	274.5	274.5
42.5°	1928.5	1479.5	719.8	425.3	339.9	303.5	285.4	270.8	267.2	265.4	267.2
45°	1973.9	1499.5	705.2	407.1	323.5	289.0	274.5	259.9	256.3	256.3	256.3
47.5°	2019.4	1510.4	685.2	389.0	309.0	276.3	263.6	250.8	247.2	247.2	247.2
50°	2055.7	1519.5	656.2	369.0	292.6	265.4	252.6	239.9	236.3	236.3	236.3
52.5°	2092.1	1521.3	625.3	345.3	276.3	252.6	241.7	229.0	225.4	223.6	223.6
55°	2124.8	1519.5	588.9	318.1	258.1	238.1	229.0	218.1	210.8	203.6	207.2
57.5°	2148.4	1517.7	547.1	290.8	239.9	223.6	219.9	205.4	190.8	172.7	176.3
60°	2139.3	1497.7	501.7	256.3	219.9	209.0	209.0	189.0	163.6	154.5	156.3
62.5°	2081.2	1441.4	454.4	219.9	199.9	194.5	192.7	170.9	150.9	141.8	143.6
65°	1906.7	1299.6	385.3	187.2	179.9	178.1	178.1	158.1	140.0	129.1	130.9
67.5°	1641.3	1090.6	314.4	158.1	160.0	163.6	163.6	145.4	127.2	116.3	118.1
70°	1316.0	852.5	250.8	136.3	138.1	143.6	147.2	130.9	114.5	103.6	103.6
72.5°	990.6	647.1	201.8	114.5	123.6	123.6	129.1	116.3	100.0	89.1	90.9
75°	718.0	463.5	160.0	96.3	107.2	105.4	105.4	98.2	85.4	78.2	78.2
77.5°	339.9	243.6	127.2	69.1	83.6	81.8	83.6	78.2	72.7	65.4	67.3
80°	167.2	120.0	81.8	49.1	58.2	60.0	65.4	61.8	60.0	54.5	54.5
82.5°	80.0	47.3	38.2	34.5	40.0	41.8	45.4	45.4	47.3	43.6	43.6
85°	21.8	12.7	16.4	21.8	25.4	27.3	30.9	32.7	32.7	30.9	32.7
87.5°	5.5	5.5	7.3	10.9	12.7	14.5	16.4	16.4	7.3	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)