

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: P836742

Luminaire Tested: **ARCH3-70-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836742
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: ARCH3-70-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7144 lumens
Efficiency: N/A
Efficacy: 97.7 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): 73.1
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

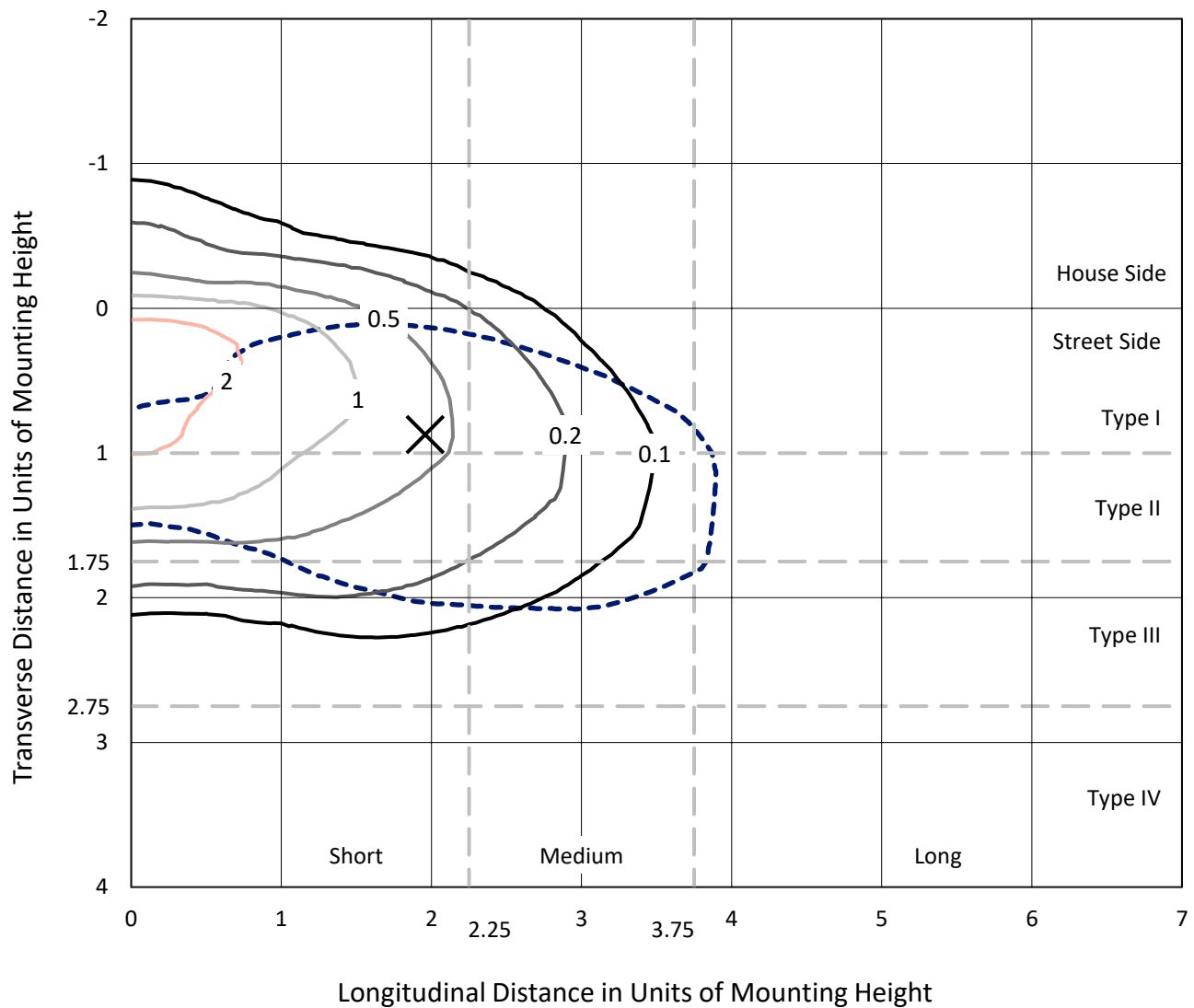


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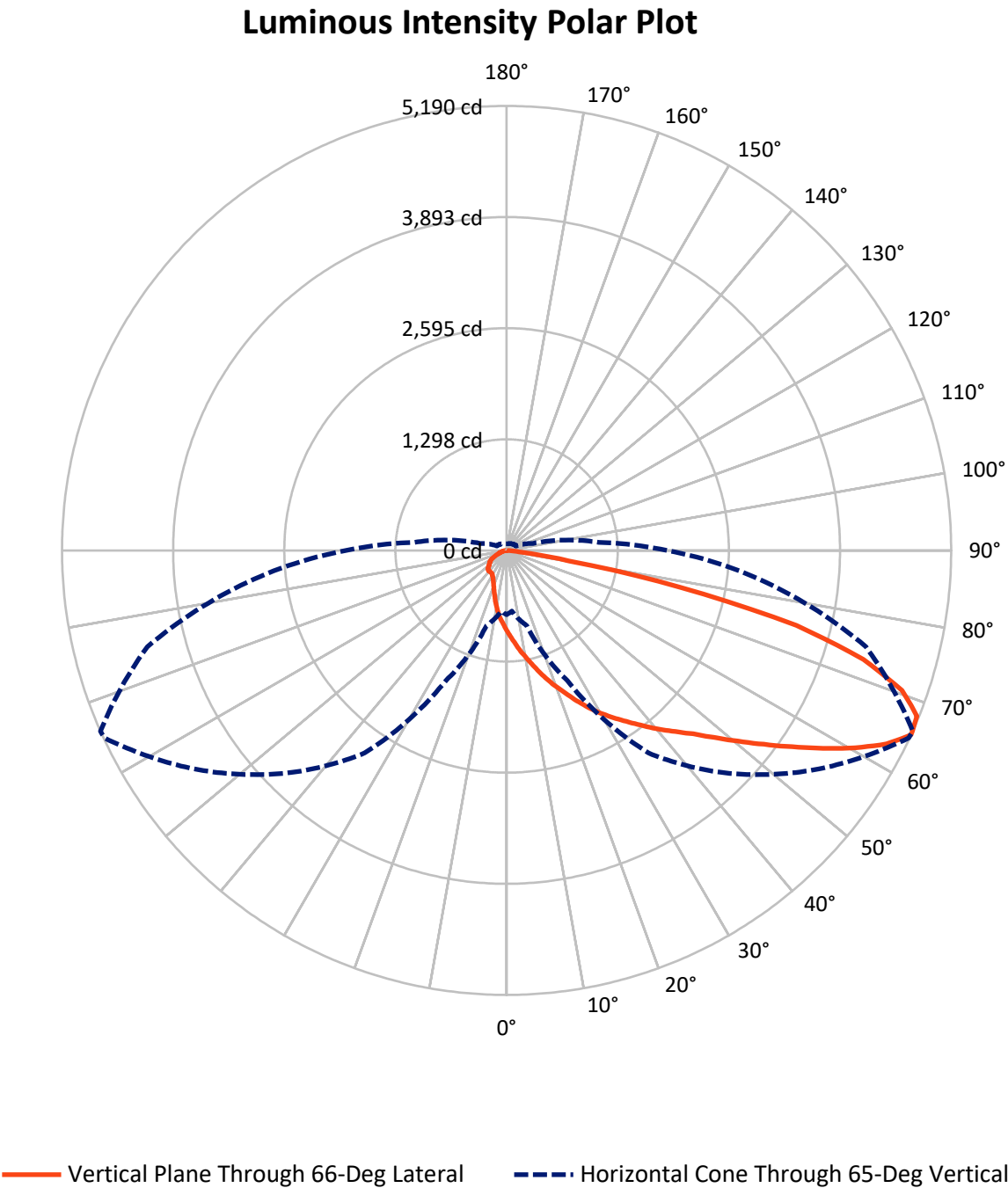
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	755.7	0.0	755.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6388.4	0.0	6388.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	7144.0	0.0	7144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	1.3
10°-20°	304.2	4.3
20°-30°	550.3	7.7
30°-40°	860.5	12.0
40°-50°	1305.4	18.3
50°-60°	1658.6	23.2
60°-70°	1549.8	21.7
70°-80°	770.2	10.8
80°-90°	51.8	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°	7144.0	100.0
0°-180°	7144.0	100.0

Coefficient of Utilization



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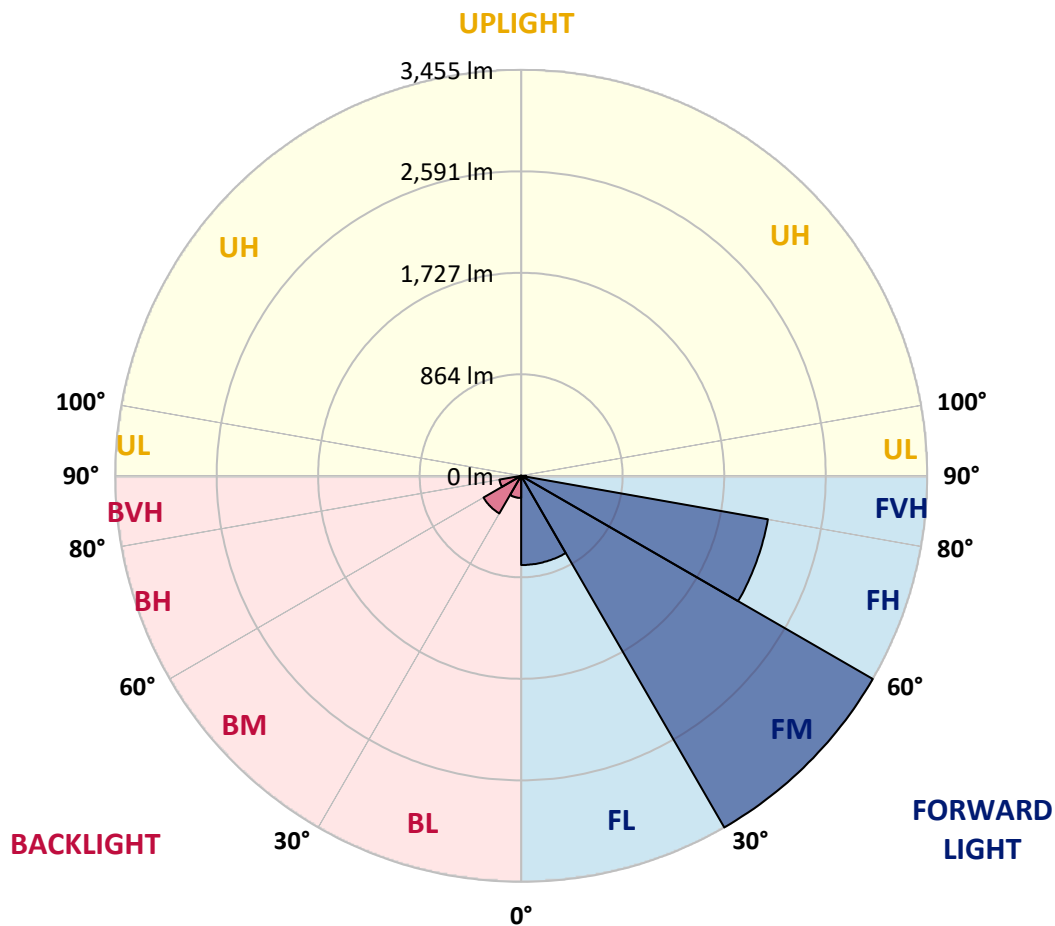
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	759.1	10.6			
FM	(30°-60°)	3454.9	48.4			
FH	(60°-80°)	2131.8	29.8			G2/5000
FVH	(80°-90°)	42.6	0.6			G1/100
BL	(0°-30°)	188.7	2.6	B1/500		
BM	(30°-60°)	369.6	5.2	B1/1000		
BH	(60°-80°)	188.2	2.6	B1/500		G1/500
BVH	(80°-90°)	9.2	0.1			G0/10
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°	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5
2.5°	1104.3	1113.3	1117.8	1119.3	1084.8	1069.8	1054.8	1020.4	1012.9	993.4	967.9
5°	1299.1	1311.1	1308.1	1302.1	1260.1	1212.2	1173.2	1108.8	1098.3	1051.9	994.9
7.5°	1490.9	1501.4	1498.4	1475.9	1429.4	1362.0	1297.6	1203.2	1188.2	1113.3	1021.9
10°	1651.2	1660.2	1658.7	1636.2	1580.8	1498.4	1420.5	1294.6	1276.6	1170.2	1044.4
12.5°	1783.1	1795.0	1793.5	1778.6	1729.1	1639.2	1550.8	1399.5	1377.0	1239.1	1075.8
15°	1886.4	1901.4	1901.4	1895.4	1861.0	1786.1	1685.7	1514.8	1487.9	1318.6	1114.8
17.5°	1949.4	1961.4	1971.9	1982.3	1958.4	1901.4	1810.0	1630.2	1601.8	1396.5	1155.2
20°	1982.3	1994.3	2001.8	2024.3	2028.8	2000.3	1928.4	1744.1	1714.1	1484.9	1201.7
22.5°	2036.3	2046.8	2048.3	2067.7	2076.7	2084.2	2039.3	1856.5	1832.5	1582.3	1254.1
25°	2126.2	2138.2	2133.7	2142.7	2144.2	2153.2	2148.7	1985.3	1961.4	1693.2	1317.1
27.5°	2241.6	2256.5	2253.5	2244.6	2231.1	2223.6	2243.1	2115.7	2093.2	1804.0	1381.5
30°	2365.9	2383.9	2379.4	2361.4	2325.5	2294.0	2321.0	2238.6	2217.6	1917.9	1453.4
32.5°	2491.8	2512.8	2511.3	2481.3	2419.9	2365.9	2406.4	2353.9	2338.9	2040.8	1531.3
35°	2574.2	2601.2	2598.2	2580.2	2500.8	2454.3	2503.8	2472.3	2461.8	2190.6	1643.7
37.5°	2707.5	2736.0	2710.5	2665.6	2574.2	2550.2	2610.2	2605.7	2598.2	2349.4	1762.1
40°	3031.2	3073.1	3005.7	2821.4	2671.6	2650.6	2736.0	2754.0	2746.5	2506.8	1868.5
42.5°	3369.8	3432.8	3327.9	3073.1	2848.4	2772.0	2873.9	2899.3	2890.3	2641.6	1964.4
45°	3575.1	3602.1	3497.2	3299.4	3161.6	2918.8	3020.7	3062.7	3055.2	2803.4	2087.2
47.5°	3742.9	3732.4	3612.6	3479.2	3504.7	3125.6	3187.0	3269.4	3263.4	2981.7	2222.1
50°	3778.9	3754.9	3707.0	3623.0	3690.5	3335.4	3362.3	3504.7	3498.7	3179.5	2358.4
52.5°	3525.7	3494.2	3624.5	3695.0	3672.5	3488.2	3555.6	3762.4	3759.4	3393.8	2488.8
55°	2893.3	2867.9	3218.5	3582.6	3653.0	3596.1	3769.9	4030.6	4047.1	3621.6	2607.2
57.5°	2276.0	2249.0	2593.7	3300.9	3581.1	3695.0	4020.1	4337.8	4358.7	3868.8	2719.5
60°	1814.5	1774.1	2037.8	2857.4	3446.2	3771.4	4261.4	4674.9	4677.9	4095.0	2788.5
62.5°	1233.2	1188.2	1480.4	2295.5	3220.0	3783.4	4447.2	4965.6	4977.6	4264.4	2800.4
65°	749.2	711.7	909.5	1676.7	2885.9	3681.5	4450.1	5179.9	5190.3	4342.3	2728.5
67.5°	434.5	419.5	519.9	1044.4	2331.5	3407.3	4262.9	5146.9	5166.4	4309.3	2565.2
70°	253.2	251.7	289.2	516.9	1645.2	2863.4	3844.8	4869.7	4898.2	4137.0	2315.0
72.5°	185.8	188.8	203.8	277.2	953.0	2061.8	3256.0	4312.3	4355.8	3799.9	1958.4
75°	146.8	148.3	161.8	188.8	500.5	1165.7	2439.3	3461.2	3495.7	3199.0	1529.8
77.5°	109.4	112.4	122.9	133.4	232.2	534.9	1372.5	2132.2	2075.2	1756.1	738.7
80°	79.4	86.9	91.4	95.9	122.9	206.8	412.1	743.2	737.2	767.2	349.1
82.5°	50.9	56.9	61.4	64.4	73.4	98.9	122.9	166.3	179.8	298.2	139.3
85°	22.5	25.5	28.5	34.5	31.5	34.5	50.9	33.0	28.5	45.0	25.5
87.5°	0.0	0.0	4.5	7.5	6.0	3.0	9.0	6.0	4.5	4.5	4.5
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°	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5
2.5°	954.5	938.0	903.5	870.6	851.1	825.6	803.1	782.1	780.6	774.7	764.2
5°	966.4	935.0	870.6	809.1	762.7	713.2	671.3	638.3	626.3	617.3	605.3
7.5°	978.4	929.0	833.1	743.2	669.8	600.8	551.4	506.4	493.0	481.0	473.5
10°	982.9	918.5	789.6	669.8	573.9	500.5	448.0	415.0	403.1	397.1	392.6
12.5°	996.4	912.5	749.2	600.8	490.0	422.5	385.1	365.6	361.1	356.6	352.1
15°	1014.4	912.5	708.7	533.4	424.0	370.1	347.6	334.1	331.1	329.6	326.6
17.5°	1033.9	912.5	669.8	476.5	376.1	335.6	319.2	311.7	310.2	308.7	307.2
20°	1060.8	914.0	627.8	427.0	341.6	310.2	296.7	287.7	286.2	284.7	284.7
22.5°	1087.8	917.0	587.4	389.6	319.2	290.7	274.2	265.2	262.2	262.2	262.2
25°	1122.3	926.0	549.9	358.1	299.7	272.7	251.7	244.2	242.7	242.7	241.2
27.5°	1162.7	936.5	516.9	334.1	280.2	251.7	230.7	223.3	220.3	220.3	218.8
30°	1206.2	947.0	490.0	316.2	260.7	230.7	211.3	202.3	199.3	200.8	199.3
32.5°	1254.1	962.0	469.0	304.2	242.7	212.8	194.8	184.3	182.8	182.8	181.3
35°	1335.0	1003.9	466.0	298.2	227.8	199.3	181.3	170.8	169.3	169.3	167.8
37.5°	1421.9	1051.9	479.5	295.2	215.8	187.3	170.8	160.3	158.8	158.8	158.8
40°	1495.4	1087.8	494.5	295.2	208.3	176.8	161.8	152.8	152.8	152.8	152.8
42.5°	1544.8	1090.8	491.5	295.2	202.3	169.3	155.8	146.8	146.8	148.3	146.8
45°	1618.2	1105.8	479.5	290.7	197.8	163.3	149.8	142.3	140.8	142.3	142.3
47.5°	1705.1	1132.8	467.5	272.7	196.3	157.3	145.3	136.4	134.9	136.4	134.9
50°	1787.6	1156.7	461.5	248.7	193.3	151.3	139.3	130.4	128.9	130.4	128.9
52.5°	1856.5	1167.2	451.0	232.2	185.8	145.3	133.4	124.4	121.4	122.9	122.9
55°	1911.9	1164.2	436.0	218.8	172.3	139.3	125.9	118.4	113.9	113.9	112.4
57.5°	1962.9	1165.7	422.5	205.3	157.3	130.4	119.9	110.9	104.9	103.4	101.9
60°	1982.3	1158.2	398.6	187.3	142.3	122.9	112.4	101.9	95.9	94.4	92.9
62.5°	1955.4	1131.3	367.1	155.8	128.9	113.9	104.9	94.4	88.4	86.9	85.4
65°	1879.0	1080.3	319.2	122.9	116.9	103.4	95.9	88.4	80.9	77.9	76.4
67.5°	1748.6	1006.9	259.2	98.9	103.4	94.4	89.9	80.9	71.9	68.9	67.4
70°	1562.8	909.5	194.8	83.9	91.4	83.9	80.9	71.9	64.4	61.4	59.9
72.5°	1302.1	752.2	136.4	71.9	79.4	73.4	70.4	64.4	56.9	52.4	52.4
75°	984.4	539.4	89.9	61.4	65.9	62.9	58.4	53.9	49.4	46.4	45.0
77.5°	424.0	209.8	55.4	46.4	53.9	52.4	46.4	43.5	42.0	39.0	39.0
80°	182.8	85.4	34.5	34.5	39.0	37.5	36.0	33.0	33.0	31.5	30.0
82.5°	67.4	34.5	21.0	25.5	28.5	25.5	25.5	25.5	25.5	24.0	24.0
85°	16.5	10.5	10.5	15.0	16.5	15.0	16.5	15.0	15.0	15.0	13.5
87.5°	4.5	4.5	6.0	6.0	6.0	6.0	6.0	4.5	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)