

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: P799990

Luminaire Tested: **ARCH2-70-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6065 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.6
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

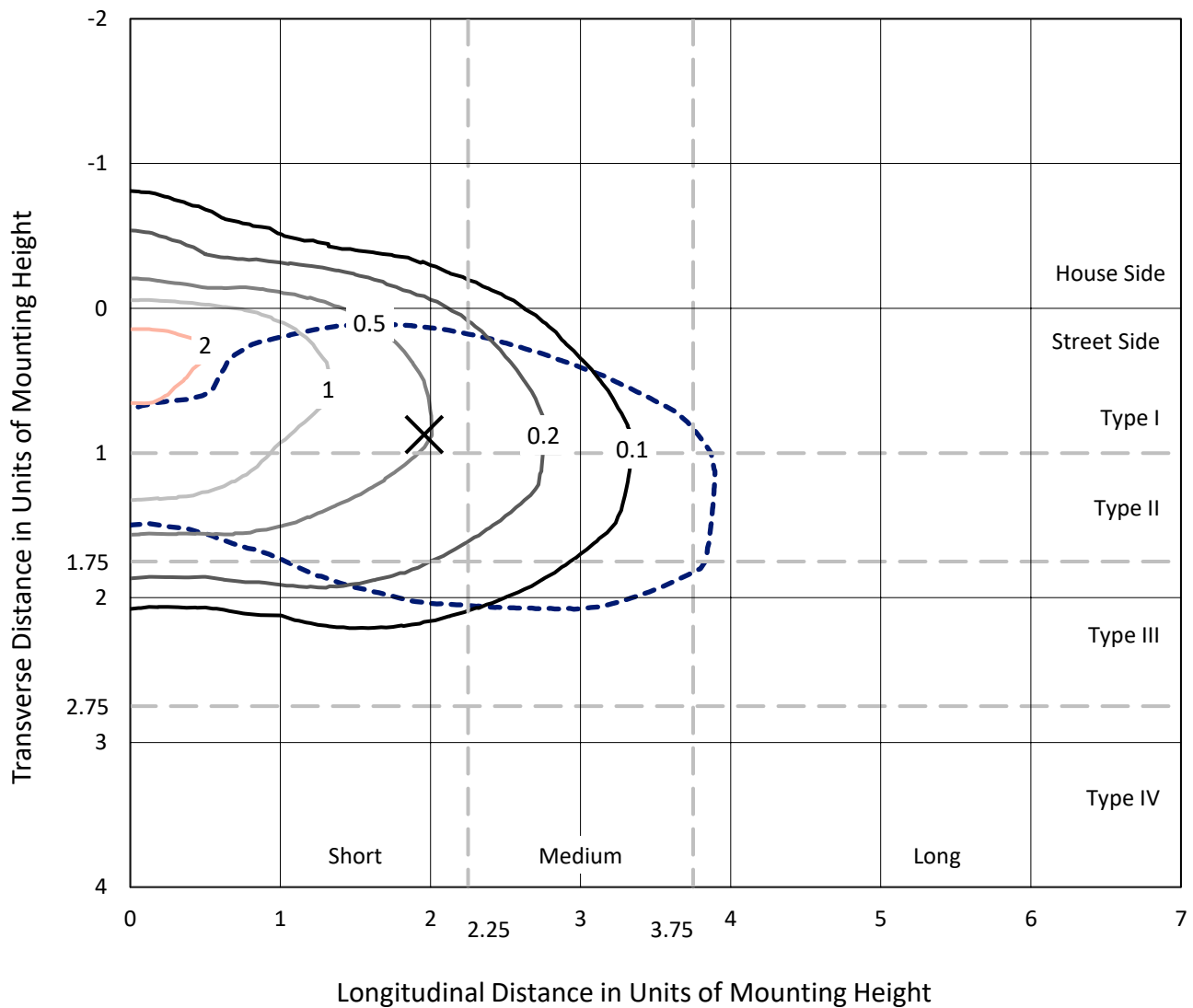


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

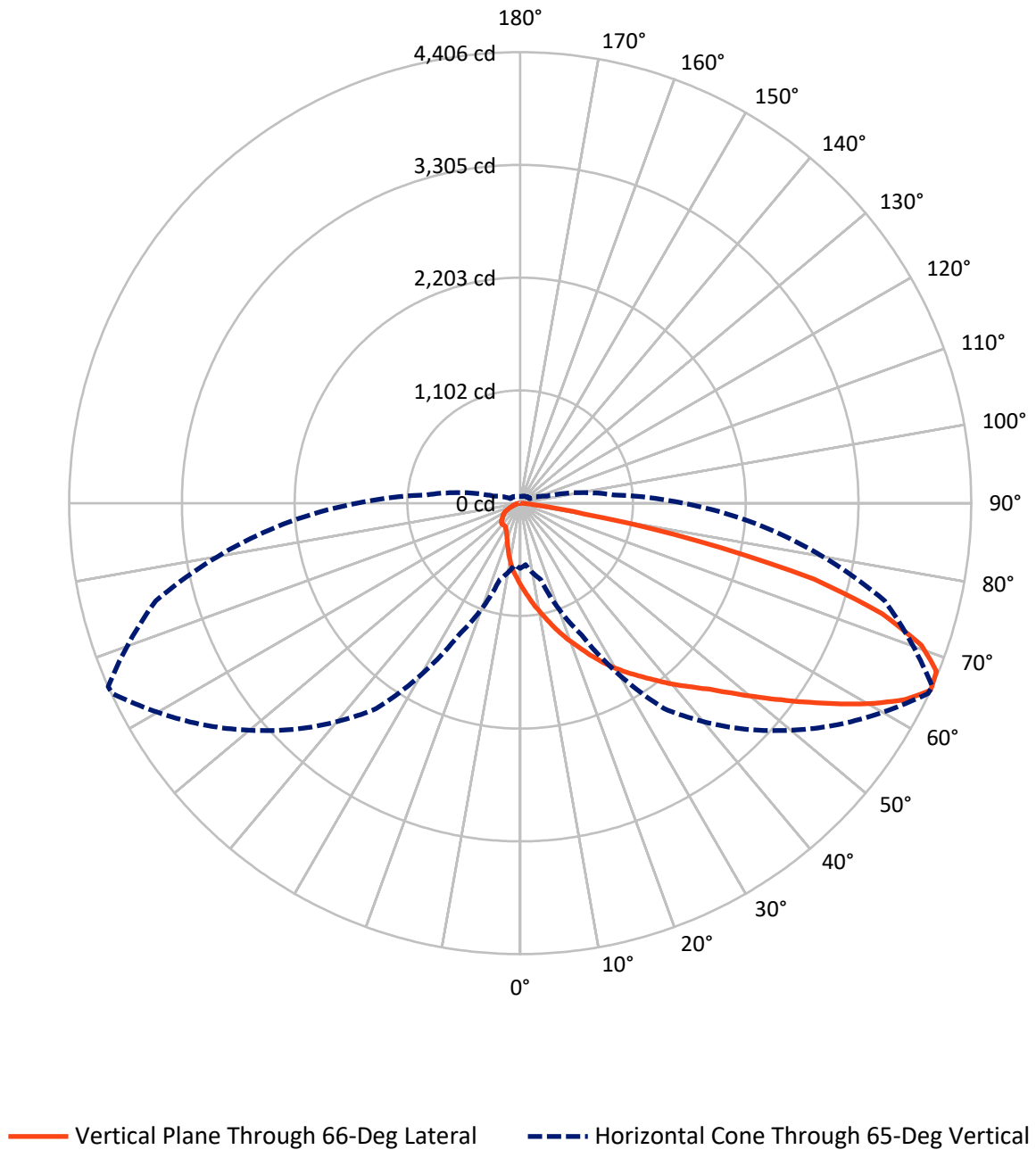


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	641.5	0.0	641.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5423.5	0.0	5423.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	6065.0	0.0	6065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	1.3
10°-20°	258.2	4.3
20°-30°	467.2	7.7
30°-40°	730.6	12.0
40°-50°	1108.2	18.3
50°-60°	1408.1	23.2
60°-70°	1315.7	21.7
70°-80°	653.9	10.8
80°-90°	43.9	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°	6065.0	100.0
0°-180°	6065.0	100.0

Coefficient of Utilization



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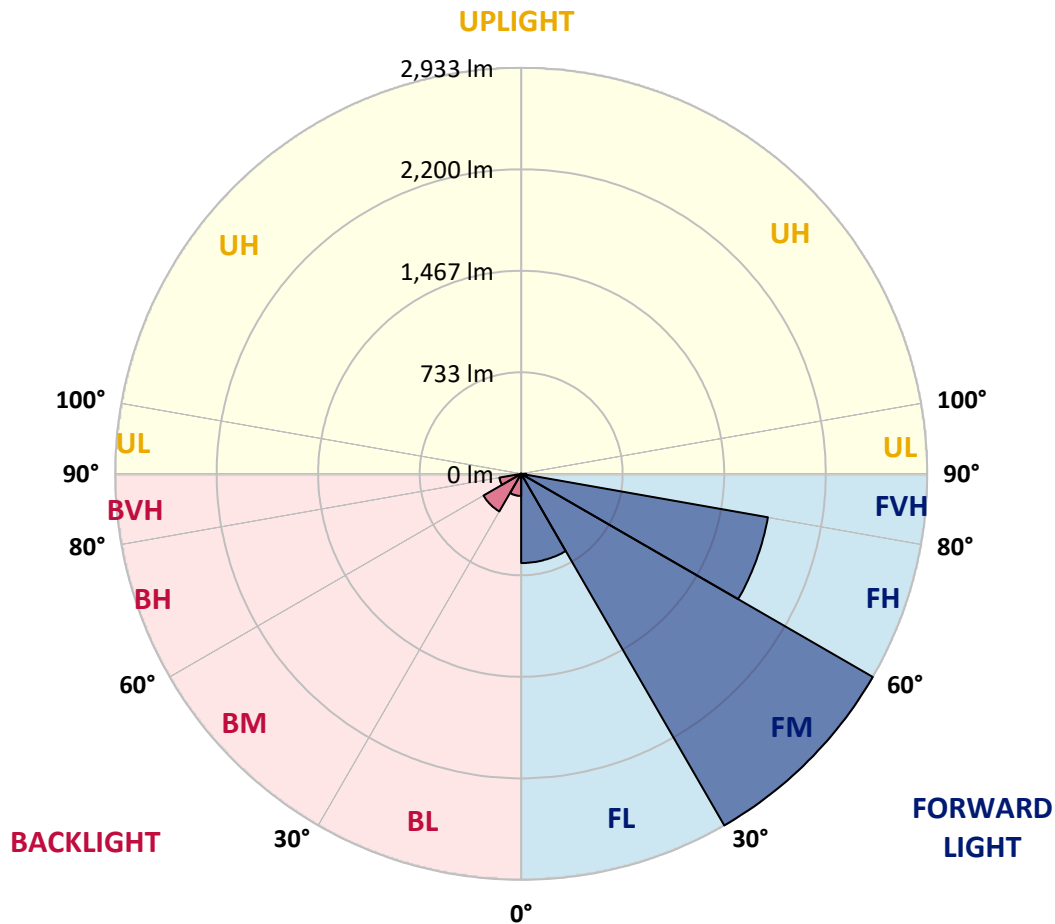
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	644.4	10.6			
FM	(30°-60°)	2933.1	48.4			
FH	(60°-80°)	1809.8	29.8			G2/5000
FVH	(80°-90°)	36.2	0.6			G1/100
BL	(0°-30°)	160.2	2.6	B1/500		
BM	(30°-60°)	313.8	5.2	B1/1000		
BH	(60°-80°)	159.8	2.6	B1/500		G1/500
BVH	(80°-90°)	7.8	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°	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7
2.5°	937.5	945.1	949.0	950.2	921.0	908.3	895.5	866.3	859.9	843.4	821.8
5°	1102.9	1113.1	1110.5	1105.4	1069.8	1029.1	996.0	941.3	932.4	893.0	844.6
7.5°	1265.7	1274.6	1272.1	1253.0	1213.5	1156.3	1101.6	1021.5	1008.7	945.1	867.5
10°	1401.8	1409.4	1408.2	1389.1	1342.0	1272.1	1205.9	1099.1	1083.8	993.5	886.6
12.5°	1513.8	1523.9	1522.7	1509.9	1468.0	1391.6	1316.6	1188.1	1169.0	1052.0	913.3
15°	1601.5	1614.2	1614.2	1609.2	1579.9	1516.3	1431.1	1286.1	1263.2	1119.4	946.4
17.5°	1654.9	1665.1	1674.0	1682.9	1662.6	1614.2	1536.6	1384.0	1359.8	1185.6	980.8
20°	1682.9	1693.1	1699.5	1718.6	1722.4	1698.2	1637.1	1480.7	1455.2	1260.6	1020.2
22.5°	1728.7	1737.6	1738.9	1755.4	1763.1	1769.4	1731.3	1576.1	1555.7	1343.3	1064.7
25°	1805.1	1815.2	1811.4	1819.0	1820.3	1827.9	1824.1	1685.5	1665.1	1437.4	1118.1
27.5°	1903.0	1915.7	1913.2	1905.5	1894.1	1887.7	1904.3	1796.1	1777.1	1531.6	1172.8
30°	2008.6	2023.8	2020.0	2004.8	1974.2	1947.5	1970.4	1900.5	1882.6	1628.2	1233.9
32.5°	2115.4	2133.2	2132.0	2106.5	2054.4	2008.6	2042.9	1998.4	1985.7	1732.5	1300.0
35°	2185.4	2208.3	2205.8	2190.5	2123.1	2083.6	2125.6	2098.9	2090.0	1859.8	1395.4
37.5°	2298.6	2322.8	2301.2	2263.0	2185.4	2165.0	2215.9	2212.1	2205.8	1994.6	1495.9
40°	2573.4	2609.0	2551.8	2395.3	2268.1	2250.3	2322.8	2338.0	2331.7	2128.2	1586.3
42.5°	2860.9	2914.3	2825.2	2609.0	2418.2	2353.3	2439.8	2461.4	2453.8	2242.6	1667.7
45°	3035.1	3058.0	2969.0	2801.1	2684.0	2478.0	2564.5	2600.1	2593.7	2380.0	1772.0
47.5°	3177.6	3168.7	3066.9	2953.7	2975.3	2653.5	2705.7	2775.6	2770.5	2531.4	1886.5
50°	3208.1	3187.8	3147.1	3075.8	3133.1	2831.6	2854.5	2975.3	2970.3	2699.3	2002.2
52.5°	2993.2	2966.4	3077.1	3136.9	3117.8	2961.4	3018.6	3194.1	3191.6	2881.2	2112.9
55°	2456.3	2434.7	2732.4	3041.5	3101.3	3052.9	3200.5	3421.8	3435.8	3074.6	2213.4
57.5°	1932.3	1909.4	2201.9	2802.3	3040.2	3136.9	3412.9	3682.6	3700.4	3284.5	2308.8
60°	1540.5	1506.1	1730.0	2425.8	2925.7	3201.8	3617.7	3968.8	3971.4	3476.5	2367.3
62.5°	1046.9	1008.7	1256.8	1948.8	2733.7	3211.9	3775.5	4215.6	4225.8	3620.3	2377.5
65°	636.0	604.2	772.1	1423.4	2450.0	3125.4	3778.0	4397.5	4406.4	3686.4	2316.4
67.5°	368.9	356.2	441.4	886.6	1979.3	2892.7	3619.0	4369.5	4386.1	3658.4	2177.8
70°	215.0	213.7	245.5	438.9	1396.7	2430.9	3264.1	4134.2	4158.4	3512.2	1965.3
72.5°	157.7	160.3	173.0	235.3	809.0	1750.4	2764.2	3661.0	3697.9	3225.9	1662.6
75°	124.7	125.9	137.4	160.3	424.9	989.7	2070.9	2938.5	2967.7	2715.8	1298.8
77.5°	92.9	95.4	104.3	113.2	197.2	454.1	1165.2	1810.1	1761.8	1490.9	627.1
80°	67.4	73.8	77.6	81.4	104.3	175.5	349.8	630.9	625.9	651.3	296.4
82.5°	43.3	48.3	52.2	54.7	62.3	84.0	104.3	141.2	152.6	253.1	118.3
85°	19.1	21.6	24.2	29.3	26.7	29.3	43.3	28.0	24.2	38.2	21.6
87.5°	0.0	0.0	3.8	6.4	5.1	2.5	7.6	5.1	3.8	3.8	3.8
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°	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7	802.7
2.5°	810.3	796.3	767.1	739.1	722.5	700.9	681.8	664.0	662.7	657.7	648.8
5°	820.5	793.8	739.1	686.9	647.5	605.5	569.9	541.9	531.7	524.1	513.9
7.5°	830.7	788.7	707.3	630.9	568.6	510.1	468.1	430.0	418.5	408.3	402.0
10°	834.5	779.8	670.4	568.6	487.2	424.9	380.3	352.4	342.2	337.1	333.3
12.5°	845.9	774.7	636.0	510.1	416.0	358.7	326.9	310.4	306.6	302.8	298.9
15°	861.2	774.7	601.7	452.9	360.0	314.2	295.1	283.7	281.1	279.9	277.3
17.5°	877.7	774.7	568.6	404.5	319.3	284.9	270.9	264.6	263.3	262.0	260.8
20°	900.6	776.0	533.0	362.5	290.0	263.3	251.9	244.2	243.0	241.7	241.7
22.5°	923.5	778.5	498.6	330.7	270.9	246.8	232.8	225.2	222.6	222.6	222.6
25°	952.8	786.1	466.8	304.0	254.4	231.5	213.7	207.3	206.1	206.1	204.8
27.5°	987.1	795.0	438.9	283.7	237.9	213.7	195.9	189.5	187.0	187.0	185.7
30°	1024.0	803.9	416.0	268.4	221.3	195.9	179.4	171.7	169.2	170.5	169.2
32.5°	1064.7	816.7	398.2	258.2	206.1	180.6	165.4	156.5	155.2	155.2	153.9
35°	1133.4	852.3	395.6	253.1	193.4	169.2	153.9	145.0	143.7	143.7	142.5
37.5°	1207.2	893.0	407.1	250.6	183.2	159.0	145.0	136.1	134.8	134.8	134.8
40°	1269.5	923.5	419.8	250.6	176.8	150.1	137.4	129.8	129.8	129.8	129.8
42.5°	1311.5	926.1	417.2	250.6	171.7	143.7	132.3	124.7	124.7	125.9	124.7
45°	1373.8	938.8	407.1	246.8	167.9	138.7	127.2	120.8	119.6	120.8	120.8
47.5°	1447.6	961.7	396.9	231.5	166.6	133.6	123.4	115.8	114.5	115.8	114.5
50°	1517.6	982.0	391.8	211.2	164.1	128.5	118.3	110.7	109.4	110.7	109.4
52.5°	1576.1	990.9	382.9	197.2	157.7	123.4	113.2	105.6	103.0	104.3	104.3
55°	1623.1	988.4	370.2	185.7	146.3	118.3	106.9	100.5	96.7	96.7	95.4
57.5°	1666.4	989.7	358.7	174.3	133.6	110.7	101.8	94.1	89.0	87.8	86.5
60°	1682.9	983.3	338.4	159.0	120.8	104.3	95.4	86.5	81.4	80.1	78.9
62.5°	1660.0	960.4	311.7	132.3	109.4	96.7	89.0	80.1	75.1	73.8	72.5
65°	1595.2	917.2	270.9	104.3	99.2	87.8	81.4	75.1	68.7	66.1	64.9
67.5°	1484.5	854.8	220.1	84.0	87.8	80.1	76.3	68.7	61.1	58.5	57.2
70°	1326.8	772.1	165.4	71.2	77.6	71.2	68.7	61.1	54.7	52.2	50.9
72.5°	1105.4	638.6	115.8	61.1	67.4	62.3	59.8	54.7	48.3	44.5	44.5
75°	835.7	457.9	76.3	52.2	56.0	53.4	49.6	45.8	42.0	39.4	38.2
77.5°	360.0	178.1	47.1	39.4	45.8	44.5	39.4	36.9	35.6	33.1	33.1
80°	155.2	72.5	29.3	29.3	33.1	31.8	30.5	28.0	28.0	26.7	25.4
82.5°	57.2	29.3	17.8	21.6	24.2	21.6	21.6	21.6	21.6	20.4	20.4
85°	14.0	8.9	8.9	12.7	14.0	12.7	14.0	12.7	12.7	12.7	11.4
87.5°	3.8	3.8	5.1	5.1	5.1	5.1	5.1	3.8	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)