

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: P800022

Luminaire Tested: **ARCH2-70-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800022
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: ARCH2-70-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 6932 lumens
Efficiency: N/A
Efficacy: 94.2 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

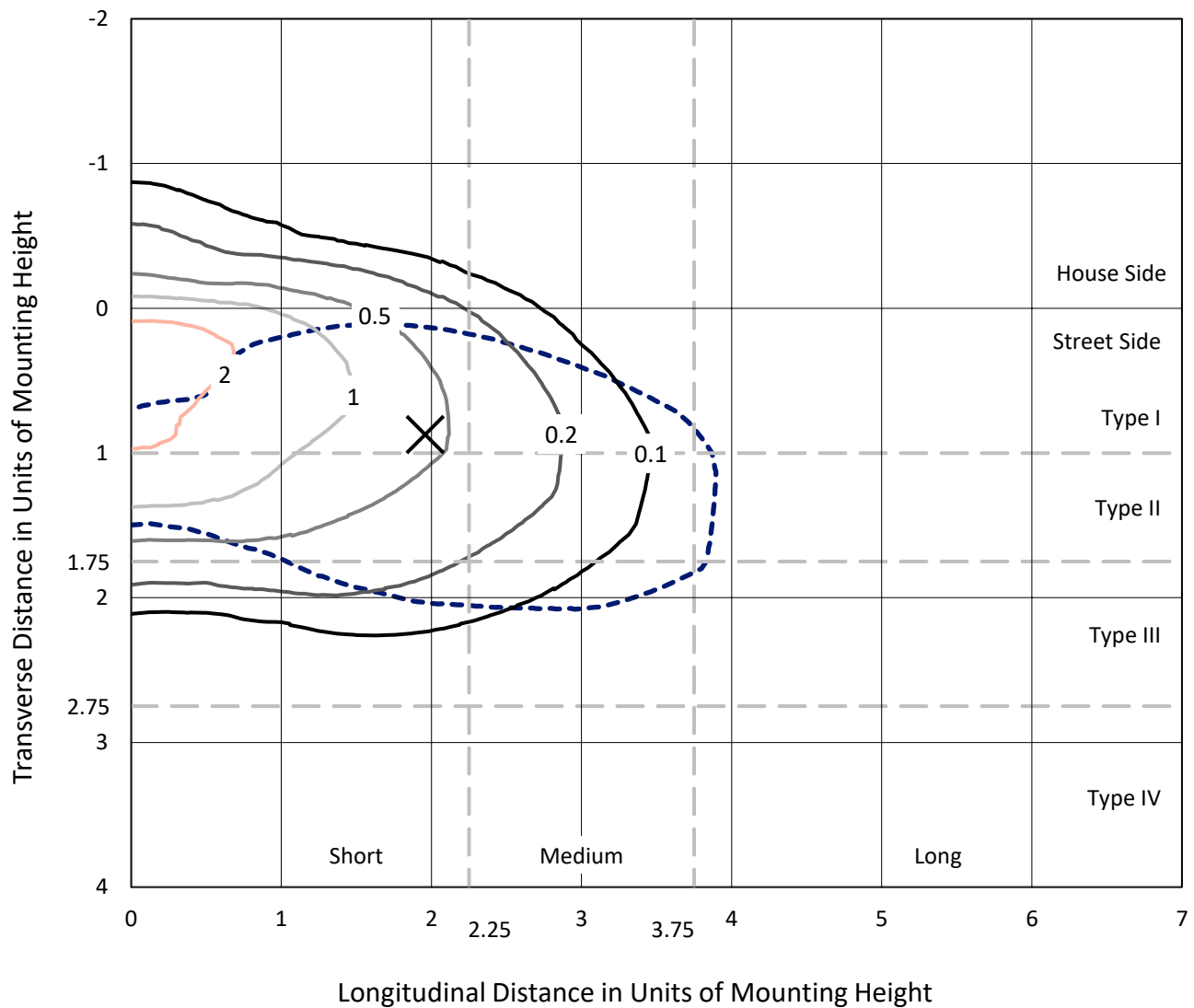


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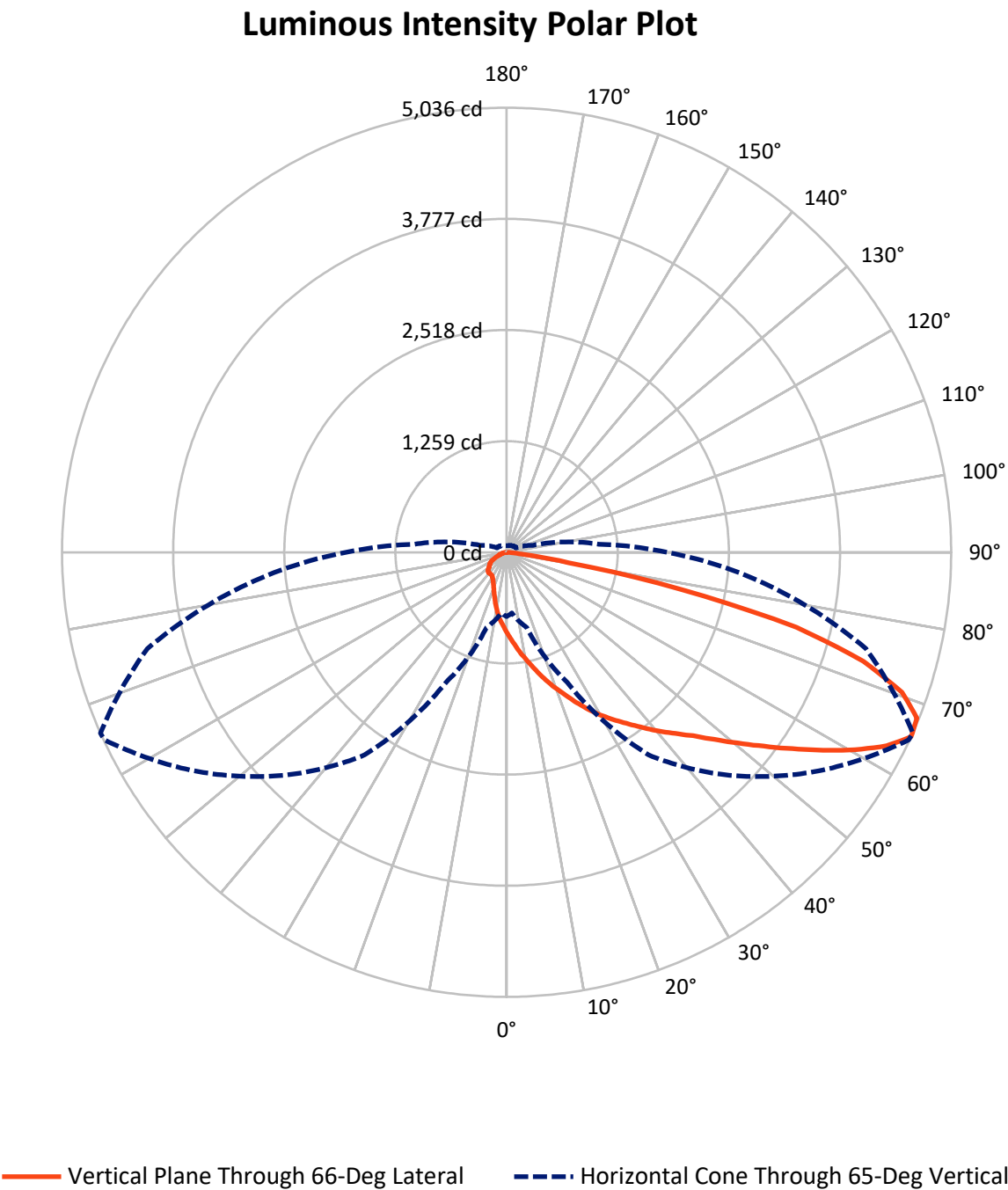
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	733.2	0.0	733.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6198.8	0.0	6198.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	6932.0	0.0	6932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.3
10°-20°	295.1	4.3
20°-30°	534.0	7.7
30°-40°	835.0	12.0
40°-50°	1266.7	18.3
50°-60°	1609.3	23.2
60°-70°	1503.8	21.7
70°-80°	747.4	10.8
80°-90°	50.2	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°	6932.0	100.0
0°-180°	6932.0	100.0

Coefficient of Utilization



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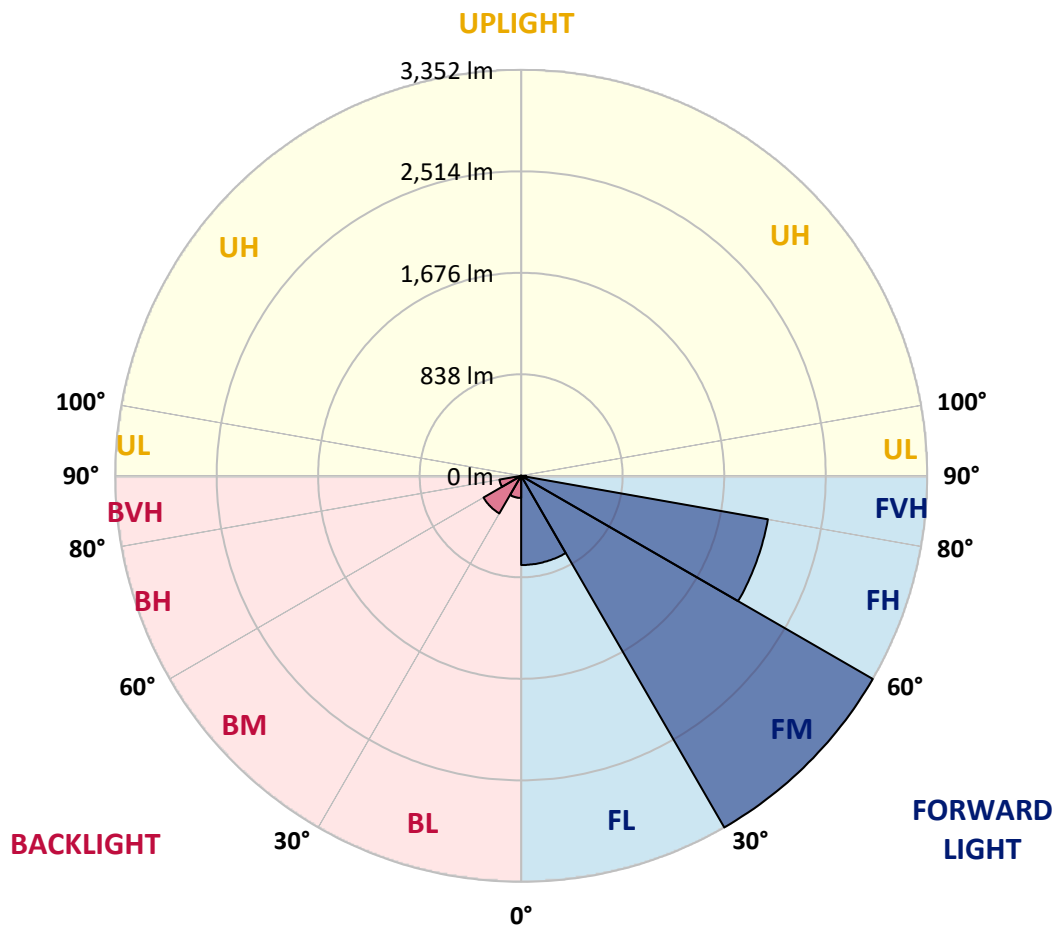
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	736.5	10.6			
FM	(30°-60°)	3352.4	48.4			
FH	(60°-80°)	2068.5	29.8			G2/5000
FVH	(80°-90°)	41.3	0.6			G1/100
BL	(0°-30°)	183.1	2.6	B1/500		
BM	(30°-60°)	358.6	5.2	B1/1000		
BH	(60°-80°)	182.6	2.6	B1/500		G1/500
BVH	(80°-90°)	8.9	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°	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4
2.5°	1071.5	1080.2	1084.6	1086.1	1052.6	1038.1	1023.5	990.1	982.8	963.9	939.2
5°	1260.5	1272.2	1269.3	1263.4	1222.7	1176.2	1138.4	1075.9	1065.7	1020.6	965.4
7.5°	1446.6	1456.8	1453.9	1432.1	1387.0	1321.6	1259.1	1167.5	1152.9	1080.2	991.6
10°	1602.2	1610.9	1609.5	1587.7	1533.9	1453.9	1378.3	1256.2	1238.7	1135.5	1013.4
12.5°	1730.1	1741.8	1740.3	1725.8	1677.8	1590.6	1504.8	1357.9	1336.1	1202.4	1043.9
15°	1830.5	1845.0	1845.0	1839.2	1805.7	1733.1	1635.6	1469.9	1443.7	1279.4	1081.7
17.5°	1891.5	1903.2	1913.3	1923.5	1900.2	1845.0	1756.3	1581.8	1554.2	1355.0	1121.0
20°	1923.5	1935.1	1942.4	1964.2	1968.6	1941.0	1871.2	1692.3	1663.3	1440.8	1166.0
22.5°	1975.9	1986.0	1987.5	2006.4	2015.1	2022.4	1978.8	1801.4	1778.1	1535.3	1216.9
25°	2063.1	2074.7	2070.4	2079.1	2080.5	2089.3	2084.9	1926.4	1903.2	1642.9	1278.0
27.5°	2175.0	2189.6	2186.7	2177.9	2164.9	2157.6	2176.5	2052.9	2031.1	1750.5	1340.5
30°	2295.7	2313.2	2308.8	2291.3	2256.5	2225.9	2252.1	2172.1	2151.8	1861.0	1410.3
32.5°	2417.8	2438.2	2436.7	2407.7	2348.1	2295.7	2335.0	2284.1	2269.5	1980.2	1485.9
35°	2497.8	2524.0	2521.1	2503.6	2426.6	2381.5	2429.5	2398.9	2388.8	2125.6	1594.9
37.5°	2627.2	2654.8	2630.1	2586.5	2497.8	2474.5	2532.7	2528.3	2521.1	2279.7	1709.8
40°	2941.2	2982.0	2916.5	2737.7	2592.3	2572.0	2654.8	2672.3	2665.0	2432.4	1813.0
42.5°	3269.8	3330.9	3229.1	2982.0	2763.9	2689.7	2788.6	2813.3	2804.6	2563.2	1906.1
45°	3469.0	3495.2	3393.4	3201.5	3067.7	2832.2	2931.1	2971.8	2964.5	2720.3	2025.3
47.5°	3631.8	3621.7	3505.4	3376.0	3400.7	3032.8	3092.4	3172.4	3166.6	2893.3	2156.1
50°	3666.7	3643.5	3597.0	3515.5	3581.0	3236.4	3262.6	3400.7	3394.9	3085.2	2288.4
52.5°	3421.0	3390.5	3517.0	3585.3	3563.5	3384.7	3450.1	3650.7	3647.8	3293.1	2414.9
55°	2807.5	2782.8	3123.0	3476.3	3544.6	3489.4	3658.0	3911.0	3927.0	3514.1	2529.8
57.5°	2208.5	2182.3	2516.7	3202.9	3474.8	3585.3	3900.8	4209.0	4229.4	3754.0	2638.8
60°	1760.7	1721.4	1977.3	2772.6	3344.0	3659.5	4134.9	4536.2	4539.1	3973.5	2705.7
62.5°	1196.6	1152.9	1436.5	2227.4	3124.4	3671.1	4315.2	4818.2	4829.9	4137.8	2717.3
65°	727.0	690.6	882.5	1626.9	2800.2	3572.2	4318.1	5026.1	5036.3	4213.4	2647.6
67.5°	421.6	407.1	504.5	1013.4	2262.3	3306.2	4136.4	4994.2	5013.1	4181.4	2489.1
70°	245.7	244.3	280.6	501.6	1596.4	2778.4	3730.7	4725.2	4752.8	4014.2	2246.3
72.5°	180.3	183.2	197.7	269.0	924.7	2000.6	3159.3	4184.3	4226.5	3687.1	1900.2
75°	142.5	143.9	157.0	183.2	485.6	1131.1	2367.0	3358.5	3392.0	3104.1	1484.4
77.5°	106.1	109.0	119.2	129.4	225.4	519.0	1331.8	2068.9	2013.7	1704.0	716.8
80°	77.1	84.3	88.7	93.0	119.2	200.6	399.8	721.1	715.3	744.4	338.8
82.5°	49.4	55.2	59.6	62.5	71.2	96.0	119.2	161.4	174.5	289.3	135.2
85°	21.8	24.7	27.6	33.4	30.5	33.4	49.4	32.0	27.6	43.6	24.7
87.5°	0.0	0.0	4.4	7.3	5.8	2.9	8.7	5.8	4.4	4.4	4.4
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°	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4	917.4
2.5°	926.1	910.1	876.7	844.7	825.8	801.1	779.3	758.9	757.5	751.7	741.5
5°	937.8	907.2	844.7	785.1	740.0	692.1	651.3	619.4	607.7	599.0	587.4
7.5°	949.4	901.4	808.4	721.1	649.9	583.0	535.0	491.4	478.3	466.7	459.4
10°	953.8	891.2	766.2	649.9	556.8	485.6	434.7	402.7	391.1	385.3	380.9
12.5°	966.8	885.4	727.0	583.0	475.4	410.0	373.7	354.8	350.4	346.0	341.7
15°	984.3	885.4	687.7	517.6	411.5	359.1	337.3	324.2	321.3	319.9	317.0
17.5°	1003.2	885.4	649.9	462.3	364.9	325.7	309.7	302.4	301.0	299.5	298.0
20°	1029.4	886.9	609.2	414.4	331.5	301.0	287.9	279.1	277.7	276.2	276.2
22.5°	1055.5	889.8	569.9	378.0	309.7	282.1	266.1	257.3	254.4	254.4	254.4
25°	1089.0	898.5	533.6	347.5	290.8	264.6	244.3	237.0	235.5	235.5	234.1
27.5°	1128.2	908.7	501.6	324.2	271.9	244.3	223.9	216.6	213.7	213.7	212.3
30°	1170.4	918.9	475.4	306.8	253.0	223.9	205.0	196.3	193.4	194.8	193.4
32.5°	1216.9	933.4	455.1	295.1	235.5	206.5	189.0	178.8	177.4	177.4	175.9
35°	1295.4	974.1	452.2	289.3	221.0	193.4	175.9	165.7	164.3	164.3	162.8
37.5°	1379.8	1020.6	465.2	286.4	209.4	181.7	165.7	155.6	154.1	154.1	154.1
40°	1451.0	1055.5	479.8	286.4	202.1	171.6	157.0	148.3	148.3	148.3	148.3
42.5°	1499.0	1058.4	476.9	286.4	196.3	164.3	151.2	142.5	142.5	143.9	142.5
45°	1570.2	1073.0	465.2	282.1	191.9	158.5	145.4	138.1	136.7	138.1	138.1
47.5°	1654.5	1099.1	453.6	264.6	190.5	152.7	141.0	132.3	130.9	132.3	130.9
50°	1734.5	1122.4	447.8	241.3	187.6	146.8	135.2	126.5	125.0	126.5	125.0
52.5°	1801.4	1132.6	437.6	225.4	180.3	141.0	129.4	120.7	117.8	119.2	119.2
55°	1855.2	1129.7	423.1	212.3	167.2	135.2	122.1	114.9	110.5	110.5	109.0
57.5°	1904.6	1131.1	410.0	199.2	152.7	126.5	116.3	107.6	101.8	100.3	98.9
60°	1923.5	1123.9	386.7	181.7	138.1	119.2	109.0	98.9	93.0	91.6	90.1
62.5°	1897.3	1097.7	356.2	151.2	125.0	110.5	101.8	91.6	85.8	84.3	82.9
65°	1823.2	1048.3	309.7	119.2	113.4	100.3	93.0	85.8	78.5	75.6	74.1
67.5°	1696.7	977.0	251.5	96.0	100.3	91.6	87.2	78.5	69.8	66.9	65.4
70°	1516.4	882.5	189.0	81.4	88.7	81.4	78.5	69.8	62.5	59.6	58.2
72.5°	1263.4	729.9	132.3	69.8	77.1	71.2	68.3	62.5	55.2	50.9	50.9
75°	955.2	523.4	87.2	59.6	64.0	61.1	56.7	52.3	48.0	45.1	43.6
77.5°	411.5	203.5	53.8	45.1	52.3	50.9	45.1	42.2	40.7	37.8	37.8
80°	177.4	82.9	33.4	33.4	37.8	36.3	34.9	32.0	32.0	30.5	29.1
82.5°	65.4	33.4	20.4	24.7	27.6	24.7	24.7	24.7	24.7	23.3	23.3
85°	16.0	10.2	10.2	14.5	16.0	14.5	16.0	14.5	14.5	14.5	13.1
87.5°	4.4	4.4	5.8	5.8	5.8	5.8	5.8	4.4	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)