

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: P800118

Luminaire Tested: **ARCH2-80-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800118
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: ARCH2-80-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 630mA 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: 6697 lumens
Efficiency: N/A
Efficacy: 79.4 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): 84.3
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

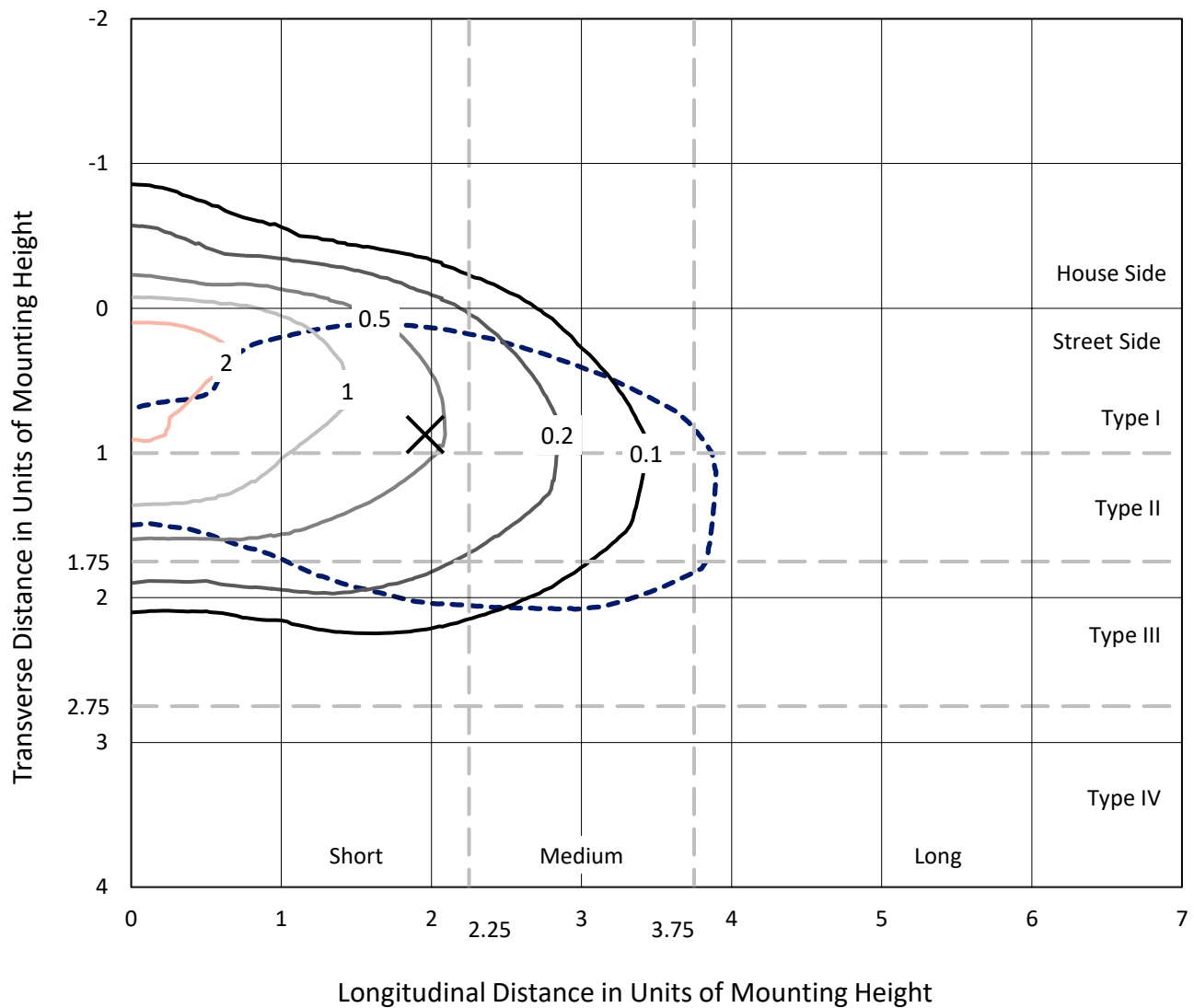


REPORT NUMBER: P800118

CATALOG NUMBER: ARCH2-80-722-U-T3-HSS

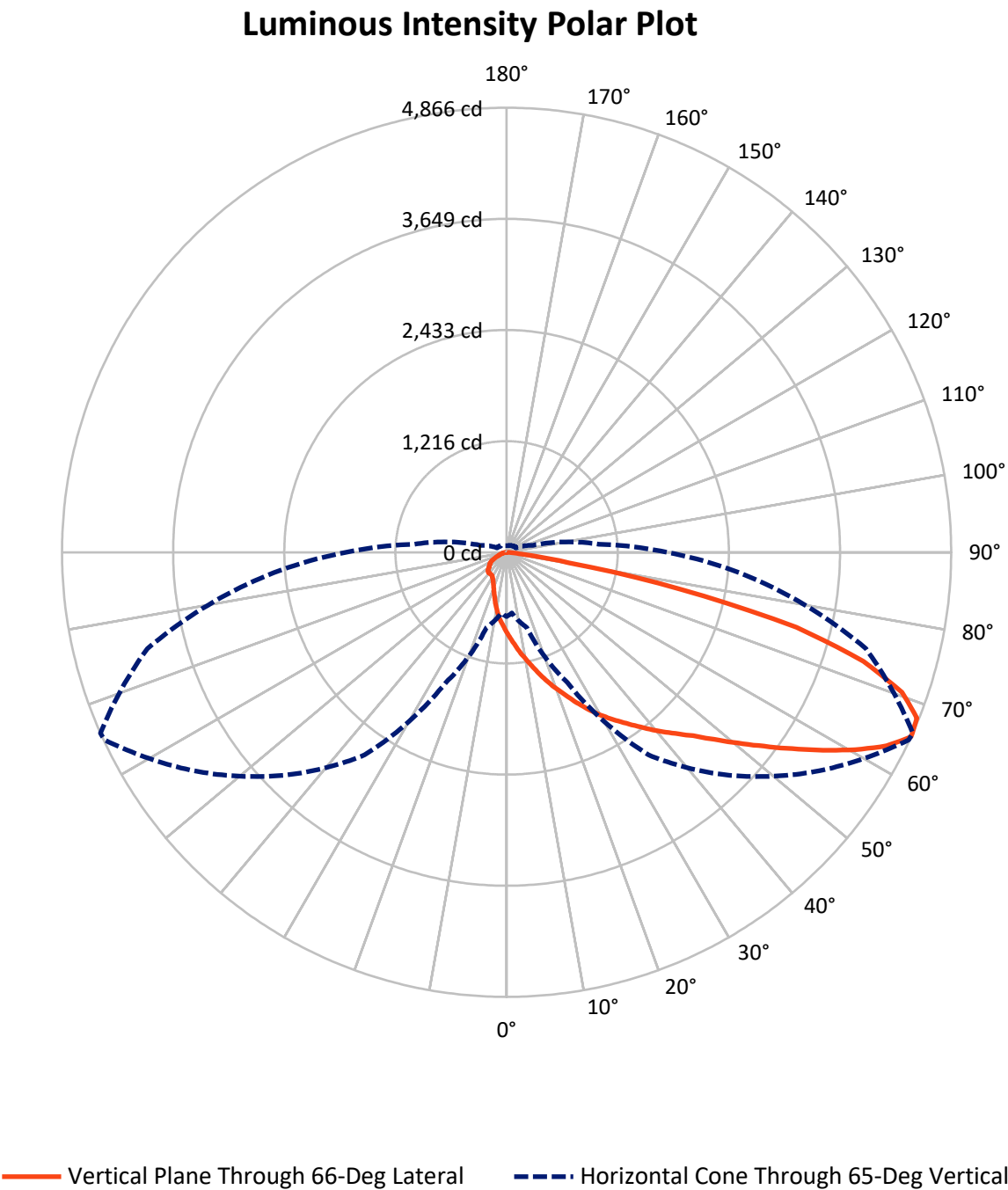
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Short - N/A

REPORT NUMBER: P800118
CATALOG NUMBER: ARCH2-80-722-U-T3-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	708.4	0.0	708.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5988.6	0.0	5988.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	6697.0	0.0	6697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.3
10°-20°	285.1	4.3
20°-30°	515.9	7.7
30°-40°	806.7	12.0
40°-50°	1223.7	18.3
50°-60°	1554.8	23.2
60°-70°	1452.8	21.7
70°-80°	722.0	10.8
80°-90°	48.5	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°	6697.0	100.0
0°-180°	6697.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800118

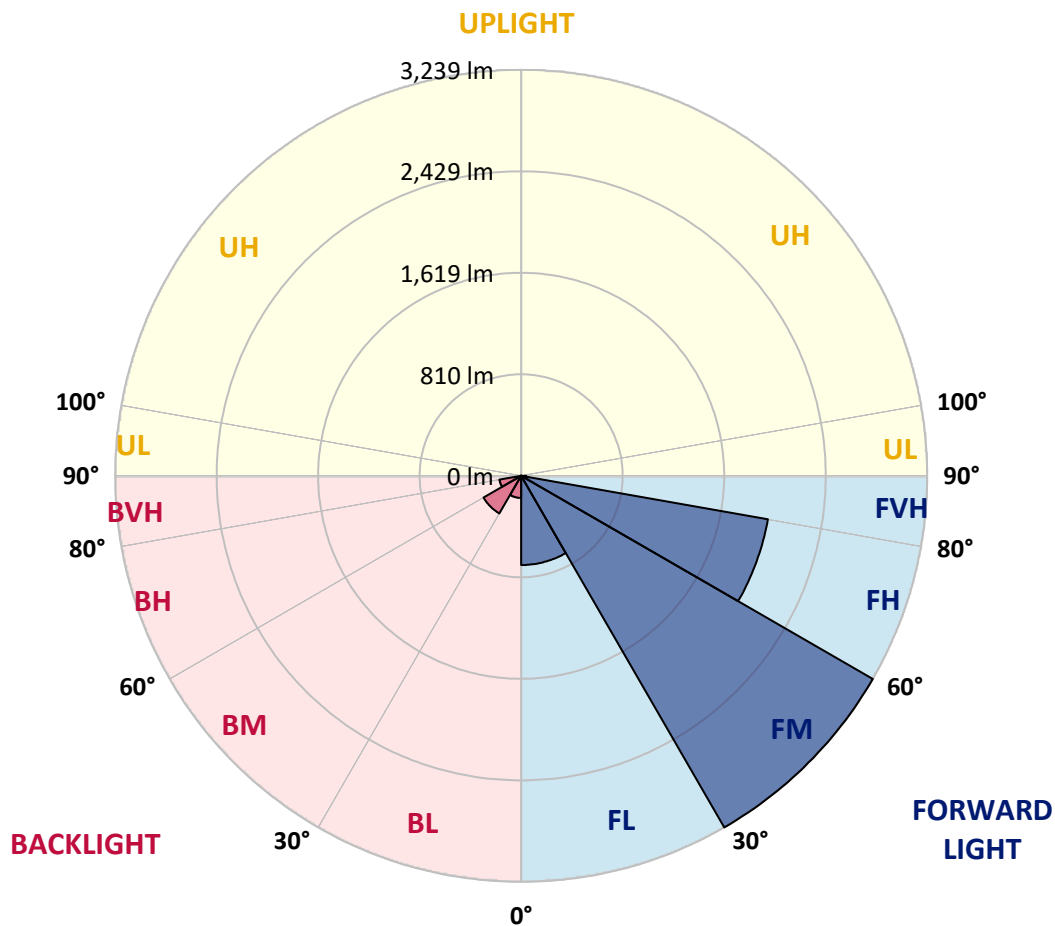
CATALOG NUMBER: ARCH2-80-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	711.6	10.6			
FM	(30°-60°)	3238.7	48.4			
FH	(60°-80°)	1998.4	29.8			G2/5000
FVH	(80°-90°)	39.9	0.6			G1/100
BL	(0°-30°)	176.9	2.6	B1/500		
BM	(30°-60°)	346.5	5.2	B1/1000		
BH	(60°-80°)	176.4	2.6	B1/500		G1/500
BVH	(80°-90°)	8.6	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



REPORT NUMBER: P800118

CATALOG NUMBER: ARCH2-80-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3
2.5°	1035.2	1043.6	1047.8	1049.2	1016.9	1002.9	988.8	956.5	949.5	931.3	907.4
5°	1217.8	1229.0	1226.2	1220.6	1181.3	1136.3	1099.8	1039.4	1029.6	986.0	932.7
7.5°	1397.6	1407.4	1404.6	1383.5	1340.0	1276.8	1216.4	1127.9	1113.9	1043.6	957.9
10°	1547.9	1556.3	1554.9	1533.8	1481.9	1404.6	1331.6	1213.6	1196.7	1097.0	979.0
12.5°	1671.5	1682.7	1681.3	1667.3	1620.9	1536.6	1453.8	1311.9	1290.8	1161.6	1008.5
15°	1768.4	1782.5	1782.5	1776.8	1744.5	1674.3	1580.2	1420.1	1394.8	1236.1	1045.0
17.5°	1827.4	1838.6	1848.5	1858.3	1835.8	1782.5	1696.8	1528.2	1501.5	1309.1	1083.0
20°	1858.3	1869.5	1876.6	1897.6	1901.8	1875.2	1807.7	1635.0	1606.9	1392.0	1126.5
22.5°	1908.9	1918.7	1920.1	1938.4	1946.8	1953.8	1911.7	1740.3	1717.8	1483.3	1175.7
25°	1993.1	2004.4	2000.2	2008.6	2010.0	2018.4	2014.2	1861.1	1838.6	1587.2	1234.7
27.5°	2101.3	2115.3	2112.5	2104.1	2091.5	2084.4	2102.7	1983.3	1962.2	1691.2	1295.1
30°	2217.9	2234.7	2230.5	2213.7	2180.0	2150.5	2175.7	2098.5	2078.8	1797.9	1362.5
32.5°	2335.9	2355.5	2354.1	2326.0	2268.5	2217.9	2255.8	2206.6	2192.6	1913.1	1435.5
35°	2413.1	2438.4	2435.6	2418.7	2344.3	2300.8	2347.1	2317.6	2307.8	2053.5	1540.9
37.5°	2538.1	2564.8	2540.9	2498.8	2413.1	2390.7	2446.8	2442.6	2435.6	2202.4	1651.8
40°	2841.5	2880.9	2817.7	2644.9	2504.4	2484.8	2564.8	2581.7	2574.7	2349.9	1751.6
42.5°	3159.0	3218.0	3119.6	2880.9	2670.2	2598.5	2694.0	2717.9	2709.5	2476.3	1841.4
45°	3351.4	3376.7	3278.4	3093.0	2963.7	2736.2	2831.7	2871.0	2864.0	2628.0	1956.6
47.5°	3508.7	3498.9	3386.5	3261.5	3285.4	2930.0	2987.6	3064.9	3059.2	2795.2	2083.0
50°	3542.4	3520.0	3475.0	3396.4	3459.6	3126.7	3152.0	3285.4	3279.8	2980.6	2210.9
52.5°	3305.1	3275.6	3397.8	3463.8	3442.7	3269.9	3333.1	3527.0	3524.2	3181.4	2333.1
55°	2712.3	2688.4	3017.1	3358.4	3424.4	3371.1	3534.0	3778.4	3793.9	3395.0	2444.0
57.5°	2133.6	2108.3	2431.4	3094.4	3357.0	3463.8	3768.6	4066.4	4086.0	3626.7	2549.4
60°	1701.0	1663.1	1910.3	2678.6	3230.6	3535.4	3994.7	4382.4	4385.2	3838.8	2614.0
62.5°	1156.0	1113.9	1387.8	2151.9	3018.5	3546.6	4168.9	4654.9	4666.1	3997.5	2625.2
65°	702.3	667.2	852.6	1571.8	2705.3	3451.1	4171.7	4855.7	4865.6	4070.6	2557.8
67.5°	407.3	393.3	487.4	979.0	2185.6	3194.1	3996.1	4824.8	4843.1	4039.7	2404.7
70°	237.4	236.0	271.1	484.6	1542.3	2684.2	3604.2	4565.0	4591.7	3878.1	2170.1
72.5°	174.2	177.0	191.0	259.9	893.3	1932.7	3052.2	4042.5	4083.2	3562.1	1835.8
75°	137.7	139.1	151.7	177.0	469.1	1092.8	2286.7	3244.7	3277.0	2998.9	1434.1
77.5°	102.5	105.3	115.2	125.0	217.7	501.4	1286.6	1998.8	1945.4	1646.2	692.5
80°	74.4	81.5	85.7	89.9	115.2	193.8	386.3	696.7	691.1	719.2	327.3
82.5°	47.8	53.4	57.6	60.4	68.8	92.7	115.2	155.9	168.6	279.5	130.6
85°	21.1	23.9	26.7	32.3	29.5	32.3	47.8	30.9	26.7	42.1	23.9
87.5°	0.0	0.0	4.2	7.0	5.6	2.8	8.4	5.6	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P800118

CATALOG NUMBER: ARCH2-80-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3	886.3
2.5°	894.7	879.3	847.0	816.1	797.8	773.9	752.9	733.2	731.8	726.2	716.4
5°	906.0	876.5	816.1	758.5	714.9	668.6	629.3	598.4	587.1	578.7	567.5
7.5°	917.2	870.9	781.0	696.7	627.9	563.3	516.9	474.8	462.1	450.9	443.9
10°	921.4	861.0	740.2	627.9	538.0	469.1	420.0	389.1	377.8	372.2	368.0
12.5°	934.1	855.4	702.3	563.3	459.3	396.1	361.0	342.7	338.5	334.3	330.1
15°	950.9	855.4	664.4	500.0	397.5	346.9	325.9	313.2	310.4	309.0	306.2
17.5°	969.2	855.4	627.9	446.7	352.6	314.6	299.2	292.2	290.8	289.4	287.9
20°	994.5	856.8	588.5	400.3	320.3	290.8	278.1	269.7	268.3	266.9	266.9
22.5°	1019.7	859.6	550.6	365.2	299.2	272.5	257.0	248.6	245.8	245.8	245.8
25°	1052.1	868.1	515.5	335.7	280.9	255.6	236.0	229.0	227.5	227.5	226.1
27.5°	1090.0	877.9	484.6	313.2	262.7	236.0	216.3	209.3	206.5	206.5	205.1
30°	1130.7	887.7	459.3	296.4	244.4	216.3	198.1	189.6	186.8	188.2	186.8
32.5°	1175.7	901.8	439.6	285.1	227.5	199.5	182.6	172.8	171.4	171.4	170.0
35°	1251.5	941.1	436.8	279.5	213.5	186.8	170.0	160.1	158.7	158.7	157.3
37.5°	1333.0	986.0	449.5	276.7	202.3	175.6	160.1	150.3	148.9	148.9	148.9
40°	1401.8	1019.7	463.5	276.7	195.2	165.7	151.7	143.3	143.3	143.3	143.3
42.5°	1448.2	1022.6	460.7	276.7	189.6	158.7	146.1	137.7	137.7	139.1	137.7
45°	1517.0	1036.6	449.5	272.5	185.4	153.1	140.5	133.4	132.0	133.4	133.4
47.5°	1598.5	1061.9	438.2	255.6	184.0	147.5	136.2	127.8	126.4	127.8	126.4
50°	1675.7	1084.4	432.6	233.2	181.2	141.9	130.6	122.2	120.8	122.2	120.8
52.5°	1740.3	1094.2	422.8	217.7	174.2	136.2	125.0	116.6	113.8	115.2	115.2
55°	1792.3	1091.4	408.7	205.1	161.5	130.6	118.0	111.0	106.8	106.8	105.3
57.5°	1840.0	1092.8	396.1	192.4	147.5	122.2	112.4	103.9	98.3	96.9	95.5
60°	1858.3	1085.8	373.6	175.6	133.4	115.2	105.3	95.5	89.9	88.5	87.1
62.5°	1833.0	1060.5	344.1	146.1	120.8	106.8	98.3	88.5	82.9	81.5	80.1
65°	1761.4	1012.7	299.2	115.2	109.6	96.9	89.9	82.9	75.8	73.0	71.6
67.5°	1639.2	943.9	243.0	92.7	96.9	88.5	84.3	75.8	67.4	64.6	63.2
70°	1465.0	852.6	182.6	78.7	85.7	78.7	75.8	67.4	60.4	57.6	56.2
72.5°	1220.6	705.1	127.8	67.4	74.4	68.8	66.0	60.4	53.4	49.2	49.2
75°	922.8	505.7	84.3	57.6	61.8	59.0	54.8	50.6	46.4	43.5	42.1
77.5°	397.5	196.6	52.0	43.5	50.6	49.2	43.5	40.7	39.3	36.5	36.5
80°	171.4	80.1	32.3	32.3	36.5	35.1	33.7	30.9	30.9	29.5	28.1
82.5°	63.2	32.3	19.7	23.9	26.7	23.9	23.9	23.9	23.9	22.5	22.5
85°	15.5	9.8	9.8	14.0	15.5	14.0	15.5	14.0	14.0	14.0	12.6
87.5°	4.2	4.2	5.6	5.6	5.6	5.6	5.6	4.2	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)