

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: P799894

Luminaire Tested: **ARCH2-60-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799894
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: ARCH2-60-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 485mA 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: 6188 lumens
Efficiency: N/A
Efficacy: 97.0 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): 63.8
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

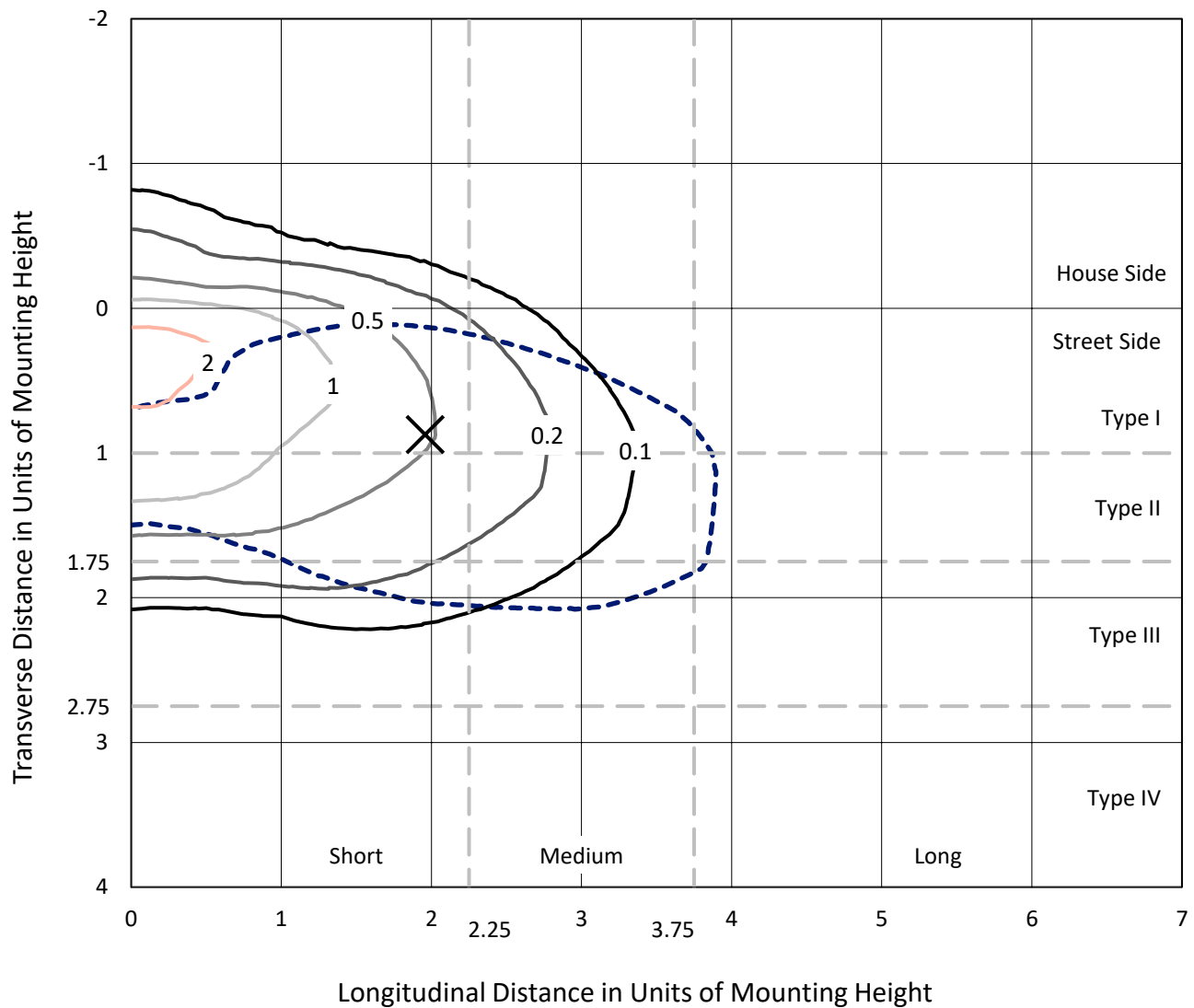


REPORT NUMBER: P799894

CATALOG NUMBER: ARCH2-60-730-U-T3-HSS

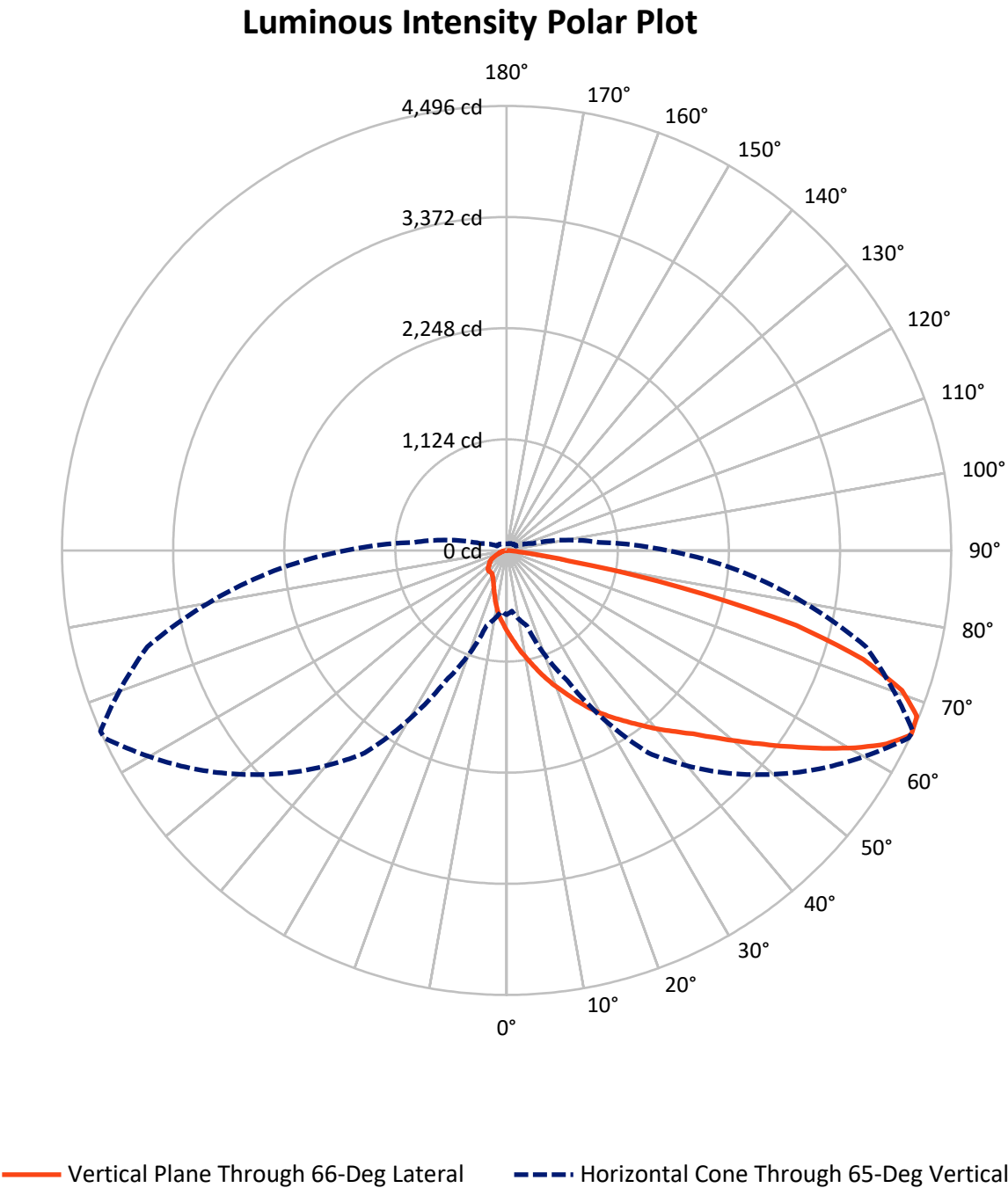
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Short - N/A

REPORT NUMBER: P799894
CATALOG NUMBER: ARCH2-60-730-U-T3-HSS



REPORT NUMBER: P799894

CATALOG NUMBER: ARCH2-60-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.5	0.0	654.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5533.5	0.0	5533.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	6188.0	0.0	6188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.3
10°-20°	263.4	4.3
20°-30°	476.7	7.7
30°-40°	745.4	12.0
40°-50°	1130.7	18.3
50°-60°	1436.6	23.2
60°-70°	1342.4	21.7
70°-80°	667.1	10.8
80°-90°	44.8	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°	6188.0	100.0
0°-180°	6188.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799894

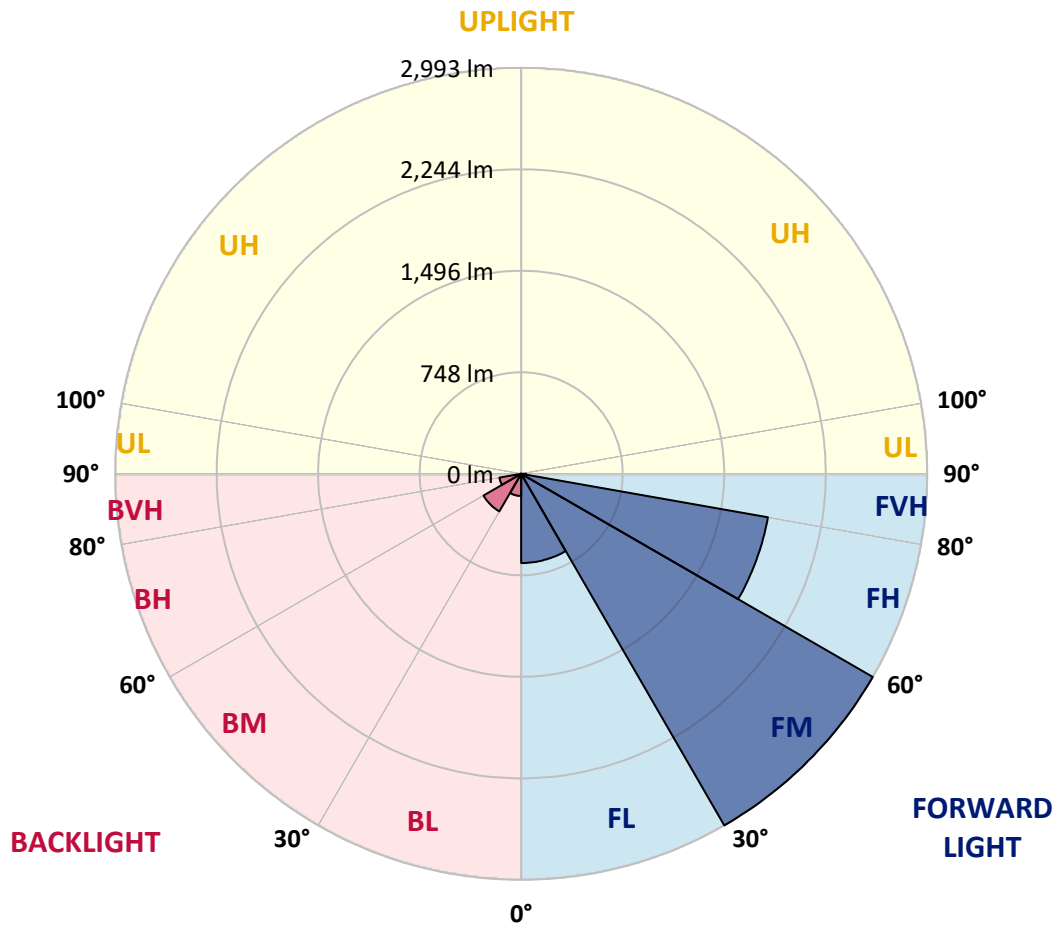
CATALOG NUMBER: ARCH2-60-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	657.5	10.6			
FM	(30°-60°)	2992.6	48.4			
FH	(60°-80°)	1846.5	29.8			G2/5000
FVH	(80°-90°)	36.9	0.6			G1/100
BL	(0°-30°)	163.5	2.6	B1/500		
BM	(30°-60°)	320.1	5.2	B1/1000		
BH	(60°-80°)	163.0	2.6	B1/500		G1/500
BVH	(80°-90°)	7.9	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



REPORT NUMBER: P799894

CATALOG NUMBER: ARCH2-60-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9
2.5°	956.5	964.3	968.2	969.5	939.6	926.7	913.7	883.8	877.4	860.5	838.4
5°	1125.2	1135.6	1133.0	1127.8	1091.5	1050.0	1016.2	960.4	951.3	911.1	861.8
7.5°	1291.4	1300.5	1297.9	1278.4	1238.2	1179.8	1123.9	1042.2	1029.2	964.3	885.1
10°	1430.2	1438.0	1436.7	1417.3	1369.2	1297.9	1230.4	1121.3	1105.8	1013.6	904.6
12.5°	1544.4	1554.8	1553.5	1540.6	1497.7	1419.9	1343.3	1212.2	1192.7	1073.3	931.9
15°	1634.0	1647.0	1647.0	1641.8	1611.9	1547.0	1460.1	1312.1	1288.8	1142.1	965.6
17.5°	1688.5	1698.9	1708.0	1717.1	1696.3	1647.0	1567.8	1412.1	1387.4	1209.6	1000.6
20°	1717.1	1727.4	1733.9	1753.4	1757.3	1732.6	1670.3	1510.7	1484.7	1286.2	1040.9
22.5°	1763.8	1772.9	1774.2	1791.0	1798.8	1805.3	1766.4	1608.0	1587.3	1370.5	1086.3
25°	1841.7	1852.0	1848.1	1855.9	1857.2	1865.0	1861.1	1719.7	1698.9	1466.6	1140.8
27.5°	1941.6	1954.6	1952.0	1944.2	1932.5	1926.0	1942.9	1832.6	1813.1	1562.6	1196.6
30°	2049.3	2064.9	2061.0	2045.4	2014.3	1987.0	2010.4	1939.0	1920.8	1661.3	1258.9
32.5°	2158.3	2176.5	2175.2	2149.3	2096.0	2049.3	2084.4	2038.9	2026.0	1767.7	1326.4
35°	2229.7	2253.1	2250.5	2234.9	2166.1	2125.9	2168.7	2141.5	2132.4	1897.5	1423.7
37.5°	2345.2	2369.9	2347.8	2308.9	2229.7	2209.0	2260.9	2257.0	2250.5	2035.0	1526.3
40°	2625.6	2661.9	2603.5	2443.9	2314.1	2295.9	2369.9	2385.5	2379.0	2171.3	1618.4
42.5°	2918.9	2973.4	2882.5	2661.9	2467.2	2401.0	2489.3	2511.4	2503.6	2288.1	1701.5
45°	3096.7	3120.0	3029.2	2857.9	2738.5	2528.2	2616.5	2652.8	2646.3	2428.3	1807.9
47.5°	3242.0	3233.0	3129.1	3013.6	3035.7	2707.3	2760.5	2831.9	2826.7	2582.7	1924.7
50°	3273.2	3252.4	3210.9	3138.2	3196.6	2889.0	2912.4	3035.7	3030.5	2754.1	2042.8
52.5°	3053.9	3026.6	3139.5	3200.5	3181.0	3021.4	3079.8	3258.9	3256.3	2939.6	2155.7
55°	2506.2	2484.1	2787.8	3103.2	3164.2	3114.9	3265.4	3491.2	3505.5	3136.9	2258.3
57.5°	1971.4	1948.1	2246.6	2859.2	3101.9	3200.5	3482.2	3757.3	3775.5	3351.1	2355.6
60°	1571.7	1536.7	1765.1	2475.0	2985.1	3266.7	3691.1	4049.3	4051.9	3547.0	2415.3
62.5°	1068.1	1029.2	1282.3	1988.3	2789.1	3277.1	3852.0	4301.1	4311.5	3693.7	2425.7
65°	648.9	616.5	787.8	1452.3	2499.7	3188.8	3854.6	4486.7	4495.8	3761.2	2363.4
67.5°	376.4	363.4	450.4	904.6	2019.5	2951.3	3692.4	4458.1	4475.0	3732.6	2221.9
70°	219.3	218.0	250.5	447.8	1425.0	2480.2	3330.3	4218.0	4242.7	3583.4	2005.2
72.5°	160.9	163.5	176.5	240.1	825.4	1785.9	2820.2	3735.2	3772.9	3291.4	1696.3
75°	127.2	128.5	140.2	163.5	433.5	1009.7	2112.9	2998.0	3027.9	2770.9	1325.1
77.5°	94.7	97.3	106.4	115.5	201.2	463.3	1188.8	1846.9	1797.5	1521.1	639.8
80°	68.8	75.3	79.2	83.1	106.4	179.1	356.9	643.7	638.5	664.5	302.4
82.5°	44.1	49.3	53.2	55.8	63.6	85.7	106.4	144.1	155.7	258.3	120.7
85°	19.5	22.1	24.7	29.9	27.3	29.9	44.1	28.6	24.7	38.9	22.1
87.5°	0.0	0.0	3.9	6.5	5.2	2.6	7.8	5.2	3.9	3.9	3.9
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: P799894

CATALOG NUMBER: ARCH2-60-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9
2.5°	826.7	812.5	782.6	754.1	737.2	715.1	695.7	677.5	676.2	671.0	661.9
5°	837.1	809.9	754.1	700.8	660.6	617.8	581.4	552.9	542.5	534.7	524.3
7.5°	847.5	804.7	721.6	643.7	580.1	520.4	477.6	438.7	427.0	416.6	410.1
10°	851.4	795.6	684.0	580.1	497.1	433.5	388.1	359.5	349.1	343.9	340.0
12.5°	863.1	790.4	648.9	520.4	424.4	366.0	333.5	316.7	312.8	308.9	305.0
15°	878.6	790.4	613.9	462.0	367.3	320.6	301.1	289.4	286.8	285.5	282.9
17.5°	895.5	790.4	580.1	412.7	325.8	290.7	276.4	270.0	268.7	267.4	266.1
20°	918.9	791.7	543.8	369.9	295.9	268.7	257.0	249.2	247.9	246.6	246.6
22.5°	942.2	794.3	508.8	337.4	276.4	251.8	237.5	229.7	227.1	227.1	227.1
25°	972.1	802.1	476.3	310.2	259.6	236.2	218.0	211.6	210.3	210.3	209.0
27.5°	1007.1	811.2	447.8	289.4	242.7	218.0	199.9	193.4	190.8	190.8	189.5
30°	1044.8	820.2	424.4	273.8	225.8	199.9	183.0	175.2	172.6	173.9	172.6
32.5°	1086.3	833.2	406.2	263.5	210.3	184.3	168.7	159.6	158.3	158.3	157.0
35°	1156.4	869.6	403.6	258.3	197.3	172.6	157.0	148.0	146.7	146.7	145.4
37.5°	1231.7	911.1	415.3	255.7	186.9	162.2	148.0	138.9	137.6	137.6	137.6
40°	1295.3	942.2	428.3	255.7	180.4	153.1	140.2	132.4	132.4	132.4	132.4
42.5°	1338.1	944.8	425.7	255.7	175.2	146.7	135.0	127.2	127.2	128.5	127.2
45°	1401.7	957.8	415.3	251.8	171.3	141.5	129.8	123.3	122.0	123.3	123.3
47.5°	1477.0	981.2	404.9	236.2	170.0	136.3	125.9	118.1	116.8	118.1	116.8
50°	1548.3	1001.9	399.7	215.4	167.4	131.1	120.7	112.9	111.6	112.9	111.6
52.5°	1608.0	1011.0	390.7	201.2	160.9	125.9	115.5	107.7	105.1	106.4	106.4
55°	1656.1	1008.4	377.7	189.5	149.3	120.7	109.0	102.5	98.6	98.6	97.3
57.5°	1700.2	1009.7	366.0	177.8	136.3	112.9	103.8	96.0	90.8	89.6	88.3
60°	1717.1	1003.2	345.2	162.2	123.3	106.4	97.3	88.3	83.1	81.8	80.5
62.5°	1693.7	979.9	318.0	135.0	111.6	98.6	90.8	81.8	76.6	75.3	74.0
65°	1627.5	935.8	276.4	106.4	101.2	89.6	83.1	76.6	70.1	67.5	66.2
67.5°	1514.6	872.2	224.5	85.7	89.6	81.8	77.9	70.1	62.3	59.7	58.4
70°	1353.7	787.8	168.7	72.7	79.2	72.7	70.1	62.3	55.8	53.2	51.9
72.5°	1127.8	651.5	118.1	62.3	68.8	63.6	61.0	55.8	49.3	45.4	45.4
75°	852.7	467.2	77.9	53.2	57.1	54.5	50.6	46.7	42.8	40.2	38.9
77.5°	367.3	181.7	48.0	40.2	46.7	45.4	40.2	37.6	36.3	33.7	33.7
80°	158.3	74.0	29.9	29.9	33.7	32.4	31.1	28.6	28.6	27.3	26.0
82.5°	58.4	29.9	18.2	22.1	24.7	22.1	22.1	22.1	22.1	20.8	20.8
85°	14.3	9.1	9.1	13.0	14.3	13.0	14.3	13.0	13.0	13.0	11.7
87.5°	3.9	3.9	5.2	5.2	5.2	5.2	5.2	3.9	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)