

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: P799890

Luminaire Tested: **ARCH2-60-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6323 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

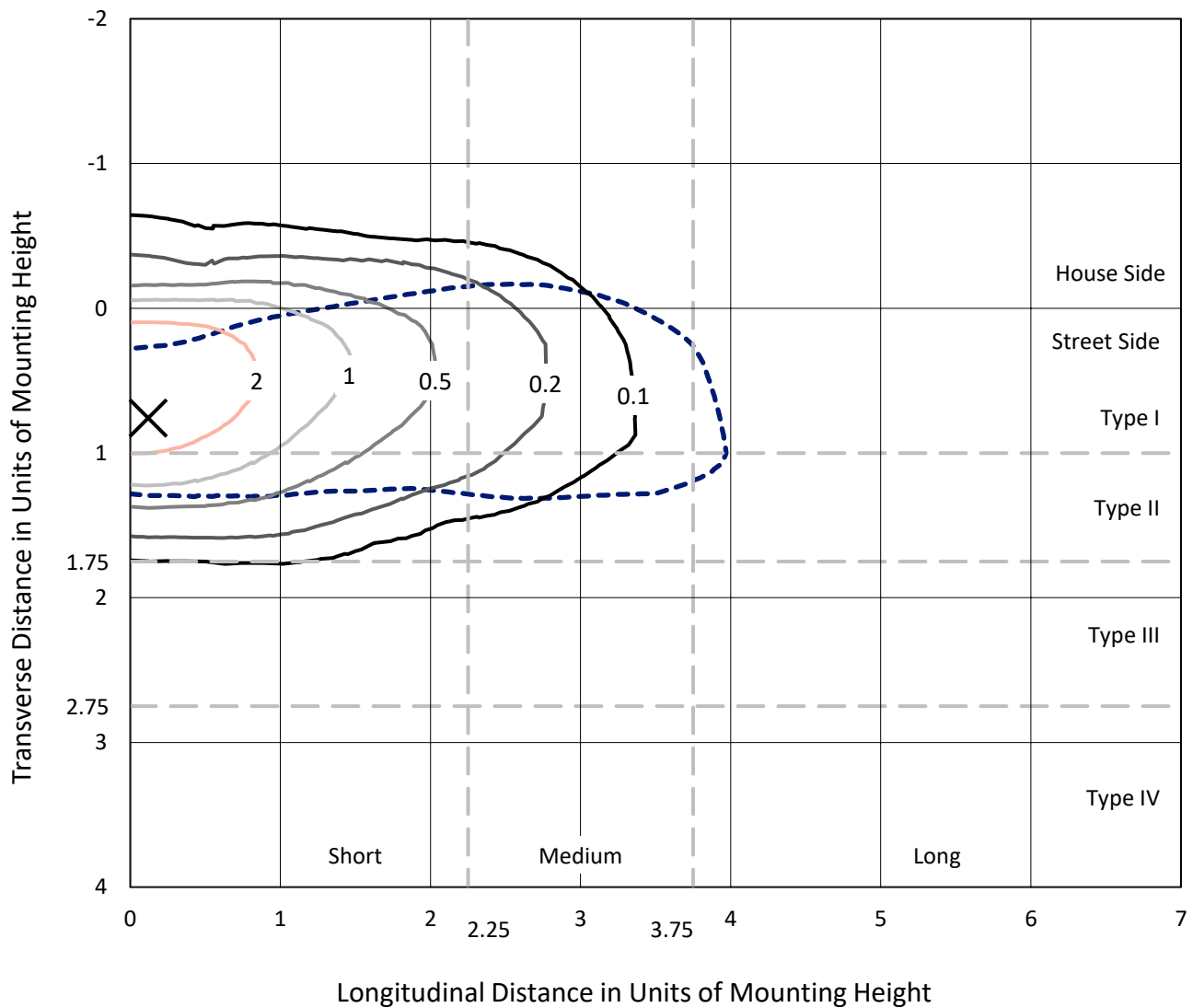


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

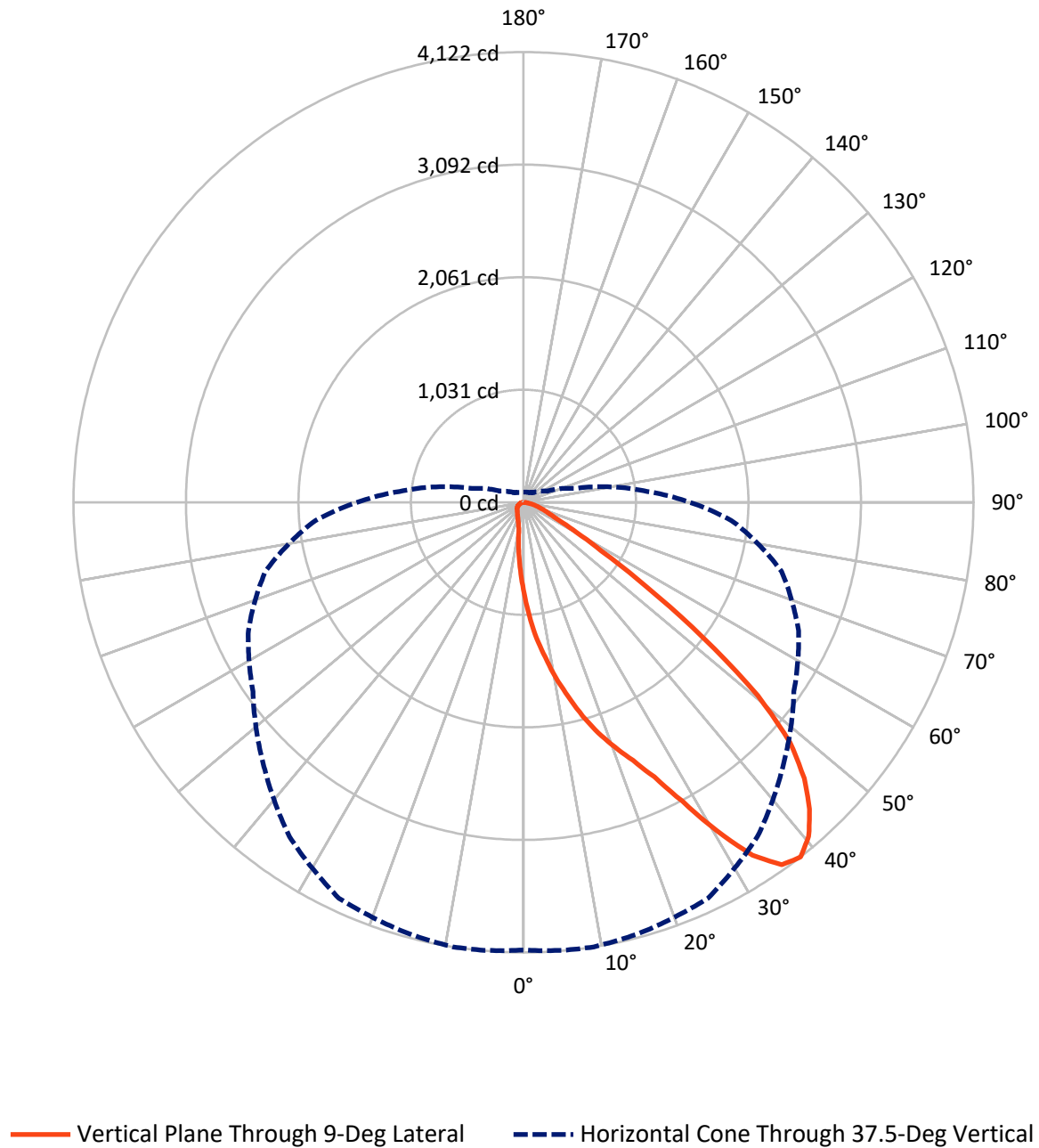


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	769.0	0.0	769.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5554.0	0.0	5554.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	6323.0	0.0	6323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.3
10°-20°	292.0	4.6
20°-30°	600.0	9.5
30°-40°	1060.5	16.8
40°-50°	1408.8	22.3
50°-60°	1336.2	21.1
60°-70°	1019.4	16.1
70°-80°	494.2	7.8
80°-90°	27.8	0.4
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°	6323.0	100.0
0°-180°	6323.0	100.0

Coefficient of Utilization



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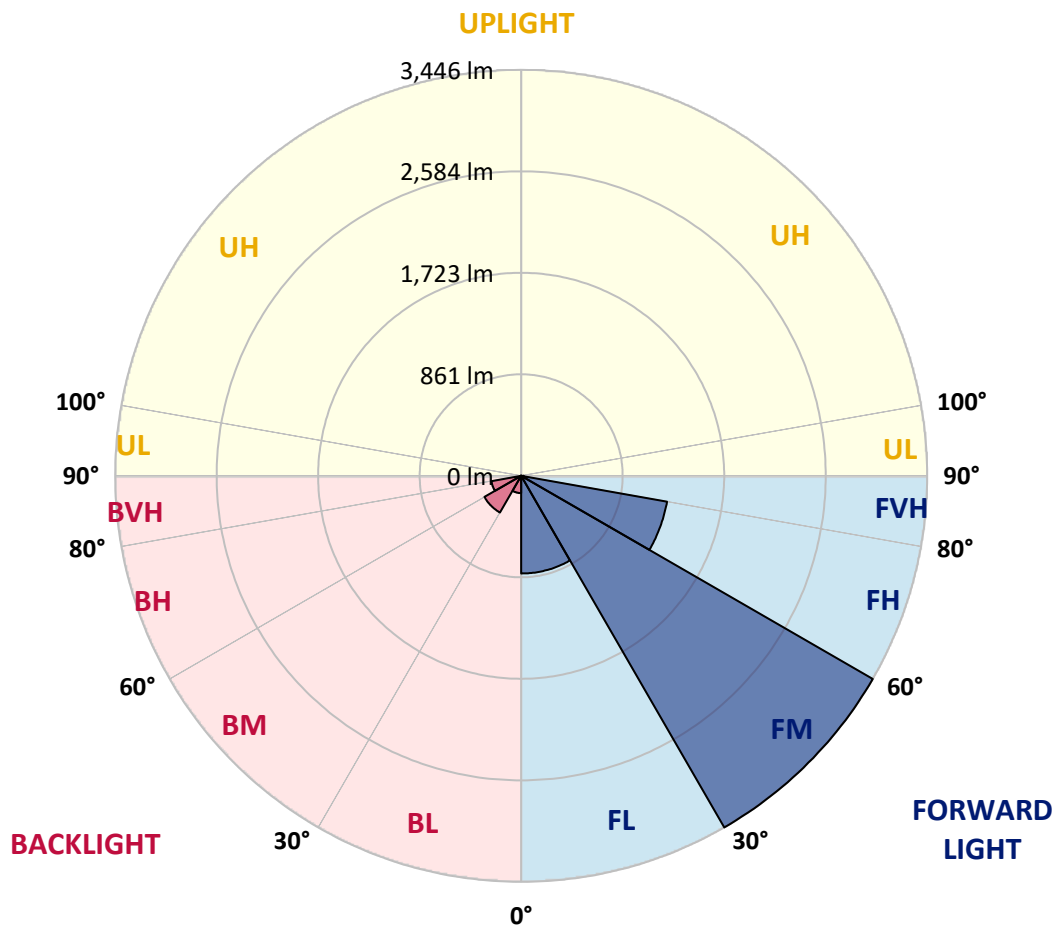
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	829.3	13.1			
FM	(30°-60°)	3445.7	54.5			
FH	(60°-80°)	1257.0	19.9			G1/1800
FVH	(80°-90°)	22.0	0.3			G1/100
BL	(0°-30°)	146.8	2.3	B1/500		
BM	(30°-60°)	359.8	5.7	B1/1000		
BH	(60°-80°)	256.6	4.1	B1/500		G1/500
BVH	(80°-90°)	5.8	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8
2.5°	1035.7	1017.5	1038.3	1035.7	1017.5	1005.8	969.5	957.8	915.0	883.8	856.6
5°	1248.5	1230.4	1248.5	1243.4	1217.4	1188.8	1129.1	1090.2	1013.6	946.1	885.1
7.5°	1425.1	1425.1	1432.8	1434.1	1403.0	1358.9	1284.9	1226.5	1118.8	1014.9	917.6
10°	1615.8	1617.1	1634.0	1622.3	1580.8	1521.1	1427.6	1353.7	1223.9	1087.6	948.7
12.5°	1819.6	1820.9	1826.1	1820.9	1771.6	1695.0	1582.1	1484.8	1335.5	1170.7	991.6
15°	2023.4	2024.7	2031.2	2022.1	1967.6	1878.0	1749.5	1630.1	1453.6	1264.1	1043.5
17.5°	2214.2	2216.8	2221.9	2210.3	2153.2	2046.7	1915.6	1771.6	1579.5	1364.1	1101.9
20°	2385.5	2388.1	2392.0	2376.4	2319.3	2212.9	2071.4	1920.8	1708.0	1466.6	1165.5
22.5°	2558.1	2560.7	2567.2	2546.4	2482.8	2360.8	2221.9	2066.2	1844.3	1579.5	1239.5
25°	2778.7	2781.3	2786.5	2756.7	2669.7	2526.9	2380.3	2220.6	1992.2	1706.7	1330.3
27.5°	3101.9	3099.3	3099.3	3044.8	2895.5	2709.9	2539.9	2377.7	2151.9	1843.0	1430.2
30°	3501.6	3495.1	3491.3	3417.3	3204.4	2916.3	2703.4	2524.3	2305.0	1987.0	1538.0
32.5°	3859.8	3859.8	3852.1	3774.2	3548.4	3194.0	2877.4	2667.1	2453.0	2132.4	1649.6
35°	4071.4	4080.5	4076.6	4018.2	3853.4	3492.6	3112.3	2838.4	2608.7	2284.2	1783.3
37.5°	4100.0	4118.1	4122.0	4087.0	4000.0	3736.5	3373.1	3024.0	2780.0	2447.8	1913.1
40°	3984.4	4023.4	4023.4	4018.2	3987.0	3852.1	3592.5	3239.5	2956.5	2617.8	2044.1
42.5°	3806.6	3846.9	3841.7	3861.1	3853.4	3824.8	3715.8	3440.6	3133.0	2793.0	2163.5
45°	3574.3	3615.8	3605.5	3640.5	3656.1	3687.2	3702.8	3580.8	3307.0	2983.8	2297.2
47.5°	3201.8	3271.9	3287.5	3349.8	3414.7	3512.0	3586.0	3631.4	3469.2	3188.9	2442.6
50°	2651.5	2750.2	2781.3	2912.4	3090.2	3291.4	3410.8	3569.1	3583.4	3399.1	2599.6
52.5°	1898.8	2013.0	2061.0	2276.5	2642.5	2992.9	3208.3	3431.6	3627.5	3600.3	2769.6
55°	1227.8	1325.1	1371.8	1574.3	2061.0	2611.3	2969.5	3253.7	3602.9	3784.6	2964.3
57.5°	756.7	812.5	843.6	1017.5	1465.3	2122.0	2656.7	3090.2	3527.6	3944.2	3166.8
60°	510.1	542.5	558.1	639.8	995.5	1586.0	2227.1	2918.9	3429.0	4051.9	3351.1
62.5°	338.7	349.1	364.7	415.3	656.7	1113.6	1710.6	2612.6	3355.0	4058.4	3487.4
65°	262.2	267.4	273.8	295.9	404.9	778.7	1203.1	2116.8	3244.7	3920.8	3530.2
67.5°	206.4	211.6	219.3	231.0	293.3	528.2	819.0	1550.9	3018.8	3705.4	3460.1
70°	162.2	166.1	171.3	181.7	228.4	382.9	541.2	1030.5	2563.3	3500.3	3239.5
72.5°	128.5	132.4	137.6	148.0	185.6	280.3	371.2	642.4	1976.6	3249.9	2815.1
75°	101.2	103.8	107.7	118.1	149.3	218.0	251.8	384.2	1343.3	2791.7	2193.4
77.5°	50.6	62.3	71.4	81.8	109.0	150.6	167.4	212.8	567.2	1432.8	1046.1
80°	29.9	36.3	38.9	45.4	71.4	90.9	90.9	85.7	179.1	550.3	427.0
82.5°	16.9	23.4	24.7	26.0	42.8	51.9	41.5	31.1	36.3	184.3	124.6
85°	5.2	7.8	9.1	10.4	14.3	15.6	14.3	13.0	10.4	18.2	11.7
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	2.6	2.6	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8
2.5°	841.0	824.1	791.7	761.8	733.3	712.5	693.1	674.9	661.9	651.5	650.2
5°	852.7	819.0	756.7	698.3	645.0	600.9	563.3	533.4	511.4	495.8	494.5
7.5°	868.3	816.4	721.6	634.7	555.5	491.9	437.4	397.1	368.6	356.9	347.8
10°	881.2	813.8	686.6	571.1	467.2	386.8	321.9	281.6	260.9	253.1	249.2
12.5°	903.3	816.4	656.7	512.7	390.7	295.9	246.6	224.5	215.4	209.0	207.7
15°	935.8	828.0	628.2	455.6	312.8	238.8	210.3	196.0	186.9	185.6	184.3
17.5°	968.2	838.4	602.2	397.1	259.6	207.7	188.2	176.5	170.0	168.7	168.7
20°	1005.8	851.4	573.7	341.3	221.9	186.9	171.3	162.2	154.4	153.1	153.1
22.5°	1050.0	869.6	546.4	292.0	197.3	171.3	158.3	148.0	141.5	140.2	140.2
25°	1109.7	896.8	524.3	255.7	180.4	158.3	146.7	137.6	132.4	129.8	129.8
27.5°	1175.9	934.5	508.8	233.6	168.7	148.0	136.3	128.5	123.3	120.7	120.7
30°	1249.8	976.0	498.4	224.5	162.2	138.9	128.5	120.7	114.2	112.9	112.9
32.5°	1331.6	1024.0	491.9	225.8	160.9	132.4	120.7	112.9	107.7	105.1	105.1
35°	1422.5	1077.2	488.0	233.6	163.5	127.2	114.2	106.4	101.2	98.6	98.6
37.5°	1523.7	1139.5	488.0	241.4	170.0	125.9	107.7	99.9	96.0	93.4	93.4
40°	1618.4	1205.7	493.2	250.5	176.5	125.9	102.5	96.0	90.9	88.3	88.3
42.5°	1692.4	1243.4	497.1	259.6	180.4	124.6	97.3	90.9	87.0	84.4	84.4
45°	1776.8	1283.6	489.3	263.5	180.4	122.0	93.4	87.0	83.1	80.5	80.5
47.5°	1870.2	1332.9	488.0	266.1	176.5	116.8	89.6	83.1	80.5	77.9	77.9
50°	1965.0	1387.4	490.6	264.8	171.3	109.0	84.4	80.5	76.6	74.0	74.0
52.5°	2072.7	1444.5	495.8	262.2	159.6	99.9	80.5	76.6	72.7	70.1	68.8
55°	2192.1	1506.8	506.2	257.0	144.1	90.9	76.6	72.7	67.5	64.9	63.6
57.5°	2329.7	1583.4	517.8	246.6	127.2	83.1	72.7	67.5	59.7	55.8	54.5
60°	2460.7	1670.4	530.8	221.9	110.3	75.3	68.8	61.0	53.2	50.6	49.3
62.5°	2584.0	1756.0	537.3	177.8	93.4	68.8	64.9	55.8	48.0	45.4	44.1
65°	2663.2	1849.5	523.0	120.7	76.6	63.6	59.7	51.9	44.1	40.2	40.2
67.5°	2668.4	1893.6	473.7	79.2	62.3	57.1	54.5	46.7	38.9	36.3	35.0
70°	2537.3	1827.4	362.1	62.3	51.9	49.3	49.3	41.5	33.7	31.1	29.9
72.5°	2236.2	1618.4	231.0	50.6	44.1	41.5	41.5	35.0	29.9	26.0	24.7
75°	1765.1	1248.5	123.3	41.5	36.3	35.0	32.4	28.6	24.7	22.1	20.8
77.5°	811.2	550.3	57.1	29.9	27.3	27.3	24.7	20.8	19.5	16.9	16.9
80°	320.6	186.9	28.6	19.5	18.2	18.2	18.2	14.3	14.3	11.7	10.4
82.5°	88.3	38.9	14.3	11.7	11.7	11.7	10.4	9.1	9.1	7.8	7.8
85°	9.1	6.5	6.5	6.5	6.5	5.2	5.2	3.9	2.6	2.6	2.6
87.5°	3.9	3.9	3.9	3.9	3.9	2.6	1.3	0.0	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)