

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: P348650

Luminaire Tested: **ARCH-N-PA1-50-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-50-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6178 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

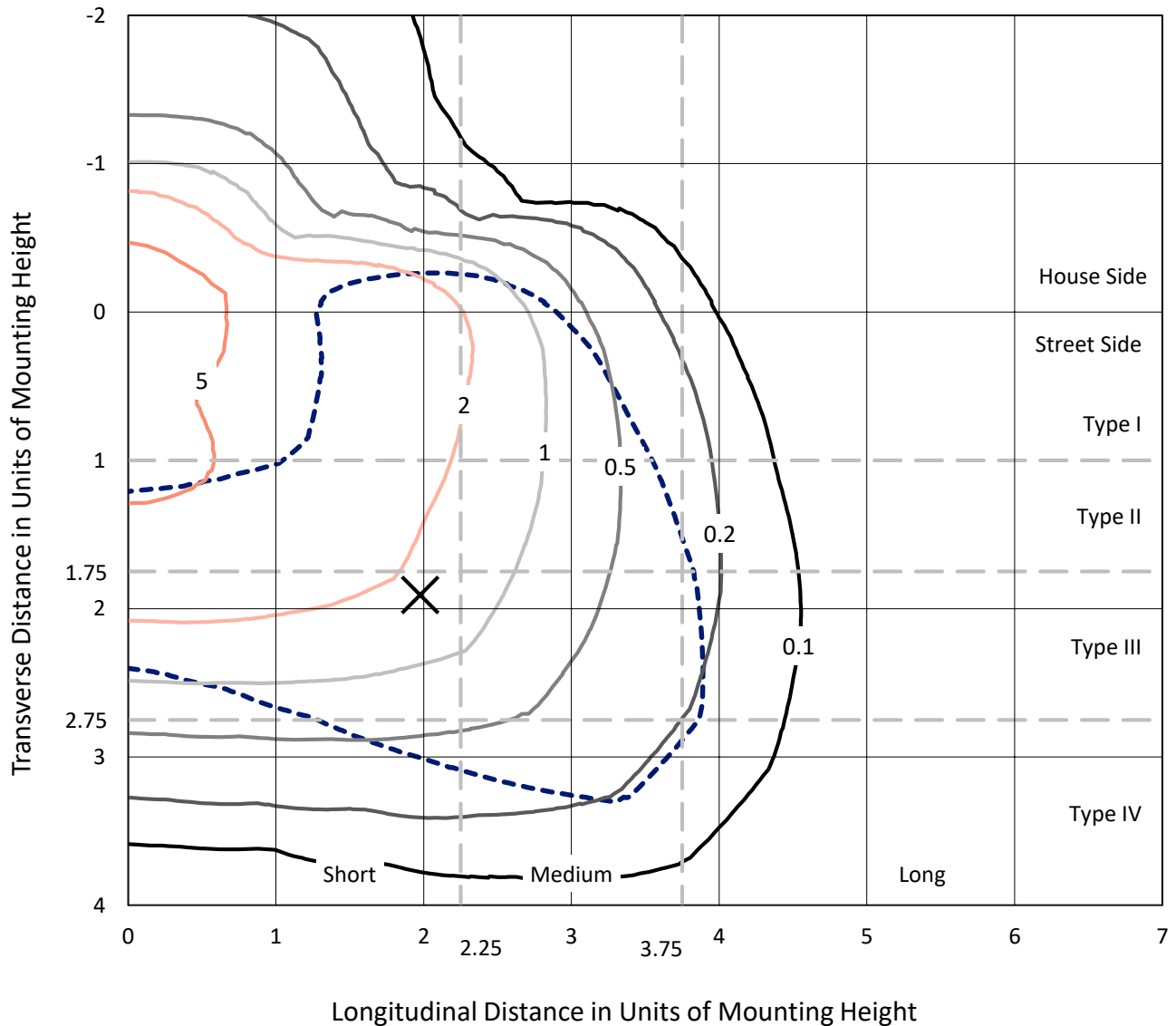
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

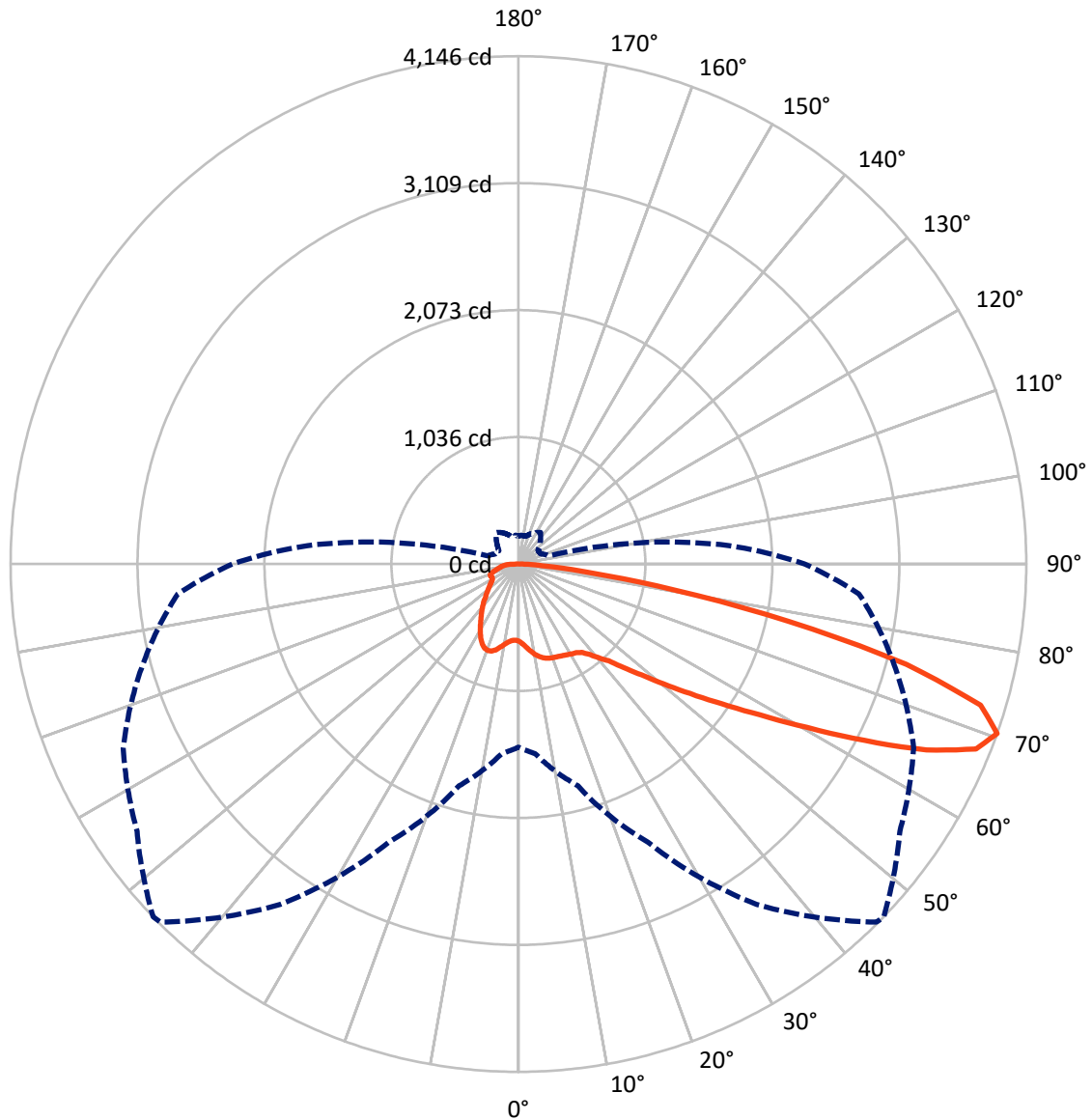
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1416.0	0.0	1416.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4762.0	0.0	4762.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	6178.0	0.0	6178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	1.0
10°-20°	213.8	3.5
20°-30°	356.4	5.8
30°-40°	505.8	8.2
40°-50°	744.0	12.0
50°-60°	1260.0	20.4
60°-70°	1788.6	29.0
70°-80°	1086.6	17.6
80°-90°	158.6	2.6
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°	6178.0	100.0
0°-180°	6178.0	100.0

Coefficient of Utilization



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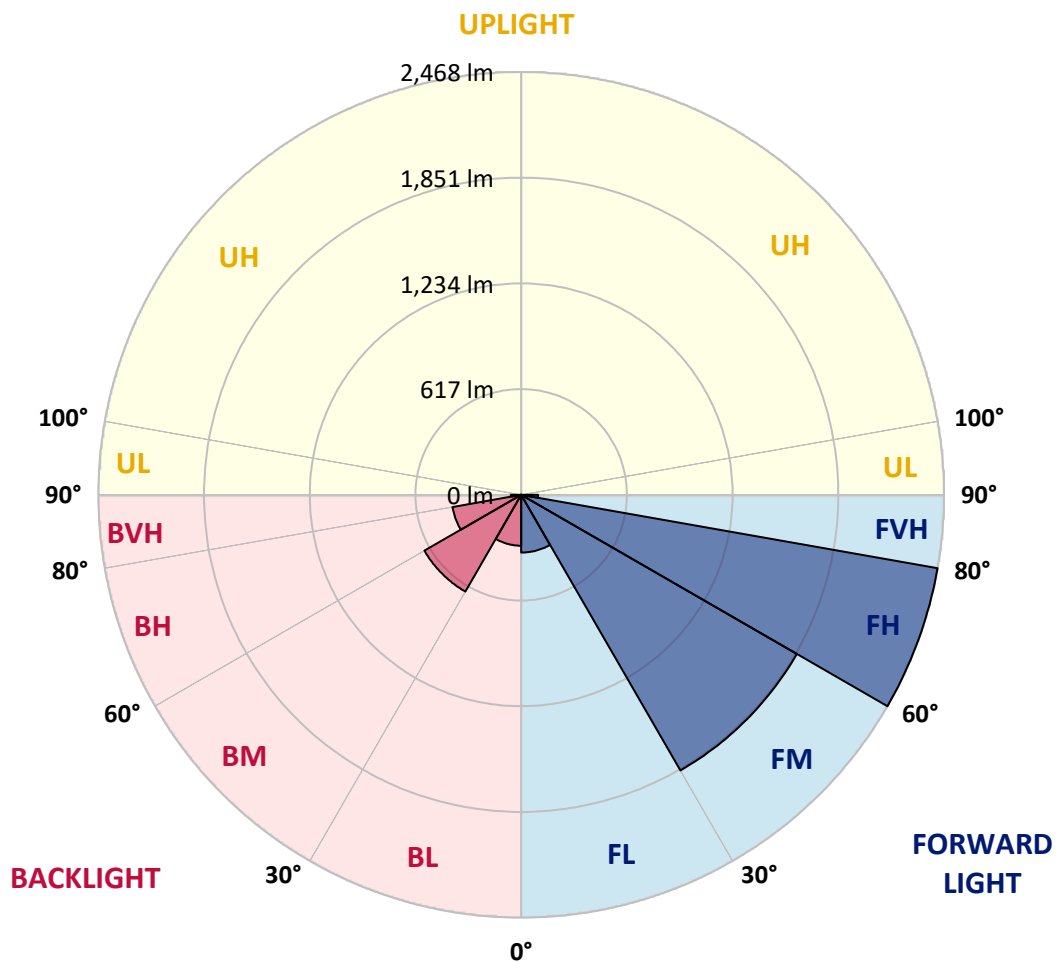
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.1	5.5			
FM	(30°-60°)	1858.1	30.1			
FH	(60°-80°)	2468.1	39.9			G2/5000
FVH	(80°-90°)	98.8	1.6			G1/100
BL	(0°-30°)	297.3	4.8	B1/500		
BM	(30°-60°)	651.8	10.6	B1/1000		
BH	(60°-80°)	407.1	6.6	B1/500		G1/500
BVH	(80°-90°)	59.8	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	629.4	629.4	629.4	629.4	629.4	629.4	629.4	629.4	629.4	629.4	629.4
2.5°	660.9	661.3	662.2	660.1	654.2	652.5	651.8	645.7	641.7	635.8	630.7
5°	713.8	714.2	712.9	707.0	693.9	684.2	683.3	669.4	656.7	643.2	633.0
7.5°	769.0	769.6	765.6	754.4	736.0	719.1	718.0	699.0	679.7	659.2	644.0
10°	817.8	815.3	808.7	793.1	771.3	750.6	749.7	729.8	707.6	682.9	662.6
12.5°	850.4	848.2	839.8	820.8	796.9	777.8	776.1	757.8	736.2	709.1	684.8
15°	868.3	869.8	858.4	836.8	813.6	797.5	796.0	782.9	763.7	736.4	708.5
17.5°	870.7	871.9	860.9	839.6	820.5	809.6	808.9	800.3	786.3	760.1	730.9
20°	857.1	858.0	848.9	831.3	818.9	815.5	815.3	811.5	801.1	777.8	749.5
22.5°	837.5	838.1	831.5	818.9	814.6	819.9	821.4	819.9	812.5	790.7	764.1
25°	832.6	832.2	825.4	812.5	816.1	827.3	829.2	829.8	824.8	805.7	782.7
27.5°	856.1	854.6	841.7	821.0	823.3	836.8	839.4	845.5	842.3	825.6	803.8
30°	923.9	921.4	895.0	853.1	841.7	848.7	851.8	861.6	862.2	848.2	832.0
32.5°	1038.5	1035.4	988.0	913.2	872.8	860.7	863.7	878.3	886.1	875.3	857.8
35°	1183.4	1179.8	1117.6	1015.3	924.8	883.8	885.9	897.5	913.2	897.9	874.7
37.5°	1334.3	1325.6	1265.8	1135.4	1007.4	933.0	933.0	934.5	941.9	910.2	894.5
40°	1484.4	1475.8	1421.6	1276.6	1114.4	1010.6	1005.8	973.0	967.1	939.8	934.5
42.5°	1624.0	1621.4	1589.5	1436.2	1240.0	1086.9	1080.2	1024.6	1025.8	1008.9	1009.1
45°	1772.4	1772.4	1746.4	1597.3	1386.3	1209.6	1202.8	1121.0	1133.7	1125.8	1144.7
47.5°	1893.5	1897.3	1893.7	1765.2	1556.5	1365.4	1353.1	1254.6	1290.1	1317.0	1371.7
50°	2017.2	2023.1	2023.8	1949.4	1762.2	1550.6	1536.6	1432.0	1511.3	1588.2	1695.9
52.5°	2196.7	2210.0	2157.0	2133.1	2014.3	1770.5	1756.7	1660.1	1792.5	1900.5	2085.9
55°	2363.1	2351.5	2313.6	2328.4	2284.0	2020.8	2010.5	1925.7	2105.8	2246.2	2487.0
57.5°	2453.2	2452.3	2490.4	2553.8	2575.0	2329.5	2320.8	2238.4	2459.1	2564.6	2863.6
60°	2558.9	2560.4	2654.7	2798.7	2885.8	2713.9	2710.1	2647.5	2802.2	2861.9	3158.9
62.5°	2573.7	2600.3	2762.7	3010.5	3176.7	3162.9	3171.4	3016.0	3109.2	3099.1	3379.4
65°	2403.5	2438.6	2732.5	3074.6	3465.9	3654.1	3661.9	3386.6	3351.3	3301.9	3458.3
67.5°	2054.6	2106.7	2425.9	2935.2	3561.3	4017.1	4028.1	3674.0	3552.2	3370.6	3268.4
70°	1495.2	1552.9	1874.3	2506.9	3391.3	4133.2	4145.7	3801.0	3559.8	3175.0	2790.2
72.5°	903.2	948.5	1213.4	1845.5	2862.3	3921.8	3944.0	3639.9	3250.1	2689.3	2060.4
75°	396.6	426.2	586.7	1063.5	2049.1	3244.8	3272.5	3115.6	2640.7	1954.4	1217.8
77.5°	168.9	177.4	240.6	462.0	1158.4	2217.2	2255.3	2276.4	1791.6	1063.5	514.6
80°	105.3	108.7	136.2	209.1	542.1	1245.3	1286.3	1339.4	889.7	390.9	179.7
82.5°	64.1	67.9	90.5	126.4	282.3	564.5	584.2	621.6	345.3	168.9	93.0
85°	38.5	41.2	55.4	79.9	160.7	222.0	221.8	245.3	162.6	108.7	49.1
87.5°	18.4	20.5	29.6	41.4	81.0	83.3	78.0	88.4	98.7	71.3	24.7
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°	629.4	629.4	629.4	629.4	629.4	629.4	629.4	629.4	629.4	629.4	629.4
2.5°	629.0	628.1	625.4	623.3	622.9	621.6	620.5	621.2	622.0	622.2	622.2
5°	628.8	626.5	622.9	621.4	623.3	625.8	629.0	633.2	635.8	637.7	638.9
7.5°	638.9	634.5	630.5	629.6	633.4	640.2	647.4	656.3	662.4	666.6	667.5
10°	655.8	650.3	646.3	647.2	653.9	663.7	673.8	685.2	694.5	700.2	700.7
12.5°	675.3	670.0	666.2	669.8	681.0	692.8	703.4	713.4	721.8	727.5	727.5
15°	697.7	693.9	689.5	697.7	712.9	723.5	727.9	732.8	737.5	741.7	740.8
17.5°	719.3	715.7	713.4	723.1	738.9	743.8	740.8	737.2	737.2	739.6	740.0
20°	737.9	734.7	736.2	745.7	753.9	748.9	737.9	726.5	721.8	723.1	724.3
22.5°	754.2	752.7	757.1	761.6	755.6	737.9	717.6	702.1	696.4	696.0	696.4
25°	773.2	773.0	778.5	770.4	744.2	711.5	684.2	669.2	666.0	668.5	672.8
27.5°	796.9	799.2	801.9	772.6	721.0	671.5	643.8	633.4	636.6	642.7	646.8
30°	827.1	833.4	827.5	767.3	687.6	625.8	599.4	596.4	605.1	613.8	618.0
32.5°	856.5	866.4	852.0	753.5	644.4	577.4	556.9	556.1	566.6	575.1	581.0
35°	880.2	899.8	870.4	726.3	594.5	532.8	517.8	512.1	515.9	525.8	532.6
37.5°	911.0	943.8	883.1	684.6	540.4	496.0	478.5	465.4	462.0	466.0	469.4
40°	967.5	1010.8	889.0	626.5	487.5	459.2	441.5	422.2	408.9	399.2	399.4
42.5°	1059.7	1098.2	885.2	555.8	438.7	423.3	403.2	381.0	359.4	337.4	335.7
45°	1209.4	1228.0	873.8	481.0	395.8	385.6	366.8	344.6	315.9	290.9	288.6
47.5°	1448.9	1407.7	856.1	415.7	357.9	353.7	336.4	310.8	280.4	260.3	258.6
50°	1775.6	1667.1	847.4	363.7	324.5	325.8	311.6	284.6	255.8	241.0	239.3
52.5°	2166.3	1969.2	864.1	323.5	297.7	302.1	291.6	266.2	242.1	230.5	228.8
55°	2571.6	2282.1	882.1	294.3	272.3	281.0	277.4	256.5	234.7	223.9	222.4
57.5°	2918.5	2515.8	846.1	270.6	249.7	263.2	266.4	250.3	230.9	221.2	219.5
60°	3136.9	2609.9	751.8	248.4	231.7	249.1	260.1	248.6	232.4	231.5	230.2
62.5°	3240.5	2601.6	610.4	230.9	220.5	242.9	264.7	258.2	249.3	256.9	257.5
65°	3194.0	2477.3	454.6	219.2	212.5	245.3	278.7	276.1	254.1	261.7	262.8
67.5°	2887.9	2180.7	336.6	209.1	203.6	251.8	304.0	282.0	244.6	250.1	246.7
70°	2334.2	1728.8	259.6	197.7	194.5	251.0	315.4	278.4	234.3	235.5	226.4
72.5°	1609.6	1178.9	211.2	187.1	181.4	228.8	307.4	269.6	225.6	215.9	203.8
75°	875.3	632.8	179.5	176.1	158.4	200.9	292.6	263.2	217.8	204.9	198.1
77.5°	344.4	262.6	155.8	161.1	138.5	177.4	276.1	251.2	207.0	190.1	186.7
80°	140.6	134.0	129.2	139.3	119.0	155.2	256.2	237.0	194.1	176.3	169.6
82.5°	79.7	83.3	100.4	109.9	96.6	142.9	246.7	225.6	178.7	157.9	149.9
85°	40.8	48.8	70.0	78.9	71.0	121.6	227.3	197.5	143.3	120.9	121.6
87.5°	19.7	27.3	44.2	49.5	46.1	88.0	169.8	143.1	111.6	88.4	85.6
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)