

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: P348644

Luminaire Tested: **ARCH-N-PA1-60-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348644
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-PA1-60-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6382 lumens
Efficiency: N/A
Efficacy: 102.9 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

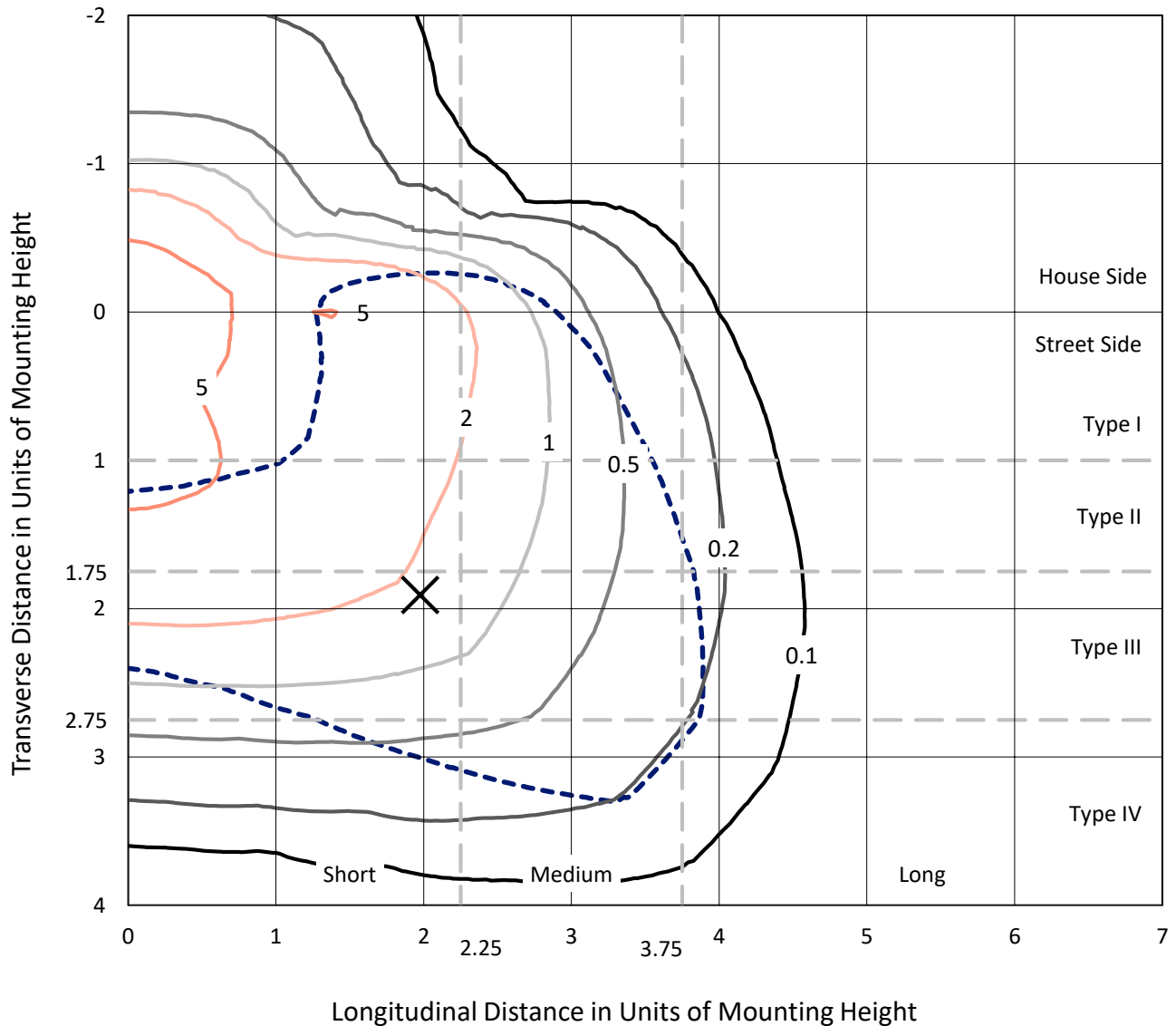
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348644
 CATALOG NUMBER: ARCH-N-PA1-60-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

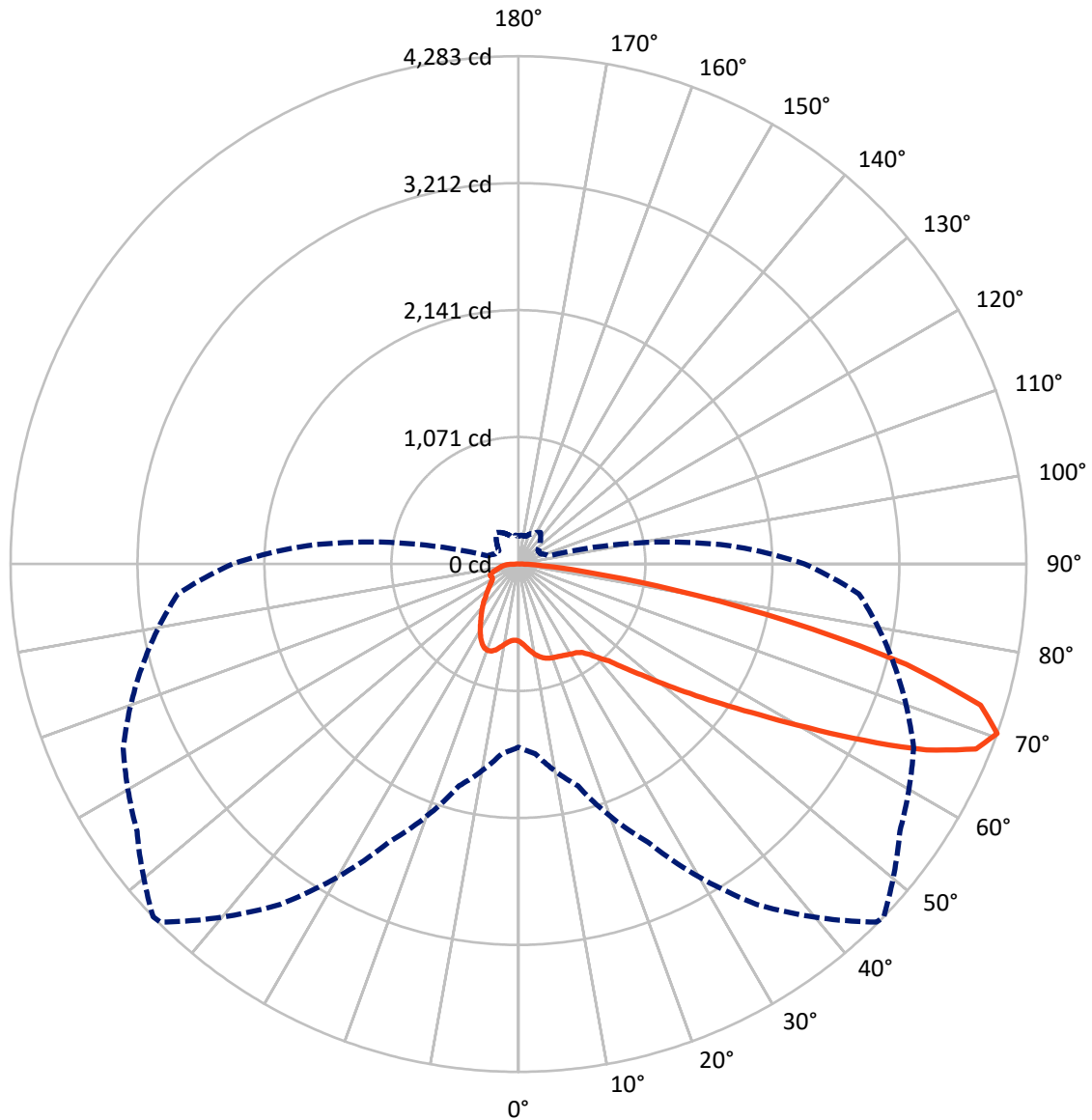


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P348644

CATALOG NUMBER: ARCH-N-PA1-60-727-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348644

CATALOG NUMBER: ARCH-N-PA1-60-727-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1462.7	0.0	1462.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4919.3	0.0	4919.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	6382.0	0.0	6382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	1.0
10°-20°	220.8	3.5
20°-30°	368.2	5.8
30°-40°	522.5	8.2
40°-50°	768.6	12.0
50°-60°	1301.6	20.4
60°-70°	1847.6	29.0
70°-80°	1122.5	17.6
80°-90°	163.8	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°	6382.0	100.0
0°-180°	6382.0	100.0

Coefficient of Utilization



REPORT NUMBER: P348644

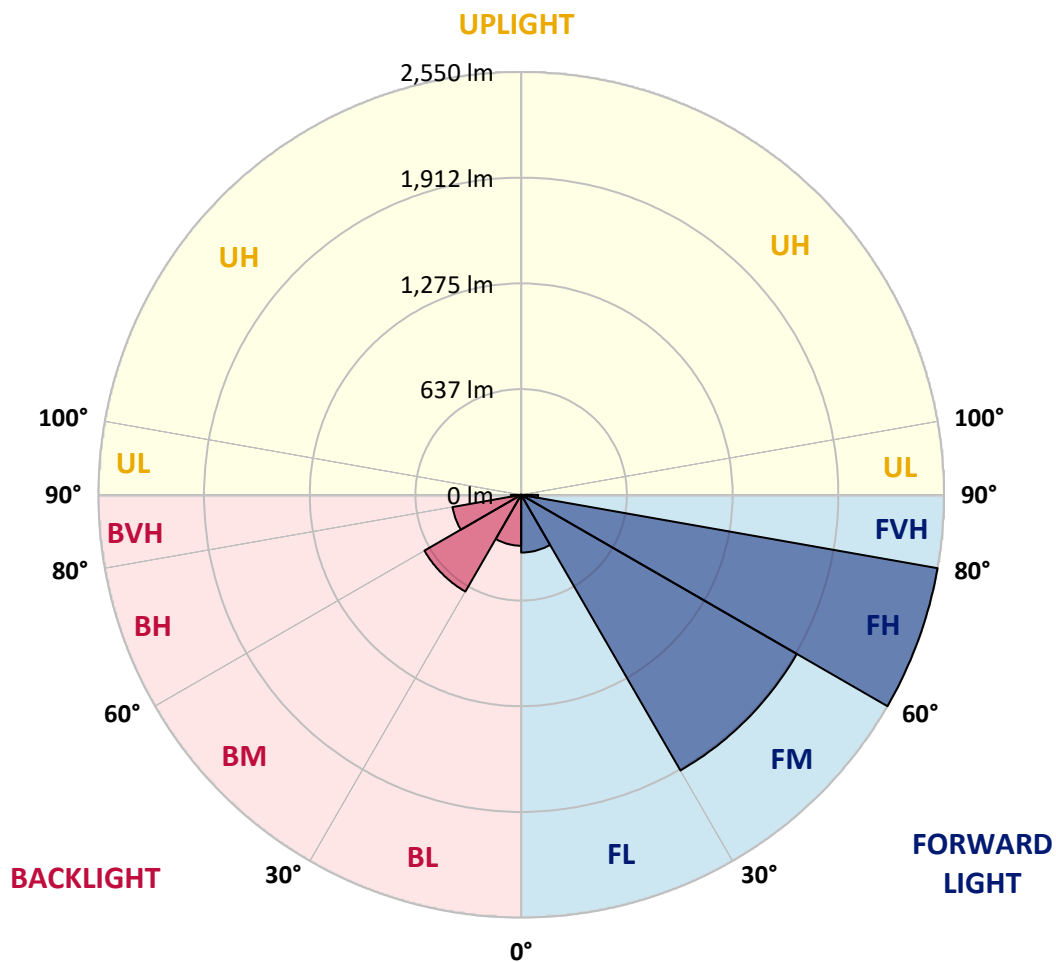
CATALOG NUMBER: ARCH-N-PA1-60-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.2	5.5			
FM	(30°-60°)	1919.4	30.1			
FH	(60°-80°)	2549.6	39.9			G2/5000
FVH	(80°-90°)	102.0	1.6			G2/225
BL	(0°-30°)	307.1	4.8	B1/500		
BM	(30°-60°)	673.3	10.6	B1/1000		
BH	(60°-80°)	420.5	6.6	B1/500		G1/500
BVH	(80°-90°)	61.8	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





REPORT NUMBER: P348644

CATALOG NUMBER: ARCH-N-PA1-60-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2
2.5°	682.7	683.2	684.1	681.9	675.8	674.0	673.4	667.0	662.9	656.8	651.5
5°	737.3	737.8	736.5	730.4	716.8	706.8	705.9	691.5	678.4	664.4	653.9
7.5°	794.4	795.0	790.9	779.3	760.3	742.8	741.7	722.1	702.2	681.0	665.3
10°	844.8	842.2	835.4	819.2	796.8	775.3	774.5	753.9	731.0	705.5	684.5
12.5°	878.4	876.3	867.5	847.9	823.2	803.5	801.8	782.8	760.5	732.5	707.4
15°	897.0	898.5	886.7	864.5	840.4	823.8	822.3	808.8	788.9	760.7	731.9
17.5°	899.4	900.7	889.4	867.3	847.6	836.3	835.6	826.7	812.3	785.2	755.0
20°	885.4	886.3	876.9	858.8	845.9	842.4	842.2	838.3	827.5	803.5	774.3
22.5°	865.1	865.8	859.0	845.9	841.5	847.0	848.5	847.0	839.3	816.8	789.3
25°	860.1	859.7	852.7	839.3	843.1	854.6	856.6	857.3	852.0	832.4	808.5
27.5°	884.3	882.8	869.5	848.1	850.5	864.5	867.1	873.4	870.1	852.9	830.4
30°	954.4	951.8	924.5	881.3	869.5	876.7	880.0	890.0	890.7	876.3	859.4
32.5°	1072.8	1069.5	1020.6	943.3	901.6	889.1	892.2	907.3	915.3	904.2	886.1
35°	1222.4	1218.7	1154.5	1048.8	955.3	912.9	915.1	927.1	943.3	927.6	903.6
37.5°	1378.4	1369.4	1307.6	1172.9	1040.7	963.8	963.8	965.4	973.0	940.2	924.1
40°	1533.4	1524.5	1468.6	1318.7	1151.2	1044.0	1039.0	1005.1	999.0	970.8	965.4
42.5°	1677.6	1675.0	1642.0	1483.6	1281.0	1122.8	1115.8	1058.4	1059.7	1042.2	1042.5
45°	1830.9	1830.9	1804.1	1650.1	1432.1	1249.5	1242.5	1158.0	1171.1	1163.0	1182.5
47.5°	1956.1	1960.0	1956.3	1823.5	1607.9	1410.5	1397.8	1296.0	1332.7	1360.5	1417.0
50°	2083.8	2089.9	2090.6	2013.7	1820.4	1601.8	1587.4	1479.3	1561.2	1640.7	1751.9
52.5°	2269.3	2283.0	2228.2	2203.5	2080.8	1828.9	1814.8	1714.9	1851.7	1963.3	2154.8
55°	2441.1	2429.1	2390.0	2405.3	2359.5	2087.5	2076.8	1989.3	2175.3	2320.4	2569.1
57.5°	2534.2	2533.3	2572.6	2638.2	2660.0	2406.4	2397.5	2312.3	2540.3	2649.3	2958.1
60°	2643.4	2644.9	2742.3	2891.1	2981.1	2803.5	2799.6	2734.9	2894.8	2956.4	3263.2
62.5°	2658.7	2686.2	2853.9	3109.9	3281.6	3267.4	3276.1	3115.6	3211.9	3201.4	3491.0
65°	2482.9	2519.1	2822.7	3176.1	3580.4	3774.7	3782.8	3498.5	3462.0	3410.9	3572.5
67.5°	2122.5	2176.2	2506.0	3032.2	3678.9	4149.8	4161.1	3795.3	3669.5	3481.9	3376.4
70°	1544.6	1604.2	1936.2	2589.7	3503.3	4269.7	4282.5	3926.5	3677.3	3279.8	2882.3
72.5°	933.0	979.8	1253.4	1906.5	2956.8	4051.3	4074.2	3760.1	3357.4	2778.2	2128.4
75°	409.7	440.3	606.1	1098.6	2116.8	3351.9	3380.5	3218.5	2727.9	2019.0	1258.0
77.5°	174.5	183.2	248.5	477.2	1196.7	2290.4	2329.8	2351.6	1850.8	1098.6	531.6
80°	108.8	112.3	140.7	216.0	560.0	1286.4	1328.8	1383.6	919.1	403.8	185.6
82.5°	66.2	70.1	93.5	130.6	291.6	583.1	603.5	642.1	356.7	174.5	96.1
85°	39.8	42.6	57.2	82.6	166.0	229.3	229.1	253.4	168.0	112.3	50.7
87.5°	19.0	21.2	30.6	42.8	83.7	86.1	80.6	91.3	102.0	73.6	25.6
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: P348644

CATALOG NUMBER: ARCH-N-PA1-60-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2
2.5°	649.8	648.9	646.1	643.9	643.4	642.1	641.0	641.7	642.6	642.8	642.8
5°	649.5	647.1	643.4	641.9	643.9	646.5	649.8	654.1	656.8	658.7	660.0
7.5°	660.0	655.4	651.3	650.4	654.4	661.3	668.8	677.9	684.3	688.6	689.5
10°	677.5	671.8	667.7	668.5	675.5	685.6	696.1	707.9	717.5	723.4	723.8
12.5°	697.6	692.1	688.2	691.9	703.5	715.7	726.6	736.9	745.6	751.5	751.5
15°	720.7	716.8	712.2	720.7	736.5	747.4	752.0	757.0	761.8	766.2	765.3
17.5°	743.0	739.3	736.9	747.0	763.3	768.4	765.3	761.6	761.6	764.0	764.4
20°	762.2	759.0	760.5	770.3	778.8	773.6	762.2	750.5	745.6	747.0	748.3
22.5°	779.1	777.5	782.1	786.7	780.6	762.2	741.3	725.3	719.4	719.0	719.4
25°	798.7	798.5	804.2	795.9	768.8	734.9	706.8	691.3	688.0	690.6	695.0
27.5°	823.2	825.6	828.4	798.1	744.8	693.7	665.1	654.4	657.6	664.0	668.1
30°	854.4	861.0	854.8	792.6	710.3	646.5	619.2	616.1	625.1	634.0	638.4
32.5°	884.8	895.0	880.2	778.4	665.7	596.5	575.3	574.4	585.3	594.1	600.2
35°	909.2	929.5	899.2	750.2	614.2	550.4	534.9	529.0	532.9	543.2	550.2
37.5°	941.1	975.0	912.3	707.2	558.3	512.4	494.3	480.7	477.2	481.4	484.9
40°	999.4	1044.2	918.4	647.1	503.6	474.4	456.0	436.2	422.4	412.4	412.6
42.5°	1094.7	1134.4	914.5	574.2	453.2	437.3	416.5	393.6	371.3	348.6	346.8
45°	1249.3	1268.5	902.7	496.9	408.9	398.4	378.9	356.0	326.3	300.5	298.1
47.5°	1496.8	1454.2	884.3	429.4	369.8	365.4	347.5	321.1	289.6	268.9	267.1
50°	1834.2	1722.1	875.4	375.7	335.3	336.6	321.9	294.0	264.3	249.0	247.2
52.5°	2237.8	2034.3	892.6	334.2	307.5	312.1	301.2	275.0	250.1	238.1	236.3
55°	2656.5	2357.5	911.2	304.0	281.3	290.3	286.6	264.9	242.4	231.3	229.8
57.5°	3014.9	2598.8	874.1	279.6	257.9	271.9	275.2	258.6	238.5	228.5	226.7
60°	3240.5	2696.0	776.7	256.6	239.4	257.3	268.6	256.8	240.0	239.2	237.8
62.5°	3347.5	2687.5	630.5	238.5	227.8	251.0	273.4	266.7	257.5	265.4	266.0
65°	3299.5	2559.1	469.6	226.5	219.5	253.4	287.9	285.2	262.5	270.4	271.5
67.5°	2983.2	2252.7	347.7	216.0	210.3	260.1	314.1	291.4	252.7	258.4	254.9
70°	2411.2	1785.9	268.2	204.2	200.9	259.3	325.9	287.6	242.0	243.3	233.9
72.5°	1662.7	1217.8	218.2	193.3	187.4	236.3	317.6	278.5	233.0	223.0	210.5
75°	904.2	653.7	185.4	181.9	163.6	207.5	302.3	271.9	225.0	211.6	204.6
77.5°	355.8	271.3	161.0	166.4	143.1	183.2	285.2	259.5	213.8	196.3	192.9
80°	145.2	138.5	133.4	143.9	123.0	160.3	264.7	244.8	200.5	182.2	175.2
82.5°	82.3	86.1	103.7	113.6	99.8	147.6	254.9	233.0	184.6	163.2	154.9
85°	42.2	50.5	72.3	81.5	73.4	125.6	234.8	204.0	148.1	124.9	125.6
87.5°	20.3	28.2	45.6	51.1	47.6	90.9	175.4	147.9	115.3	91.3	88.5
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)