

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: P348686

Luminaire Tested: **ARCH-N-PA1-60-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348686
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-PA1-60-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6064 lumens
Efficiency: N/A
Efficacy: 97.8 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

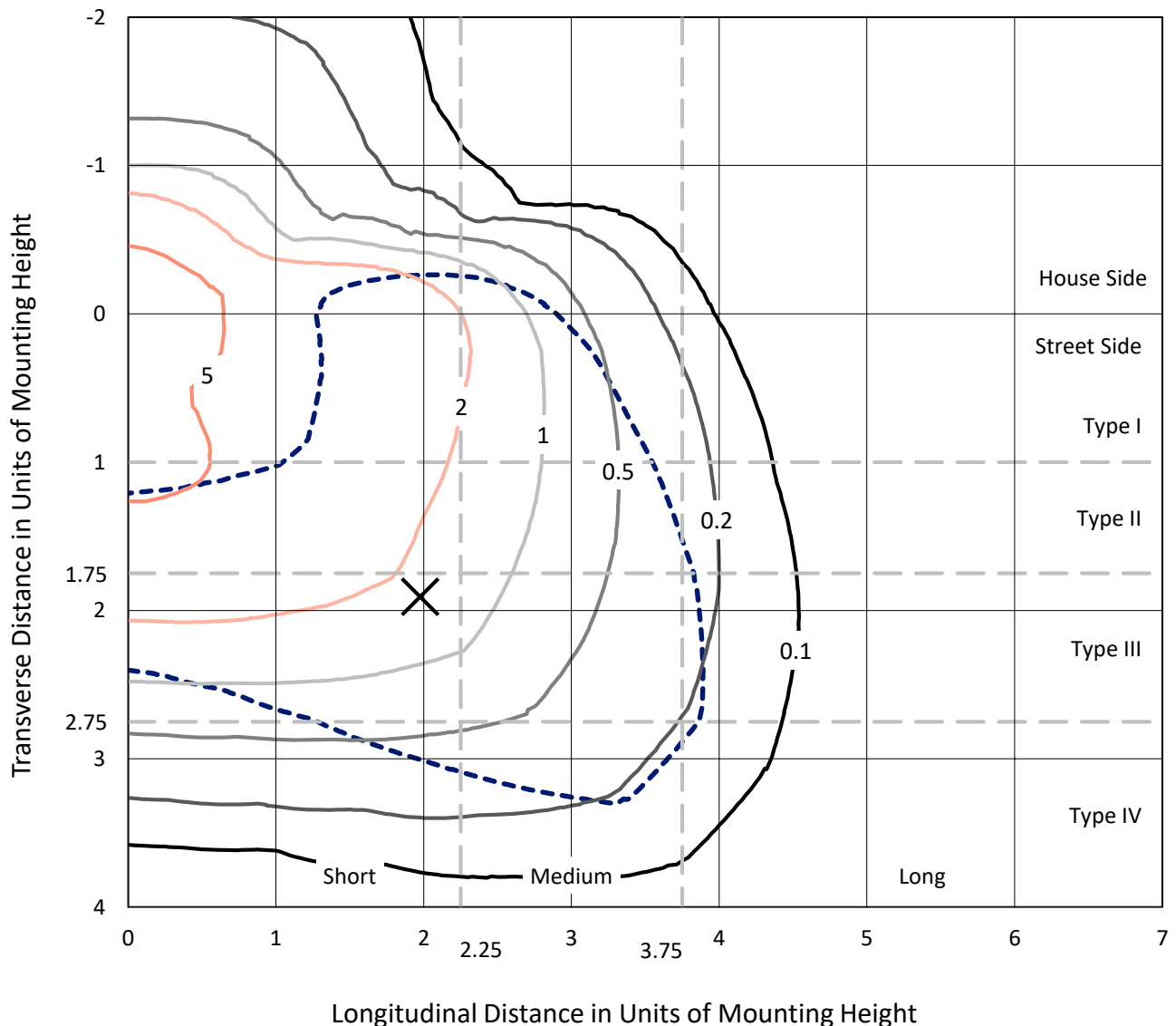
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348686
 CATALOG NUMBER: ARCH-N-PA1-60-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

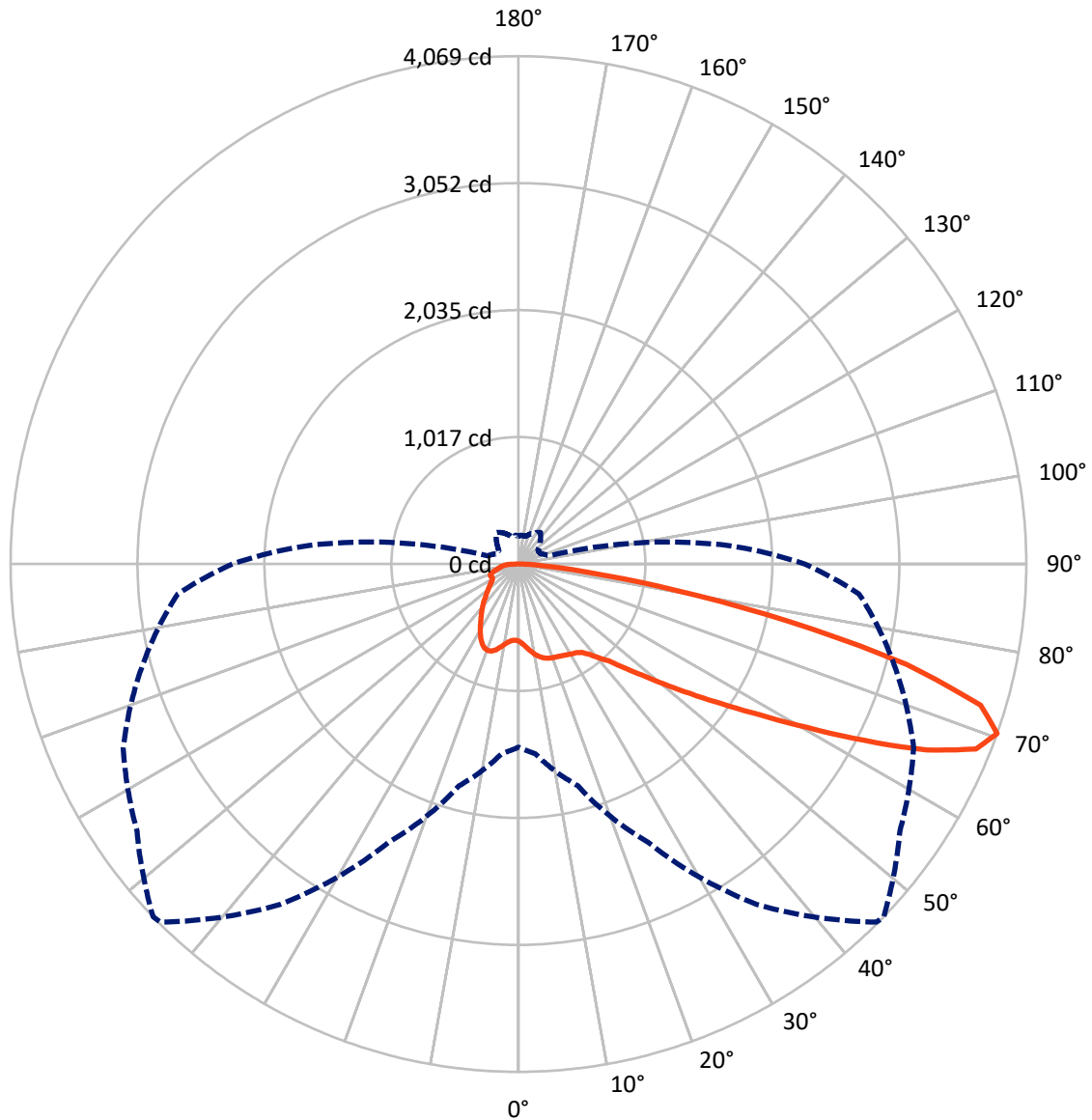
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P348686
CATALOG NUMBER: ARCH-N-PA1-60-830-U-T4W

Luminous Intensity Polar Plot



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



REPORT NUMBER: P348686

CATALOG NUMBER: ARCH-N-PA1-60-830-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1389.8	0.0	1389.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4674.2	0.0	4674.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	6064.0	0.0	6064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.0
10°-20°	209.8	3.5
20°-30°	349.9	5.8
30°-40°	496.5	8.2
40°-50°	730.3	12.0
50°-60°	1236.8	20.4
60°-70°	1755.6	29.0
70°-80°	1066.5	17.6
80°-90°	155.6	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°	6064.0	100.0
0°-180°	6064.0	100.0

Coefficient of Utilization



REPORT NUMBER: P348686

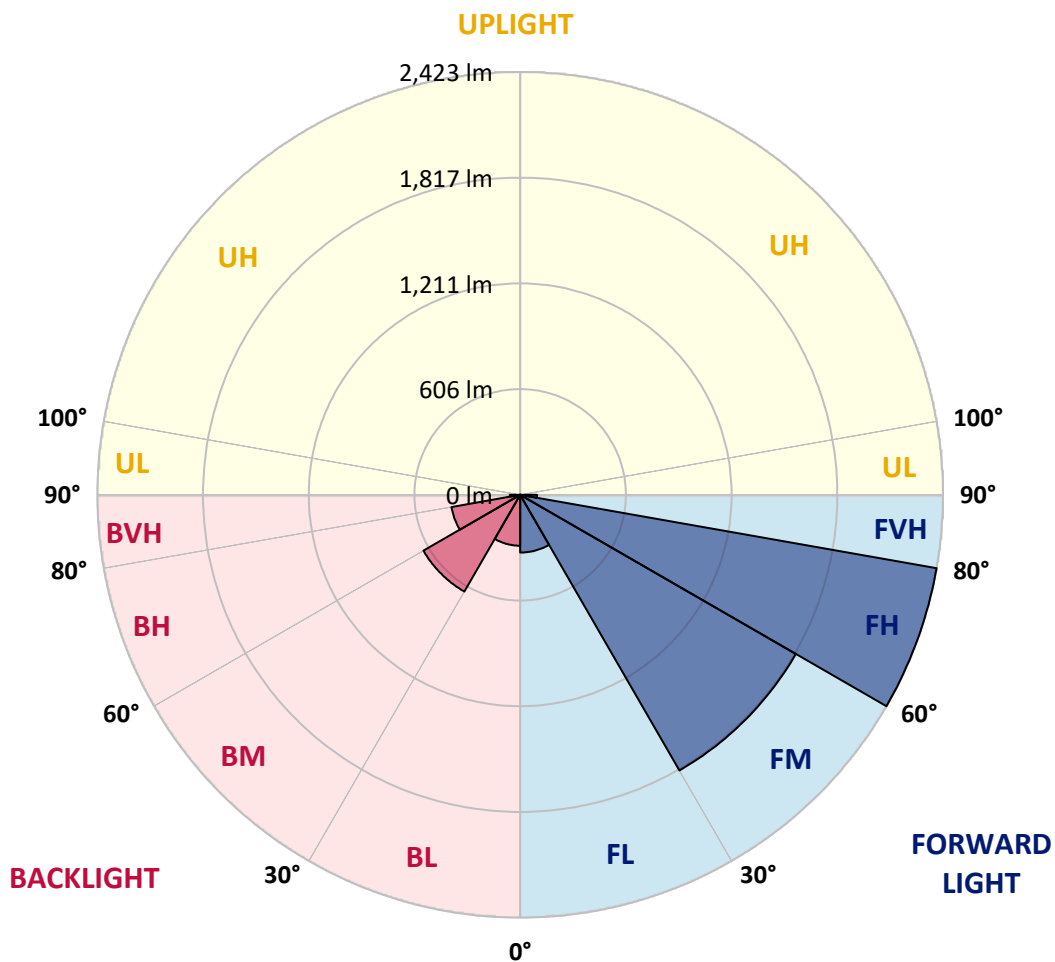
CATALOG NUMBER: ARCH-N-PA1-60-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	330.9	5.5			
FM	(30°-60°)	1823.8	30.1			
FH	(60°-80°)	2422.5	39.9			G2/5000
FVH	(80°-90°)	97.0	1.6			G1/100
BL	(0°-30°)	291.8	4.8	B1/500		
BM	(30°-60°)	639.8	10.6	B1/1000		
BH	(60°-80°)	399.6	6.6	B1/500		G1/500
BVH	(80°-90°)	58.7	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: P348686

CATALOG NUMBER: ARCH-N-PA1-60-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8
2.5°	648.7	649.1	650.0	647.9	642.1	640.4	639.8	633.8	629.8	624.0	619.0
5°	700.6	701.0	699.8	694.0	681.1	671.6	670.7	657.0	644.6	631.3	621.3
7.5°	754.8	755.4	751.4	740.5	722.4	705.8	704.8	686.1	667.2	647.1	632.1
10°	802.7	800.2	793.8	778.4	757.1	736.7	735.9	716.4	694.6	670.3	650.4
12.5°	834.7	832.6	824.3	805.6	782.2	763.5	761.8	743.8	722.6	696.0	672.2
15°	852.3	853.8	842.6	821.4	798.6	782.8	781.3	768.5	749.6	722.8	695.4
17.5°	854.6	855.8	845.0	824.1	805.4	794.6	794.0	785.5	771.8	746.1	717.4
20°	841.3	842.1	833.2	816.0	803.7	800.4	800.2	796.5	786.3	763.5	735.7
22.5°	822.0	822.6	816.2	803.7	799.6	804.8	806.2	804.8	797.5	776.1	750.0
25°	817.2	816.8	810.2	797.5	801.0	812.0	813.9	814.5	809.6	790.9	768.3
27.5°	840.3	838.8	826.2	805.8	808.1	821.4	823.9	829.9	826.8	810.4	789.0
30°	906.9	904.4	878.5	837.4	826.2	833.0	836.1	845.7	846.3	832.6	816.6
32.5°	1019.4	1016.3	969.8	896.3	856.7	844.8	847.7	862.1	869.7	859.2	841.9
35°	1161.5	1158.0	1097.0	996.5	907.7	867.5	869.5	880.9	896.3	881.4	858.5
37.5°	1309.7	1301.2	1242.5	1114.4	988.9	915.8	915.8	917.3	924.5	893.4	878.0
40°	1457.0	1448.5	1395.4	1253.0	1093.9	992.0	987.2	955.0	949.2	922.5	917.3
42.5°	1594.0	1591.5	1560.2	1409.7	1217.1	1066.9	1060.2	1005.7	1006.9	990.3	990.5
45°	1739.7	1739.7	1714.2	1567.9	1360.7	1187.3	1180.6	1100.3	1112.8	1105.1	1123.5
47.5°	1858.6	1862.3	1858.8	1732.6	1527.8	1340.2	1328.2	1231.5	1266.3	1292.7	1346.4
50°	1980.0	1985.8	1986.4	1913.4	1729.7	1522.0	1508.3	1405.6	1483.4	1558.9	1664.6
52.5°	2156.2	2169.3	2117.2	2093.7	1977.1	1737.8	1724.3	1629.5	1759.4	1865.4	2047.4
55°	2319.5	2308.1	2270.9	2285.5	2241.9	1983.5	1973.4	1890.1	2067.0	2204.7	2441.1
57.5°	2407.9	2407.1	2444.4	2506.7	2527.5	2286.5	2278.0	2197.1	2413.7	2517.3	2810.7
60°	2511.7	2513.1	2605.7	2747.0	2832.5	2663.8	2660.1	2598.6	2750.5	2809.1	3100.6
62.5°	2526.2	2552.4	2711.7	2955.0	3118.1	3104.6	3112.9	2960.3	3051.9	3041.9	3317.1
65°	2359.1	2393.6	2682.1	3017.8	3402.0	3586.7	3594.3	3324.1	3289.5	3240.9	3394.5
67.5°	2016.7	2067.8	2381.1	2881.1	3495.6	3943.0	3953.8	3606.2	3486.6	3308.4	3208.1
70°	1467.6	1524.3	1839.7	2460.6	3328.7	4056.9	4069.2	3730.9	3494.1	3116.4	2738.7
72.5°	886.5	931.0	1191.0	1811.5	2809.5	3849.4	3871.2	3572.8	3190.1	2639.7	2022.3
75°	389.3	418.4	575.9	1043.9	2011.3	3184.9	3212.1	3058.1	2592.0	1918.4	1195.3
77.5°	165.8	174.1	236.2	453.4	1137.0	2176.3	2213.7	2234.4	1758.6	1043.9	505.1
80°	103.3	106.7	133.6	205.2	532.1	1222.3	1262.6	1314.7	873.3	383.7	176.4
82.5°	62.9	66.6	88.8	124.1	277.0	554.1	573.4	610.1	338.9	165.8	91.3
85°	37.8	40.5	54.4	78.4	157.7	217.9	217.7	240.7	159.6	106.7	48.1
87.5°	18.1	20.1	29.1	40.7	79.5	81.8	76.6	86.7	96.9	69.9	24.3
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: P348686

CATALOG NUMBER: ARCH-N-PA1-60-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8
2.5°	617.4	616.6	613.9	611.8	611.4	610.1	609.1	609.7	610.5	610.7	610.7
5°	617.2	614.9	611.4	609.9	611.8	614.3	617.4	621.5	624.0	625.9	627.1
7.5°	627.1	622.8	618.8	618.0	621.7	628.4	635.4	644.2	650.2	654.3	655.2
10°	643.7	638.3	634.4	635.2	641.9	651.4	661.4	672.6	681.7	687.3	687.7
12.5°	662.8	657.6	653.9	657.4	668.4	680.1	690.4	700.2	708.5	714.1	714.1
15°	684.8	681.1	676.7	684.8	699.8	710.2	714.5	719.3	723.8	728.0	727.2
17.5°	706.0	702.5	700.2	709.7	725.3	730.1	727.2	723.6	723.6	725.9	726.3
20°	724.3	721.2	722.6	731.9	740.0	735.1	724.3	713.1	708.5	709.7	711.0
22.5°	740.2	738.8	743.1	747.5	741.7	724.3	704.3	689.2	683.6	683.2	683.6
25°	758.9	758.7	764.1	756.2	730.5	698.3	671.6	656.8	653.7	656.2	660.3
27.5°	782.2	784.4	787.1	758.3	707.7	659.1	631.9	621.7	624.9	630.9	634.8
30°	811.8	818.1	812.3	753.1	674.9	614.3	588.3	585.4	593.9	602.4	606.6
32.5°	840.7	850.4	836.3	739.6	632.5	566.8	546.6	545.8	556.2	564.5	570.3
35°	863.9	883.2	854.4	712.8	583.6	523.0	508.2	502.6	506.4	516.1	522.8
37.5°	894.2	926.4	866.8	672.0	530.4	486.9	469.6	456.8	453.4	457.4	460.7
40°	949.6	992.2	872.6	614.9	478.6	450.7	433.3	414.4	401.4	391.8	392.0
42.5°	1040.1	1077.9	868.9	545.6	430.6	415.5	395.8	374.0	352.8	331.2	329.6
45°	1187.0	1205.3	857.7	472.1	388.5	378.5	360.1	338.3	310.0	285.6	283.3
47.5°	1422.2	1381.7	840.3	408.0	351.3	347.2	330.2	305.1	275.2	255.5	253.8
50°	1742.8	1636.3	831.8	356.9	318.6	319.8	305.9	279.3	251.1	236.6	234.9
52.5°	2126.3	1932.9	848.2	317.5	292.2	296.6	286.2	261.3	237.6	226.2	224.5
55°	2524.1	2240.0	865.8	288.9	267.3	275.8	272.3	251.7	230.4	219.8	218.3
57.5°	2864.7	2469.3	830.5	265.6	245.1	258.4	261.5	245.7	226.6	217.1	215.4
60°	3079.1	2561.7	738.0	243.8	227.4	244.5	255.3	244.0	228.1	227.2	226.0
62.5°	3180.7	2553.6	599.1	226.6	216.4	238.4	259.8	253.4	244.7	252.1	252.8
65°	3135.1	2431.6	446.2	215.2	208.6	240.7	273.5	271.0	249.4	256.9	258.0
67.5°	2834.6	2140.4	330.4	205.2	199.8	247.2	298.4	276.8	240.1	245.5	242.2
70°	2291.1	1696.9	254.8	194.0	190.9	246.3	309.6	273.3	229.9	231.2	222.3
72.5°	1579.9	1157.2	207.3	183.7	178.1	224.5	301.7	264.6	221.4	211.9	200.1
75°	859.2	621.1	176.2	172.9	155.4	197.1	287.2	258.4	213.8	201.1	194.5
77.5°	338.1	257.7	152.9	158.1	135.9	174.1	271.0	246.5	203.2	186.6	183.2
80°	138.0	131.6	126.8	136.8	116.8	152.3	251.5	232.6	190.5	173.1	166.4
82.5°	78.2	81.8	98.6	107.9	94.8	140.3	242.2	221.4	175.4	155.0	147.1
85°	40.1	47.9	68.7	77.4	69.7	119.3	223.1	193.8	140.7	118.7	119.3
87.5°	19.3	26.8	43.4	48.6	45.2	86.3	166.6	140.5	109.6	86.7	84.0
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)