

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: P397681

Luminaire Tested: **ARCH-S-PA1-30-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3977 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 31
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

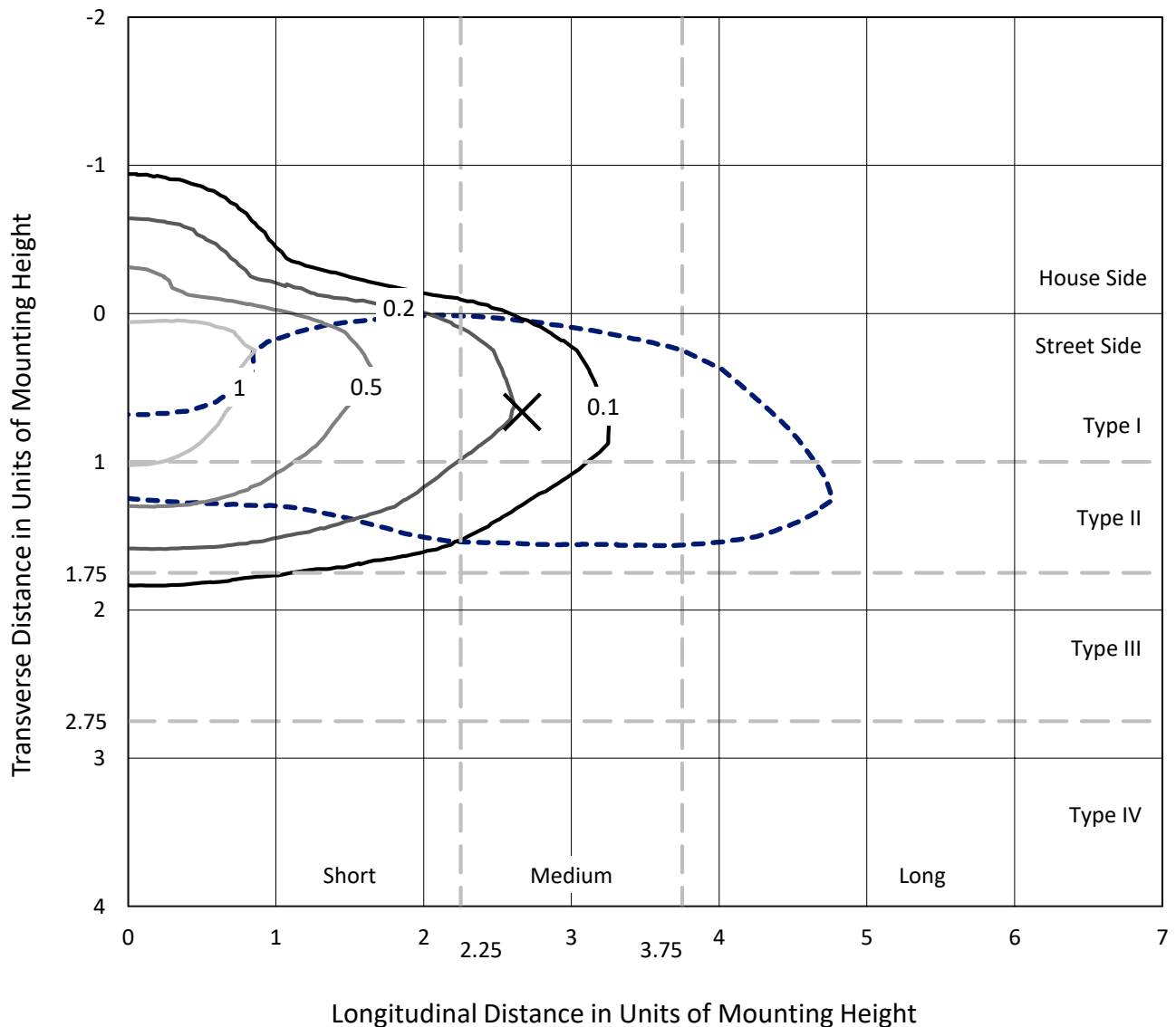


REPORT NUMBER: P397681

CATALOG NUMBER: ARCH-S-PA1-30-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

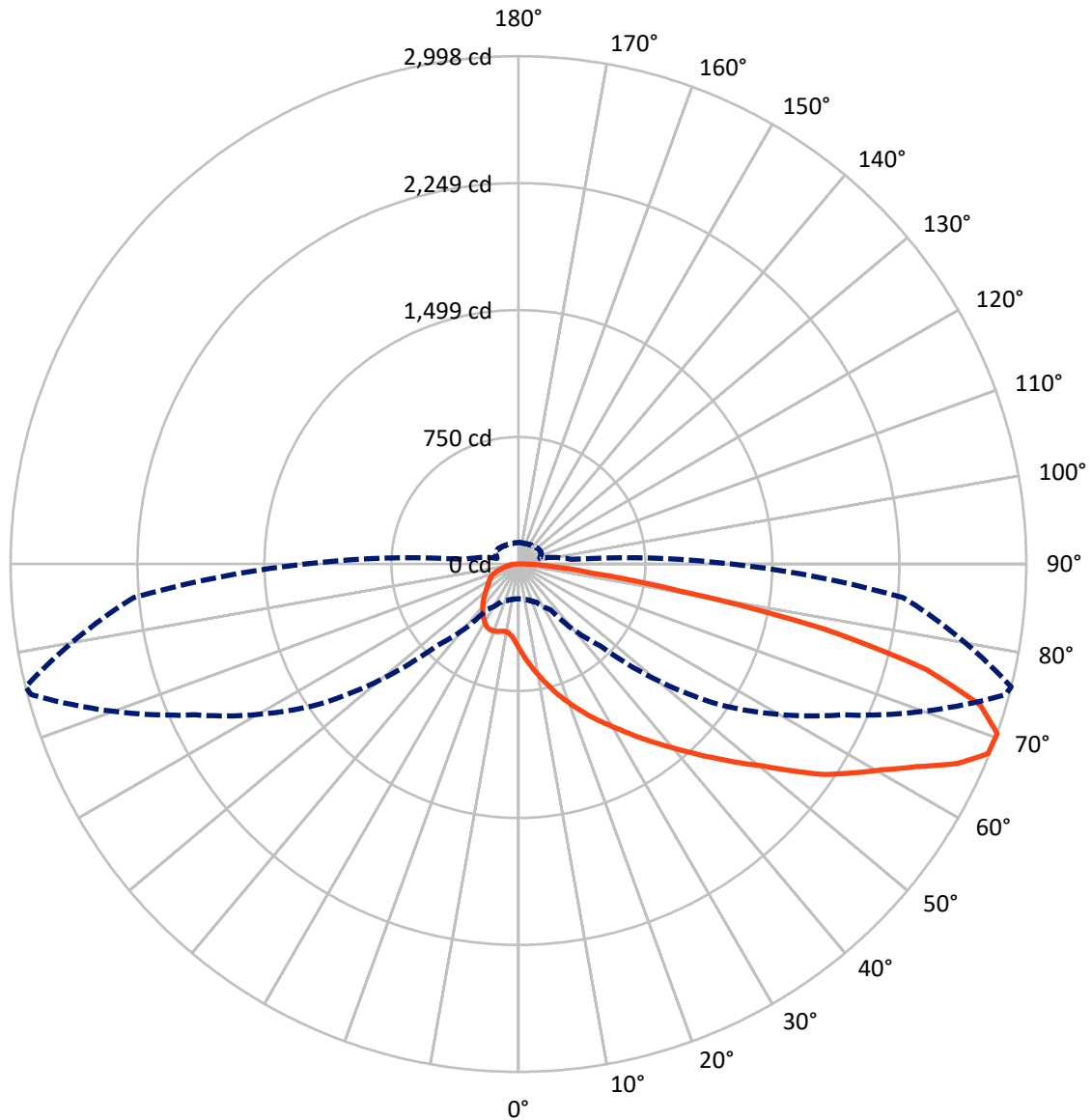


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - Non-Cutoff

REPORT NUMBER: P397681

CATALOG NUMBER: ARCH-S-PA1-30-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P397681

CATALOG NUMBER: ARCH-S-PA1-30-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	649.3	0.0	649.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	3327.7	0.0	3327.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	3977.0	0.0	3977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.3
10°-20°	175.6	4.4
20°-30°	314.2	7.9
30°-40°	508.3	12.8
40°-50°	735.3	18.5
50°-60°	841.6	21.2
60°-70°	774.2	19.5
70°-80°	478.8	12.0
80°-90°	97.2	2.4
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°	3977.0	100.0
0°-180°	3977.0	100.0

Coefficient of Utilization



REPORT NUMBER: P397681

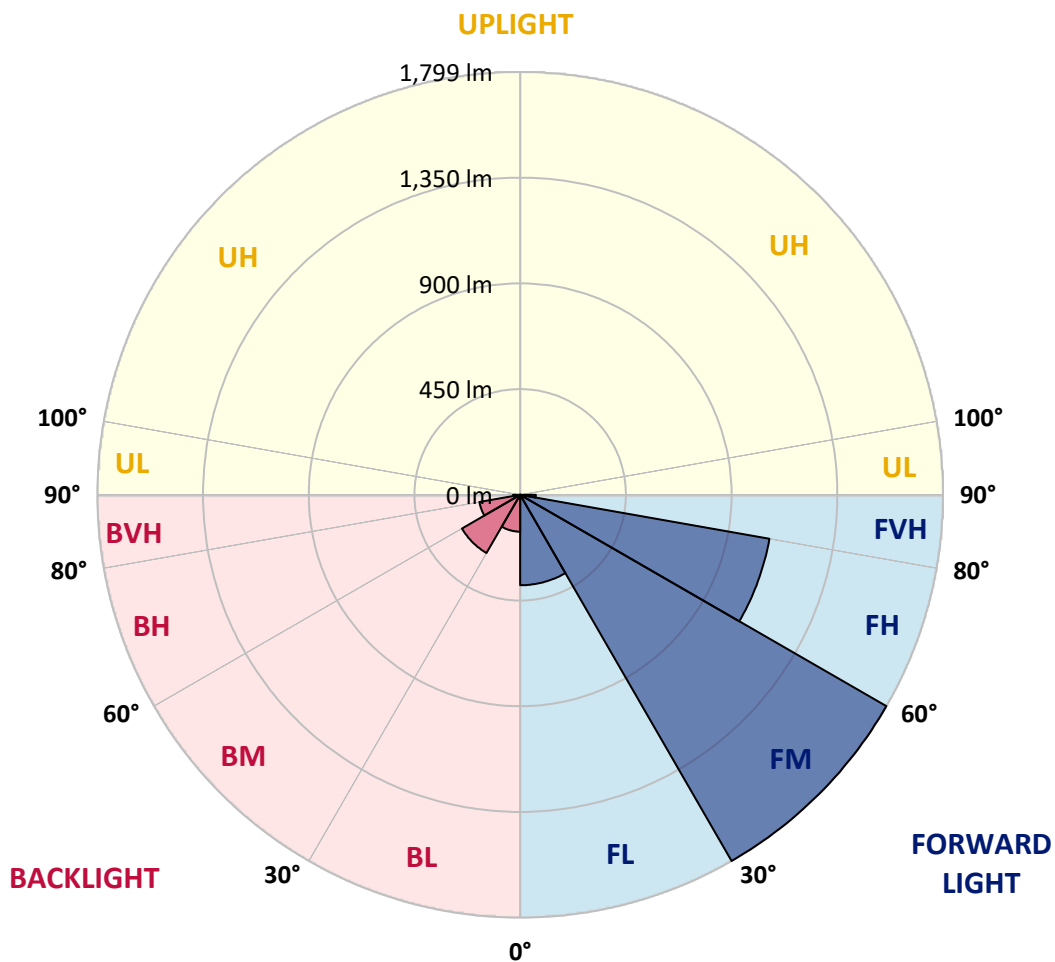
CATALOG NUMBER: ARCH-S-PA1-30-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.7	9.7			
FM	(30°-60°)	1799.4	45.2			
FH	(60°-80°)	1076.9	27.1			G1/1800
FVH	(80°-90°)	66.7	1.7			G1/100
BL	(0°-30°)	156.8	3.9	B1/500		
BM	(30°-60°)	285.9	7.2	B1/1000		
BH	(60°-80°)	176.1	4.4	B1/500		G1/500
BVH	(80°-90°)	30.5	0.8			G1/100
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 Medium





REPORT NUMBER: P397681

CATALOG NUMBER: ARCH-S-PA1-30-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	497.3	497.3	497.3	497.3	497.3	497.3	497.3	497.3	497.3	497.3	497.3
2.5°	633.8	629.1	628.6	621.3	614.5	596.2	583.1	560.1	537.1	536.6	513.6
5°	732.7	728.0	725.4	716.5	705.0	680.9	657.4	621.8	582.6	580.0	536.6
7.5°	799.6	795.4	790.2	786.5	775.6	754.1	725.4	683.0	629.1	623.9	563.2
10°	844.6	842.0	840.9	838.3	831.5	814.3	786.5	741.6	675.7	669.9	591.5
12.5°	863.9	862.9	867.6	874.9	877.5	870.7	844.1	801.7	726.9	720.6	625.5
15°	841.5	842.5	854.5	879.6	906.3	920.9	905.3	863.9	785.0	776.1	665.2
17.5°	831.0	832.6	840.9	865.0	902.6	948.1	955.5	923.0	840.9	828.4	707.1
20°	849.3	851.4	857.7	876.5	902.6	951.3	989.5	979.5	895.8	882.8	747.3
22.5°	895.8	898.5	897.9	910.0	927.7	961.2	1008.3	1032.9	953.4	938.7	789.2
25°	995.2	993.1	975.3	969.6	974.3	995.7	1033.4	1084.1	1013.5	998.9	833.1
27.5°	1130.1	1127.5	1095.1	1065.8	1039.7	1049.1	1068.9	1125.4	1074.7	1058.0	874.9
30°	1274.5	1271.3	1233.7	1186.1	1128.0	1114.4	1111.8	1161.5	1136.4	1118.6	919.4
32.5°	1415.1	1412.5	1372.3	1316.8	1236.8	1196.0	1170.9	1201.8	1206.5	1189.2	968.0
35°	1543.3	1543.3	1508.8	1442.9	1352.4	1290.7	1249.4	1251.5	1287.0	1267.1	1023.4
37.5°	1657.3	1656.8	1619.1	1554.3	1467.4	1396.8	1345.6	1311.6	1363.9	1346.6	1081.5
40°	1747.8	1744.1	1716.4	1659.9	1572.6	1502.5	1450.7	1382.2	1449.7	1434.0	1143.2
42.5°	1813.6	1811.6	1792.7	1743.6	1660.4	1594.5	1559.0	1471.1	1546.9	1531.2	1215.4
45°	1839.3	1843.5	1843.5	1796.9	1731.0	1670.9	1655.2	1568.9	1652.1	1636.4	1292.8
47.5°	1798.0	1808.9	1831.4	1834.6	1776.5	1735.7	1741.0	1667.2	1760.3	1751.9	1377.5
50°	1668.8	1689.2	1738.3	1827.2	1794.8	1785.4	1814.2	1767.6	1876.4	1873.8	1480.5
52.5°	1335.7	1385.3	1538.6	1698.1	1782.3	1808.4	1886.9	1880.6	2026.0	2030.2	1614.9
55°	1024.5	1043.3	1220.6	1492.0	1705.4	1801.1	1935.5	1990.9	2188.1	2193.3	1738.3
57.5°	828.4	840.9	937.7	1220.6	1530.2	1761.4	1973.7	2055.3	2312.6	2326.2	1848.2
60°	656.3	674.6	739.5	934.0	1284.9	1665.6	2000.3	2126.9	2446.4	2466.8	1979.4
62.5°	487.9	496.8	558.0	691.9	1017.2	1493.6	1986.2	2204.8	2610.6	2635.2	2137.4
65°	347.2	355.1	398.5	492.1	752.0	1260.9	1904.1	2262.9	2816.7	2841.8	2296.3
67.5°	259.9	263.1	287.6	344.1	506.8	979.5	1737.8	2252.9	2967.3	2989.8	2360.1
70°	205.5	206.6	218.6	248.9	329.5	681.9	1446.5	2107.0	2978.3	2998.2	2279.6
72.5°	170.5	170.0	176.8	191.4	229.6	431.4	1071.6	1836.1	2837.1	2850.7	2054.7
75°	140.7	141.7	146.4	154.8	175.2	284.5	694.5	1464.8	2502.9	2488.3	1724.2
77.5°	118.2	117.7	119.8	127.1	141.7	204.5	406.9	1058.5	1855.0	1847.6	1131.7
80°	95.2	96.2	99.4	105.6	119.2	155.8	240.6	660.5	995.2	968.5	540.7
82.5°	63.8	73.7	80.0	87.3	103.0	115.1	152.7	335.7	445.0	438.2	245.3
85°	30.3	40.3	59.6	68.0	83.7	72.2	103.5	160.0	222.8	220.2	88.4
87.5°	6.3	6.3	31.9	38.2	51.8	30.9	57.5	69.6	107.7	100.9	36.1
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: P397681

CATALOG NUMBER: ARCH-S-PA1-30-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	497.3	497.3	497.3	497.3	497.3	497.3	497.3	497.3	497.3	497.3	497.3
2.5°	500.0	485.8	457.6	435.1	412.1	399.0	382.8	375.0	373.4	369.2	372.4
5°	508.8	481.1	427.8	392.7	369.2	357.7	352.0	349.9	349.3	348.3	348.3
7.5°	520.9	478.5	409.0	373.4	358.2	354.6	356.1	359.3	359.8	360.8	360.3
10°	535.5	479.0	398.5	368.7	361.4	361.9	367.1	371.3	373.4	375.0	374.4
12.5°	555.9	485.3	396.9	371.8	368.7	370.8	376.0	380.2	382.3	382.8	382.8
15°	582.6	498.4	400.6	378.6	376.0	377.6	380.7	382.3	382.8	382.3	382.3
17.5°	611.9	514.1	405.8	382.8	378.6	377.1	376.0	374.4	371.3	369.2	369.2
20°	640.1	528.2	408.4	382.3	375.0	368.7	362.4	354.6	349.3	345.2	345.2
22.5°	668.4	541.3	408.4	376.5	365.0	353.0	339.9	327.4	319.5	314.3	314.3
25°	698.2	553.8	405.3	366.6	349.3	332.1	314.3	298.6	290.8	285.5	284.5
27.5°	723.3	561.1	396.9	352.5	330.0	308.0	287.6	271.4	265.7	261.0	261.0
30°	749.9	565.8	381.2	334.2	308.0	282.9	262.0	248.9	242.7	235.9	235.3
32.5°	779.7	569.0	363.5	314.8	285.5	258.9	241.1	230.6	217.0	209.7	208.7
35°	814.3	573.2	344.6	292.9	263.1	239.0	228.5	211.3	198.2	191.9	191.4
37.5°	850.9	576.3	324.2	273.5	242.7	225.9	215.5	195.1	183.6	174.1	173.1
40°	889.6	576.3	303.3	254.7	226.4	220.2	200.3	182.0	162.6	157.9	156.9
42.5°	932.4	575.3	282.4	236.4	211.3	207.1	191.4	172.1	162.1	157.9	156.9
45°	977.9	571.6	262.5	215.5	195.6	187.2	175.2	170.0	165.8	165.8	165.8
47.5°	1029.7	568.5	240.0	196.6	184.1	174.7	165.8	162.6	162.1	163.7	165.3
50°	1096.1	567.4	221.2	183.0	175.2	164.2	163.2	160.6	161.1	161.1	161.1
52.5°	1176.7	558.0	203.4	173.1	166.3	153.2	156.4	159.0	160.0	159.5	159.0
55°	1235.8	541.3	188.3	166.3	160.0	149.0	153.2	157.4	158.5	156.9	156.9
57.5°	1289.1	517.7	176.2	161.1	155.8	146.4	151.1	155.3	154.3	153.8	153.2
60°	1350.3	495.2	166.8	158.5	151.7	145.4	149.6	152.2	150.6	149.6	149.0
62.5°	1416.7	473.3	160.0	158.5	148.5	144.9	148.0	149.0	145.9	144.9	144.9
65°	1447.6	438.8	152.7	158.5	147.0	143.8	144.9	143.8	140.7	140.7	140.2
67.5°	1396.8	381.8	143.3	156.4	149.0	142.2	140.2	138.6	134.9	134.9	133.9
70°	1256.7	313.8	129.7	149.6	149.6	141.7	133.9	130.2	126.0	127.6	125.5
72.5°	1073.6	248.9	113.0	138.1	146.4	141.2	127.1	121.3	117.7	119.2	116.1
75°	869.7	193.0	93.1	119.8	138.6	138.6	120.3	112.4	108.3	108.3	104.6
77.5°	554.3	142.8	75.8	99.4	124.5	134.9	114.5	102.5	96.2	94.7	92.0
80°	274.6	100.4	62.2	79.0	106.2	126.6	110.3	91.0	82.1	79.0	74.3
82.5°	145.9	69.6	49.7	61.7	84.7	114.0	105.1	78.4	67.5	62.8	57.5
85°	65.4	42.9	39.7	47.1	64.3	93.6	94.7	64.3	51.8	61.7	45.5
87.5°	24.1	19.3	19.3	24.1	37.1	39.2	66.9	41.3	32.9	22.5	17.8
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)