

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: P573299

Luminaire Tested: **ARCH-S-PA2-60-727-U-T4W**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-60-727-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7885 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

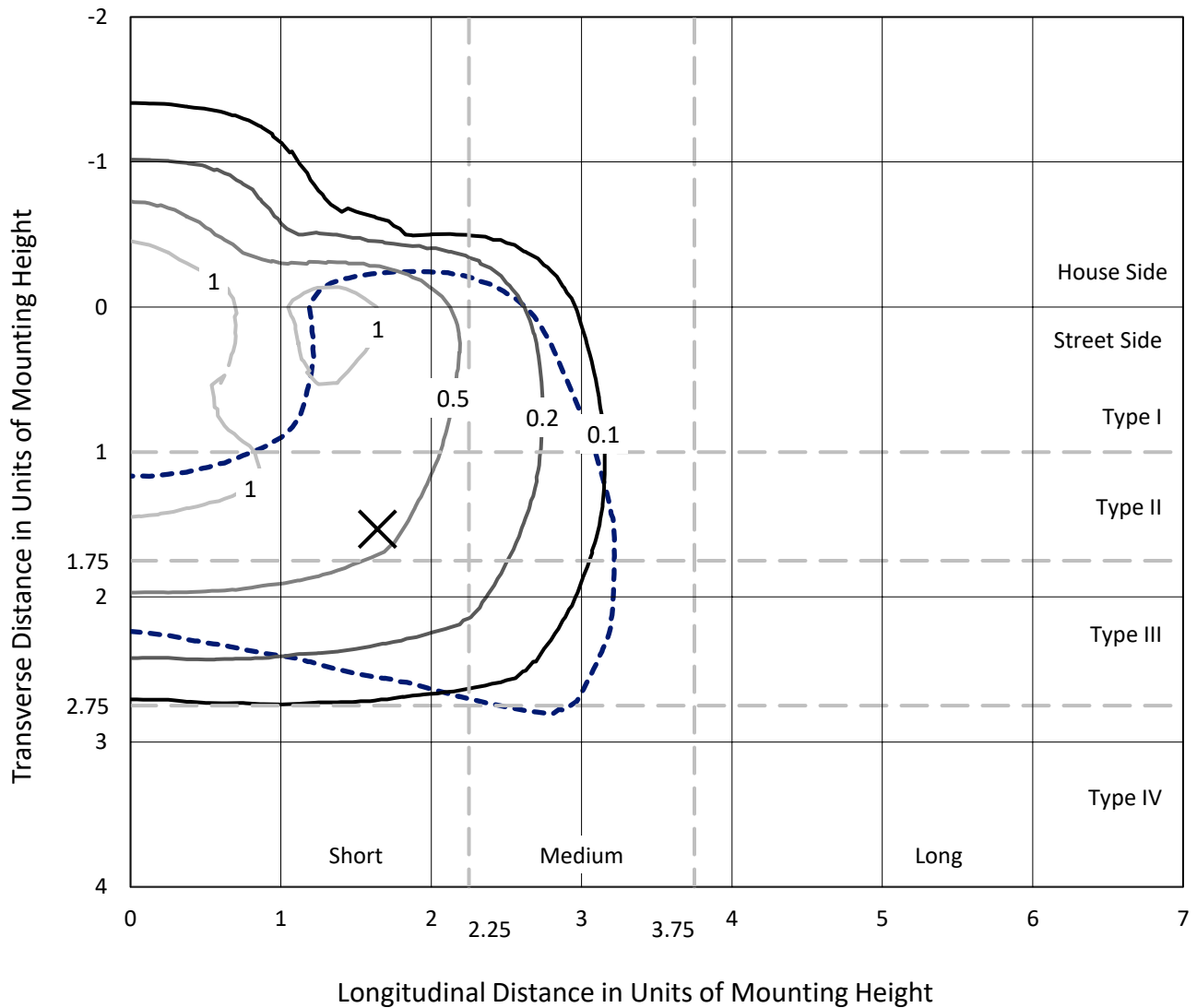
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P573299  
 CATALOG NUMBER: ARCH-S-PA2-60-727-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

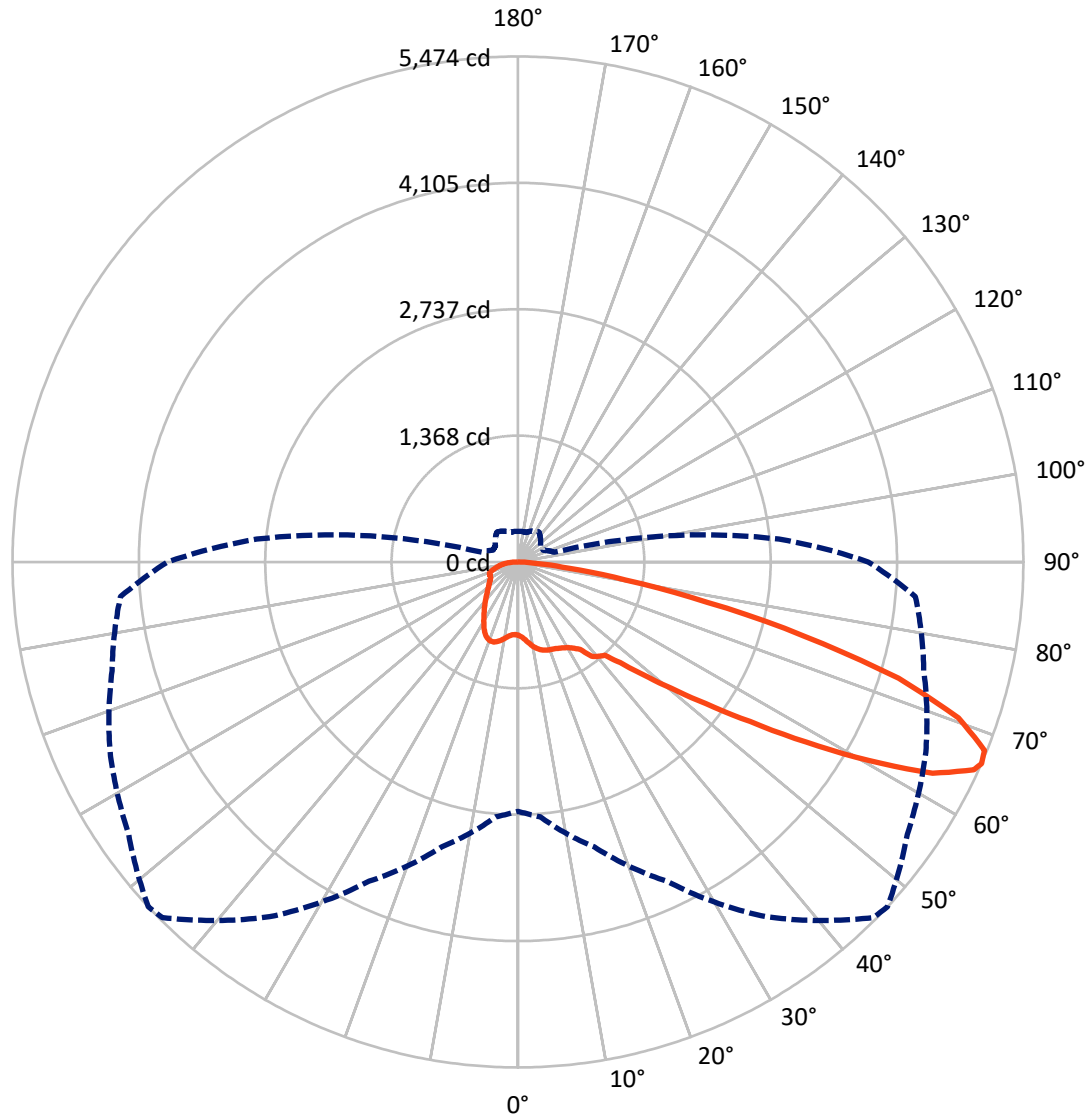
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P573299  
CATALOG NUMBER: ARCH-S-PA2-60-727-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P573299  
 CATALOG NUMBER: ARCH-S-PA2-60-727-U-T4W

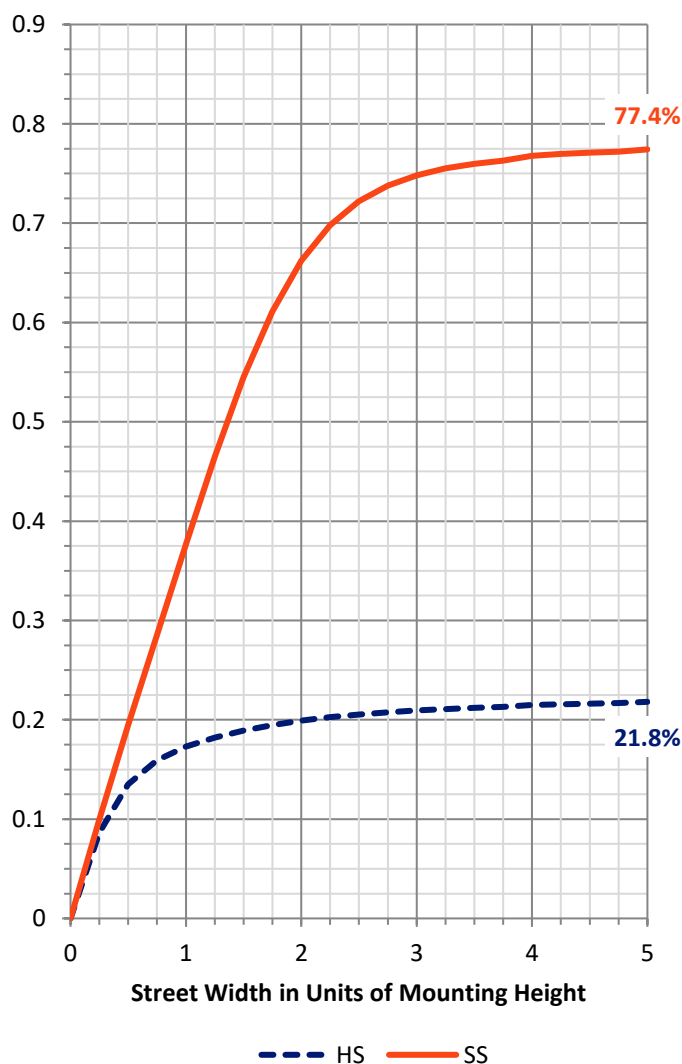
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1753.1	0.0	1753.1
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	6131.9	0.0	6131.9
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	7885.0	0.0	7885.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.7	1.0
10°-20°	264.7	3.4
20°-30°	441.4	5.6
30°-40°	641.0	8.1
40°-50°	980.3	12.4
50°-60°	1853.0	23.5
60°-70°	2394.3	30.4
70°-80°	1076.2	13.6
80°-90°	153.5	1.9
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°	7885.0	100.0
0°-180°	7885.0	100.0

**Coefficient of Utilization**

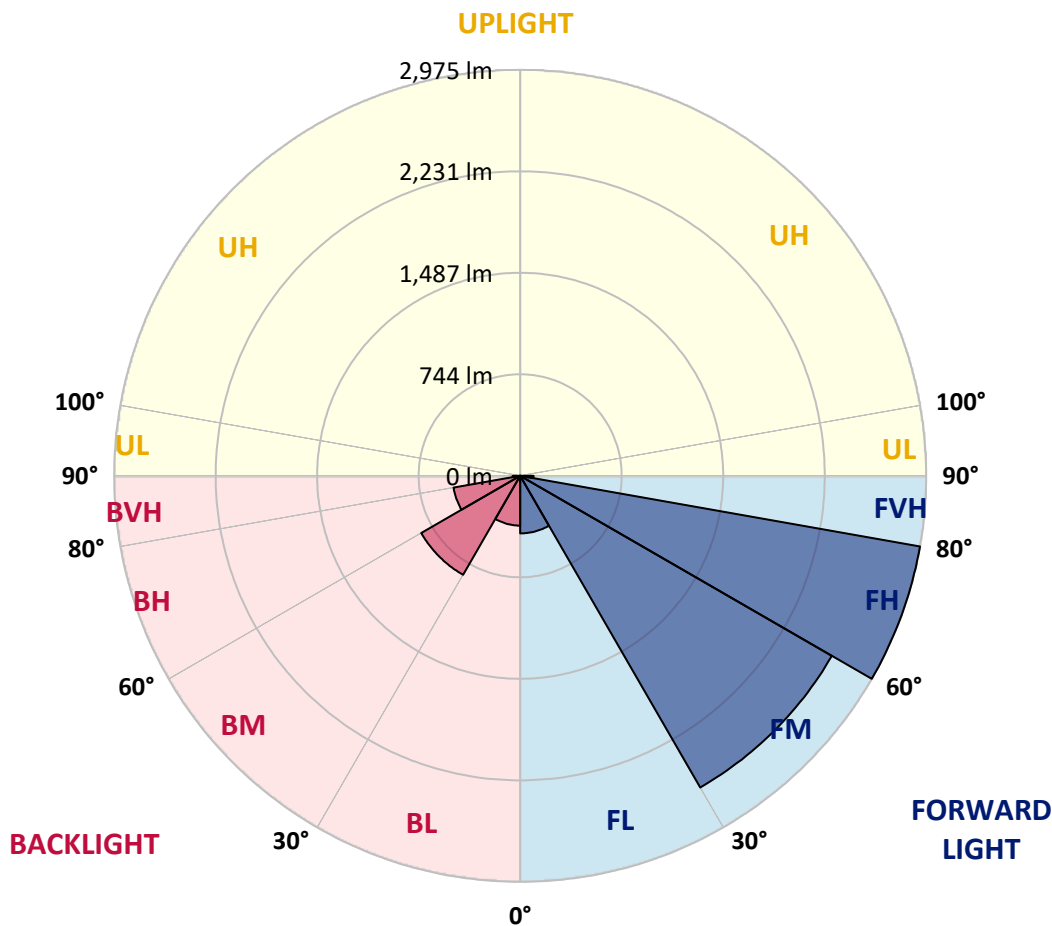


REPORT NUMBER: P573299  
 CATALOG NUMBER: ARCH-S-PA2-60-727-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.9	5.4			
FM (30°-60°)	2636.9	33.4			
FH (60°-80°)	2974.5	37.7			G2/5000
FVH (80°-90°)	98.6	1.3			G1/100
BL (0°-30°)	364.8	4.6	B1/500		
BM (30°-60°)	837.3	10.6	B1/1000		
BH (60°-80°)	496.0	6.3	B1/500		G1/500
BVH (80°-90°)	54.9	0.7			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 III Short





REPORT NUMBER: P573299

CATALOG NUMBER: ARCH-S-PA2-60-727-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7
2.5°	837.7	831.2	827.0	824.8	820.5	812.0	812.0	809.8	801.3	797.0	794.8
5°	904.1	899.8	889.1	880.5	867.7	850.5	848.4	835.5	818.4	805.5	797.0
7.5°	968.4	964.1	953.4	940.5	919.1	897.7	891.2	874.1	846.2	827.0	812.0
10°	1024.1	1017.6	1004.8	987.6	964.1	940.5	934.1	914.8	886.9	859.1	833.4
12.5°	1060.5	1056.2	1041.2	1019.8	994.1	970.5	966.2	949.1	921.2	891.2	859.1
15°	1077.6	1075.5	1058.3	1036.9	1011.2	991.9	989.8	974.8	951.2	921.2	884.8
17.5°	1073.3	1071.2	1056.2	1034.8	1015.5	1004.8	1004.8	994.1	974.8	949.1	910.5
20°	1051.9	1051.9	1039.1	1024.1	1013.3	1011.2	1011.2	1009.1	996.2	974.8	936.2
22.5°	1030.5	1030.5	1021.9	1011.2	1009.1	1017.6	1019.8	1024.1	1019.8	1002.6	968.4
25°	1034.8	1032.6	1021.9	1009.1	1011.2	1030.5	1034.8	1045.5	1043.3	1030.5	1000.5
27.5°	1081.9	1079.8	1051.9	1026.2	1024.1	1047.6	1051.9	1066.9	1066.9	1056.2	1036.9
30°	1199.7	1204.0	1152.6	1088.3	1056.2	1071.2	1075.5	1092.6	1101.2	1105.5	1090.5
32.5°	1379.7	1373.3	1296.1	1191.2	1120.5	1105.5	1111.9	1126.9	1156.9	1165.5	1129.0
35°	1561.8	1566.1	1491.1	1358.3	1223.3	1167.6	1163.3	1184.7	1229.7	1191.2	1126.9
37.5°	1731.0	1724.6	1636.8	1493.2	1358.3	1294.0	1296.1	1287.6	1249.0	1171.9	1141.9
40°	1915.3	1898.2	1825.3	1641.1	1469.7	1362.6	1343.3	1270.4	1238.3	1206.2	1201.9
42.5°	2097.4	2099.5	2039.6	1857.4	1602.5	1411.8	1381.8	1306.9	1328.3	1321.9	1317.6
45°	2326.6	2326.6	2266.6	2097.4	1812.5	1596.1	1555.4	1465.4	1499.7	1525.4	1576.8
47.5°	2536.6	2523.7	2506.6	2363.1	2086.7	1836.0	1818.9	1716.1	1806.0	1885.3	1990.3
50°	2759.4	2742.3	2731.5	2643.7	2446.6	2200.2	2148.8	2041.7	2238.8	2386.6	2581.6
52.5°	3106.5	3076.5	3020.8	2971.5	2894.4	2609.4	2545.2	2465.9	2720.8	2907.2	3305.7
55°	3419.2	3393.5	3340.0	3376.4	3365.7	3106.5	3050.8	2975.8	3252.1	3479.2	3935.6
57.5°	3534.9	3537.1	3609.9	3804.9	3907.7	3757.7	3678.5	3603.5	3837.0	3942.0	4353.3
60°	3588.5	3582.1	3770.6	4087.7	4421.9	4466.9	4366.2	4211.9	4299.8	4306.2	4706.8
62.5°	3472.8	3489.9	3749.2	4205.5	4730.4	5053.9	5038.9	4768.9	4687.5	4597.6	4801.1
65°	3033.6	3057.2	3438.5	3995.5	4779.7	5409.5	5424.5	5109.6	4882.5	4631.8	4533.3
66°	2699.4	2770.1	3194.3	3813.4	4689.7	5445.9	5473.8	5146.0	4873.9	4550.4	4321.2
67.5°	2264.5	2260.2	2733.7	3412.8	4439.0	5413.8	5450.2	5094.6	4758.2	4310.5	3897.0
70°	1386.1	1429.0	1836.0	2547.3	3674.2	5013.2	5062.5	4732.5	4259.1	3650.6	2881.5
72.5°	711.3	782.0	1049.8	1656.1	2667.3	4143.4	4310.5	3974.1	3481.4	2641.6	1758.9
75°	377.1	372.8	494.9	897.7	1703.2	3108.6	3196.4	2980.1	2405.9	1574.7	895.5
77.5°	201.4	212.1	259.2	460.6	936.2	1986.0	2097.4	1921.7	1371.1	805.5	428.5
80°	137.1	143.5	175.7	259.2	507.7	1077.6	1180.5	1024.1	717.7	381.3	201.4
82.5°	87.8	92.1	120.0	160.7	304.2	522.7	550.6	524.9	351.4	216.4	122.1
85°	53.6	55.7	72.8	102.8	190.7	212.1	220.7	222.8	197.1	141.4	66.4
87.5°	25.7	27.9	40.7	51.4	90.0	77.1	70.7	72.8	109.3	83.6	30.0
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: P573299

CATALOG NUMBER: ARCH-S-PA2-60-727-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7
2.5°	792.7	790.5	786.3	784.1	786.3	786.3	786.3	788.4	792.7	792.7	794.8
5°	792.7	788.4	784.1	784.1	788.4	792.7	797.0	805.5	809.8	812.0	812.0
7.5°	803.4	799.1	794.8	794.8	801.3	809.8	818.4	829.1	839.8	848.4	848.4
10°	824.8	818.4	814.1	816.2	827.0	837.7	848.4	861.2	872.0	882.7	882.7
12.5°	848.4	842.0	835.5	839.8	854.8	867.7	878.4	884.8	895.5	904.1	904.1
15°	872.0	861.2	859.1	867.7	882.7	891.2	895.5	895.5	899.8	908.4	908.4
17.5°	897.7	886.9	884.8	893.4	906.2	906.2	897.7	891.2	889.1	895.5	897.7
20°	923.4	912.7	912.7	919.1	916.9	901.9	886.9	876.2	867.7	874.1	876.2
22.5°	955.5	944.8	940.5	931.9	912.7	882.7	859.1	846.2	839.8	844.1	848.4
25°	987.6	979.1	968.4	938.4	893.4	846.2	816.2	805.5	807.7	816.2	820.5
27.5°	1028.3	1024.1	998.4	934.1	859.1	794.8	764.8	762.7	771.3	784.1	790.5
30°	1077.6	1071.2	1026.2	921.2	812.0	734.8	713.4	717.7	730.6	741.3	747.7
32.5°	1111.9	1107.6	1039.1	891.2	754.1	681.3	664.1	664.1	670.6	685.6	692.0
35°	1122.6	1139.7	1047.6	846.2	685.6	634.1	617.0	606.3	606.3	619.1	623.4
37.5°	1159.0	1197.6	1051.9	786.3	629.9	591.3	569.9	550.6	544.2	542.0	542.0
40°	1242.6	1287.6	1049.8	709.1	576.3	548.5	522.7	501.3	484.2	460.6	462.8
42.5°	1388.3	1422.5	1043.3	627.7	529.2	509.9	484.2	458.5	430.6	404.9	402.8
45°	1668.9	1617.5	1026.2	557.0	486.3	475.6	452.0	422.0	387.8	364.2	364.2
47.5°	2112.4	1971.0	1015.5	490.6	447.8	445.6	424.2	392.1	357.8	340.6	338.5
50°	2720.8	2459.5	1032.6	443.5	413.5	419.9	402.8	372.8	344.9	329.9	327.8
52.5°	3419.2	2984.3	1051.9	413.5	387.8	400.6	392.1	364.2	336.4	323.5	321.4
55°	3959.1	3410.7	1024.1	385.6	362.1	381.3	381.3	355.6	332.1	319.2	319.2
57.5°	4338.3	3582.1	927.7	359.9	340.6	364.2	370.6	351.4	329.9	325.6	325.6
60°	4501.1	3573.5	758.4	336.4	325.6	347.1	364.2	347.1	334.2	344.9	347.1
62.5°	4413.3	3387.1	589.2	319.2	314.9	342.8	370.6	364.2	349.2	357.8	362.1
65°	4017.0	3059.3	443.5	304.2	302.1	344.9	387.8	374.9	338.5	340.6	342.8
66°	3794.2	2838.7	407.1	299.9	297.8	347.1	396.3	370.6	329.9	334.2	332.1
67.5°	3318.6	2491.6	357.8	291.4	289.2	347.1	407.1	362.1	319.2	325.6	319.2
70°	2433.7	1763.2	306.4	280.7	276.4	340.6	404.9	344.9	295.6	291.4	280.7
72.5°	1411.8	1066.9	272.1	267.8	257.1	299.9	379.2	317.1	269.9	257.1	246.4
75°	694.1	542.0	242.1	252.8	225.0	263.5	342.8	293.5	248.5	231.4	225.0
77.5°	319.2	274.2	218.5	231.4	199.2	227.1	312.8	267.8	220.7	195.0	188.5
80°	173.5	171.4	184.2	192.8	167.1	199.2	276.4	233.5	186.4	158.5	150.0
82.5°	107.1	109.3	135.0	147.8	130.7	173.5	244.2	195.0	141.4	111.4	113.5
85°	55.7	62.1	90.0	98.5	85.7	128.5	184.2	130.7	79.3	57.8	57.8
87.5°	19.3	25.7	45.0	53.6	47.1	77.1	115.7	62.1	17.1	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)