

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: P573353

Luminaire Tested: **ARCH-S-PA2-60-827-U-T4W**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573353  
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-PA2-60-827-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 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: 6931 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

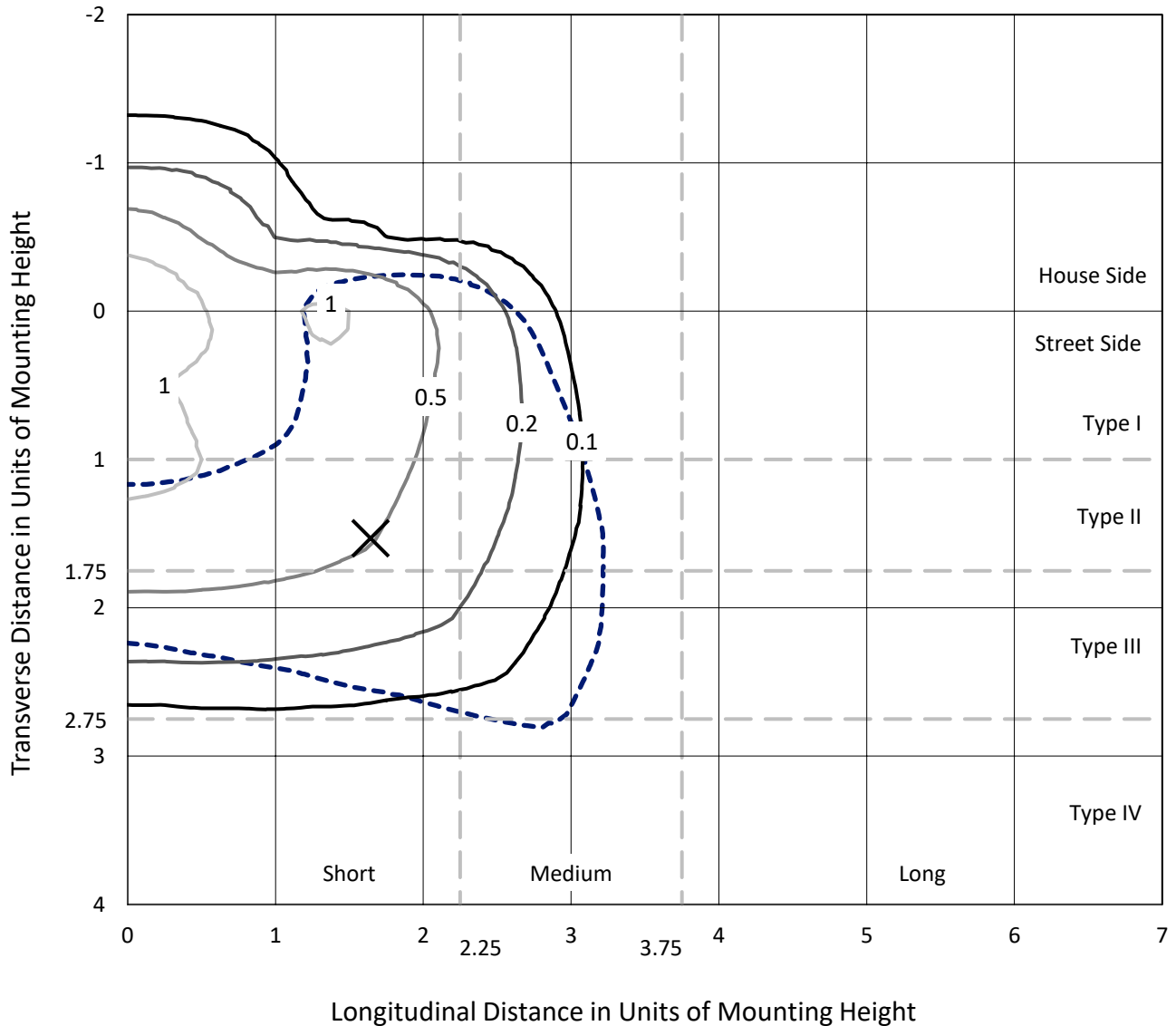
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

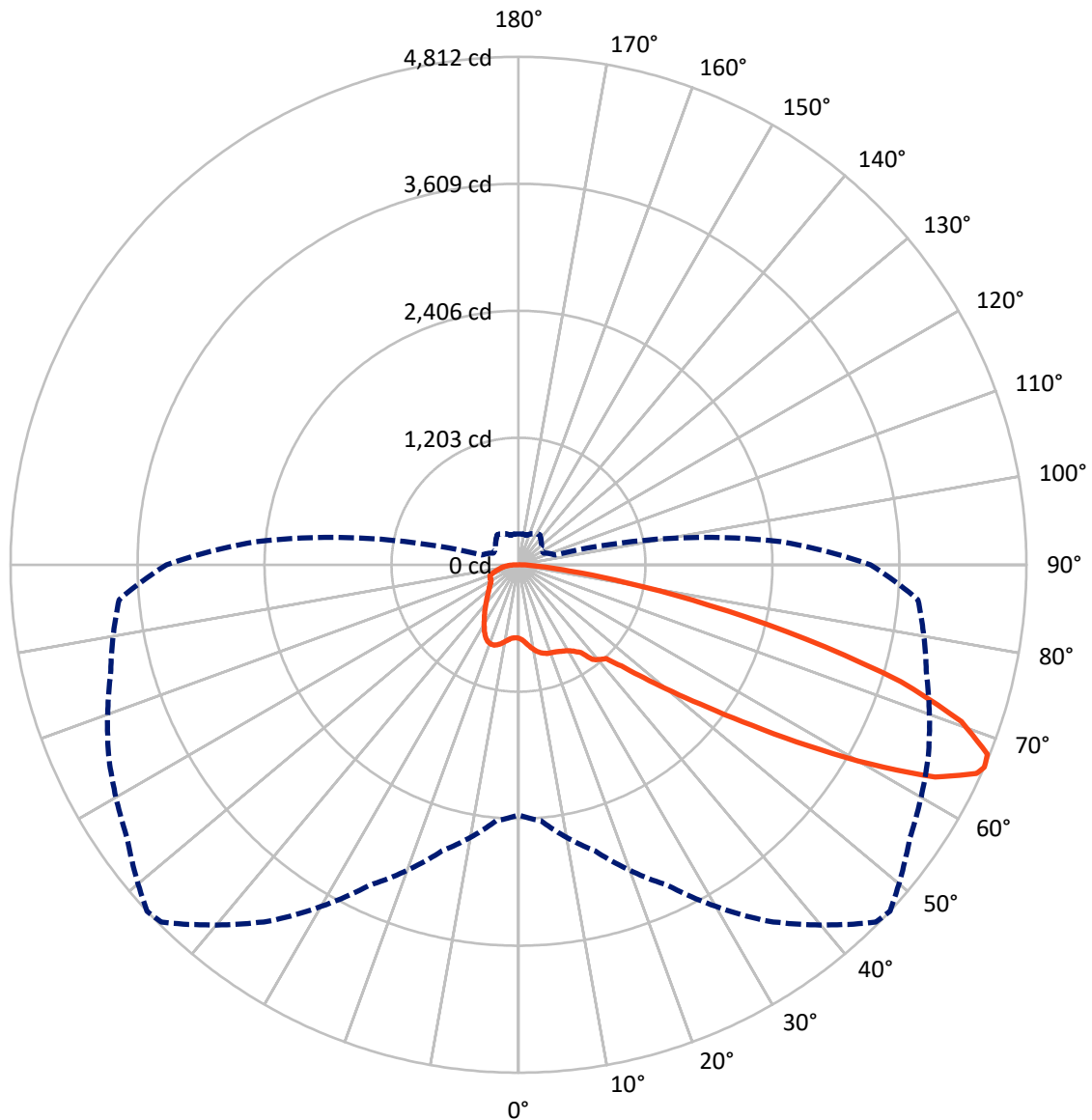
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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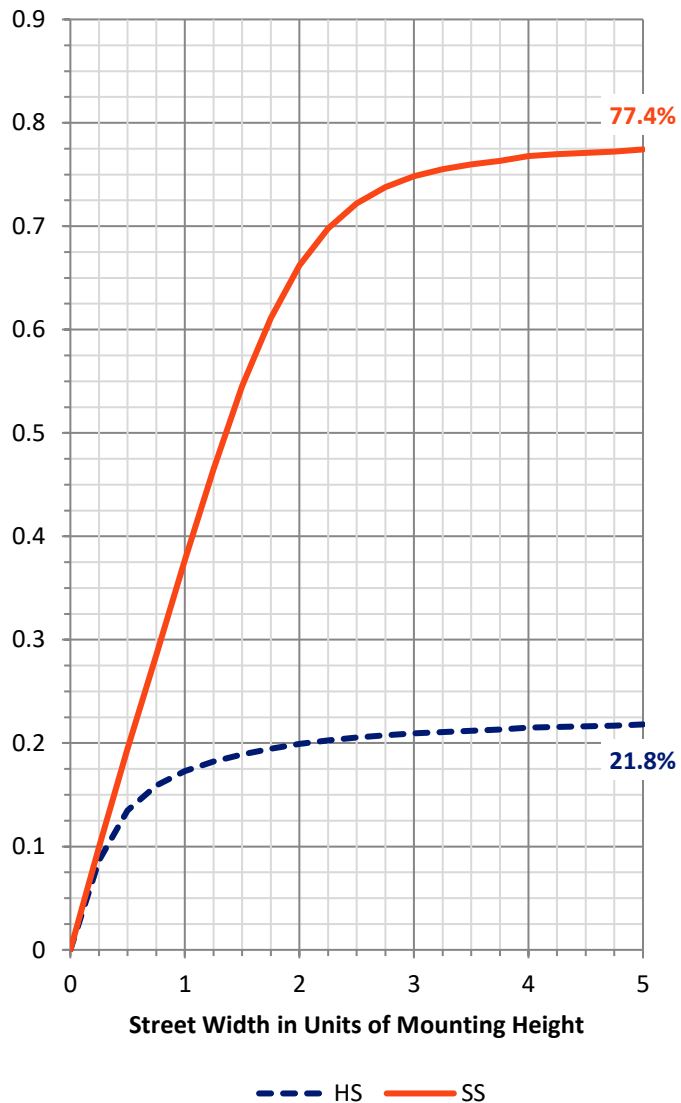
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1541.0	0.0	1541.0
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	5390.0	0.0	5390.0
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	6931.0	0.0	6931.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	1.0
10°-20°	232.6	3.4
20°-30°	388.0	5.6
30°-40°	563.4	8.1
40°-50°	861.7	12.4
50°-60°	1628.8	23.5
60°-70°	2104.6	30.4
70°-80°	946.0	13.6
80°-90°	134.9	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°	6931.0	100.0
0°-180°	6931.0	100.0

**Coefficient of Utilization**

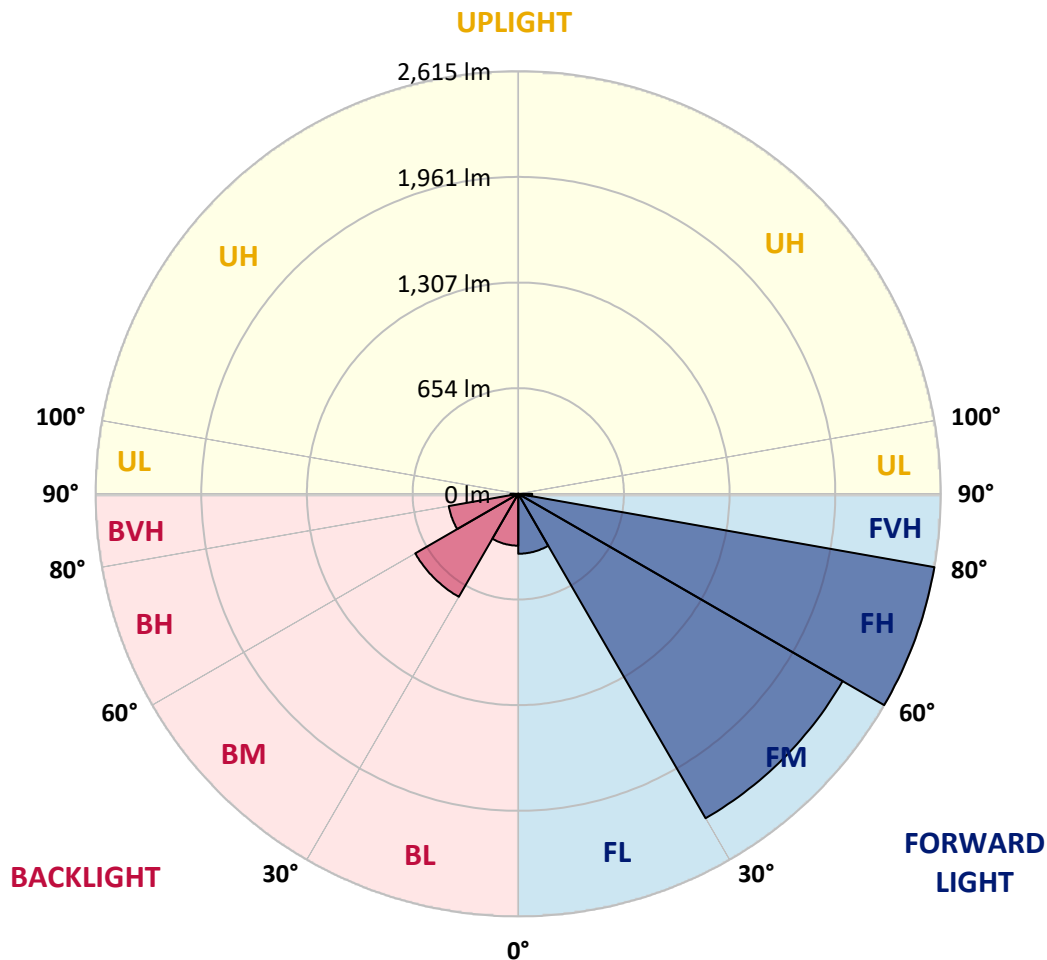


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.8	5.4			
FM (30°-60°)	2317.9	33.4			
FH (60°-80°)	2614.6	37.7			G2/5000
FVH (80°-90°)	86.7	1.3			G1/100
BL (0°-30°)	320.7	4.6	B1/500		
BM (30°-60°)	736.0	10.6	B1/1000		
BH (60°-80°)	436.0	6.3	B1/500		G1/500
BVH (80°-90°)	48.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	696.8	696.8	696.8	696.8	696.8	696.8	696.8	696.8	696.8	696.8	696.8
2.5°	736.3	730.7	726.9	725.0	721.3	713.7	713.7	711.8	704.3	700.5	698.7
5°	794.7	790.9	781.5	774.0	762.7	747.6	745.7	734.4	719.4	708.1	700.5
7.5°	851.2	847.4	838.0	826.7	807.9	789.1	783.4	768.3	743.9	726.9	713.7
10°	900.2	894.5	883.2	868.1	847.4	826.7	821.1	804.1	779.6	755.2	732.6
12.5°	932.2	928.4	915.2	896.4	873.8	853.1	849.3	834.2	809.8	783.4	755.2
15°	947.2	945.4	930.3	911.5	888.9	871.9	870.0	856.8	836.1	809.8	777.8
17.5°	943.5	941.6	928.4	909.6	892.6	883.2	883.2	873.8	856.8	834.2	800.4
20°	924.6	924.6	913.3	900.2	890.7	888.9	888.9	887.0	875.7	856.8	822.9
22.5°	905.8	905.8	898.3	888.9	887.0	894.5	896.4	900.2	896.4	881.3	851.2
25°	909.6	907.7	898.3	887.0	888.9	905.8	909.6	919.0	917.1	905.8	879.4
27.5°	951.0	949.1	924.6	902.0	900.2	920.9	924.6	937.8	937.8	928.4	911.5
30°	1054.6	1058.3	1013.2	956.7	928.4	941.6	945.4	960.4	968.0	971.7	958.5
32.5°	1212.8	1207.1	1139.3	1047.0	984.9	971.7	977.4	990.6	1016.9	1024.4	992.4
35°	1372.8	1376.6	1310.7	1193.9	1075.3	1026.3	1022.6	1041.4	1080.9	1047.0	990.6
37.5°	1521.6	1516.0	1438.7	1312.6	1193.9	1137.4	1139.3	1131.8	1097.9	1030.1	1003.7
40°	1683.6	1668.5	1604.5	1442.5	1291.9	1197.7	1180.8	1116.7	1088.5	1060.2	1056.5
42.5°	1843.6	1845.5	1792.8	1632.7	1408.6	1241.0	1214.7	1148.7	1167.6	1161.9	1158.2
45°	2045.1	2045.1	1992.4	1843.6	1593.2	1403.0	1367.2	1288.1	1318.2	1340.8	1386.0
47.5°	2229.7	2218.4	2203.3	2077.1	1834.2	1613.9	1598.8	1508.4	1587.5	1657.2	1749.5
50°	2425.5	2410.5	2401.1	2323.8	2150.6	1934.0	1888.8	1794.7	1967.9	2097.9	2269.2
52.5°	2730.6	2704.2	2655.3	2612.0	2544.2	2293.7	2237.2	2167.5	2391.6	2555.5	2905.7
55°	3005.6	2983.0	2935.9	2967.9	2958.5	2730.6	2681.6	2615.7	2858.7	3058.3	3459.4
57.5°	3107.2	3109.1	3173.2	3344.5	3434.9	3303.1	3233.4	3167.5	3372.8	3465.0	3826.6
60°	3154.3	3148.7	3314.4	3593.1	3886.9	3926.4	3837.9	3702.3	3779.5	3785.2	4137.3
62.5°	3052.6	3067.7	3295.6	3696.7	4158.1	4442.4	4429.2	4192.0	4120.4	4041.3	4220.2
65°	2666.6	2687.3	3022.5	3512.1	4201.4	4755.0	4768.2	4491.4	4291.8	4071.4	3984.8
66°	2372.8	2435.0	2807.8	3352.1	4122.3	4787.0	4811.5	4523.4	4284.2	3999.9	3798.4
67.5°	1990.5	1986.8	2402.9	2999.9	3901.9	4758.8	4790.8	4478.2	4182.5	3789.0	3425.5
70°	1218.4	1256.1	1613.9	2239.1	3229.7	4406.6	4450.0	4159.9	3743.8	3208.9	2532.9
72.5°	625.2	687.4	922.8	1455.7	2344.6	3642.1	3789.0	3493.3	3060.2	2322.0	1546.1
75°	331.4	327.7	435.0	789.1	1497.1	2732.5	2809.7	2619.5	2114.8	1384.1	787.2
77.5°	177.0	186.4	227.9	404.9	822.9	1745.7	1843.6	1689.2	1205.2	708.1	376.6
80°	120.5	126.2	154.4	227.9	446.3	947.2	1037.6	900.2	630.9	335.2	177.0
82.5°	77.2	81.0	105.5	141.2	267.4	459.5	484.0	461.4	308.8	190.2	107.3
85°	47.1	49.0	64.0	90.4	167.6	186.4	194.0	195.9	173.3	124.3	58.4
87.5°	22.6	24.5	35.8	45.2	79.1	67.8	62.1	64.0	96.0	73.4	26.4
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°	696.8	696.8	696.8	696.8	696.8	696.8	696.8	696.8	696.8	696.8	696.8
2.5°	696.8	694.9	691.1	689.2	691.1	691.1	691.1	693.0	696.8	696.8	698.7
5°	696.8	693.0	689.2	689.2	693.0	696.8	700.5	708.1	711.8	713.7	713.7
7.5°	706.2	702.4	698.7	698.7	704.3	711.8	719.4	728.8	738.2	745.7	745.7
10°	725.0	719.4	715.6	717.5	726.9	736.3	745.7	757.0	766.5	775.9	775.9
12.5°	745.7	740.1	734.4	738.2	751.4	762.7	772.1	777.8	787.2	794.7	794.7
15°	766.5	757.0	755.2	762.7	775.9	783.4	787.2	787.2	790.9	798.5	798.5
17.5°	789.1	779.6	777.8	785.3	796.6	796.6	789.1	783.4	781.5	787.2	789.1
20°	811.7	802.2	802.2	807.9	806.0	792.8	779.6	770.2	762.7	768.3	770.2
22.5°	839.9	830.5	826.7	819.2	802.2	775.9	755.2	743.9	738.2	742.0	745.7
25°	868.1	860.6	851.2	824.8	785.3	743.9	717.5	708.1	710.0	717.5	721.3
27.5°	903.9	900.2	877.6	821.1	755.2	698.7	672.3	670.4	677.9	689.2	694.9
30°	947.2	941.6	902.0	809.8	713.7	645.9	627.1	630.9	642.2	651.6	657.2
32.5°	977.4	973.6	913.3	783.4	662.9	598.9	583.8	583.8	589.4	602.6	608.3
35°	986.8	1001.9	920.9	743.9	602.6	557.4	542.4	532.9	532.9	544.2	548.0
37.5°	1018.8	1052.7	924.6	691.1	553.7	519.8	500.9	484.0	478.3	476.4	476.4
40°	1092.2	1131.8	922.8	623.3	506.6	482.1	459.5	440.7	425.6	404.9	406.8
42.5°	1220.3	1250.4	917.1	551.8	465.1	448.2	425.6	403.0	378.5	355.9	354.0
45°	1467.0	1421.8	902.0	489.6	427.5	418.1	397.4	371.0	340.9	320.1	320.1
47.5°	1856.8	1732.5	892.6	431.2	393.6	391.7	372.9	344.6	314.5	299.4	297.5
50°	2391.6	2161.9	907.7	389.8	363.5	369.1	354.0	327.7	303.2	290.0	288.1
52.5°	3005.6	2623.3	924.6	363.5	340.9	352.2	344.6	320.1	295.7	284.4	282.5
55°	3480.1	2998.0	900.2	339.0	318.3	335.2	335.2	312.6	291.9	280.6	280.6
57.5°	3813.4	3148.7	815.4	316.4	299.4	320.1	325.8	308.8	290.0	286.2	286.2
60°	3956.6	3141.1	666.6	295.7	286.2	305.1	320.1	305.1	293.8	303.2	305.1
62.5°	3879.3	2977.3	517.9	280.6	276.8	301.3	325.8	320.1	307.0	314.5	318.3
65°	3531.0	2689.2	389.8	267.4	265.5	303.2	340.9	329.6	297.5	299.4	301.3
66°	3335.1	2495.2	357.8	263.6	261.8	305.1	348.4	325.8	290.0	293.8	291.9
67.5°	2917.0	2190.1	314.5	256.1	254.2	305.1	357.8	318.3	280.6	286.2	280.6
70°	2139.3	1549.9	269.3	246.7	242.9	299.4	355.9	303.2	259.9	256.1	246.7
72.5°	1241.0	937.8	239.2	235.4	226.0	263.6	333.3	278.7	237.3	226.0	216.6
75°	610.2	476.4	212.8	222.2	197.7	231.6	301.3	258.0	218.4	203.4	197.7
77.5°	280.6	241.0	192.1	203.4	175.1	199.6	274.9	235.4	194.0	171.4	165.7
80°	152.5	150.7	162.0	169.5	146.9	175.1	242.9	205.3	163.8	139.4	131.8
82.5°	94.2	96.0	118.6	129.9	114.9	152.5	214.7	171.4	124.3	97.9	99.8
85°	49.0	54.6	79.1	86.6	75.3	113.0	162.0	114.9	69.7	50.8	50.8
87.5°	16.9	22.6	39.5	47.1	41.4	67.8	101.7	54.6	15.1	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)