

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: P573347

Luminaire Tested: **ARCH-S-PA2-60-827-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)  
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-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6980 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

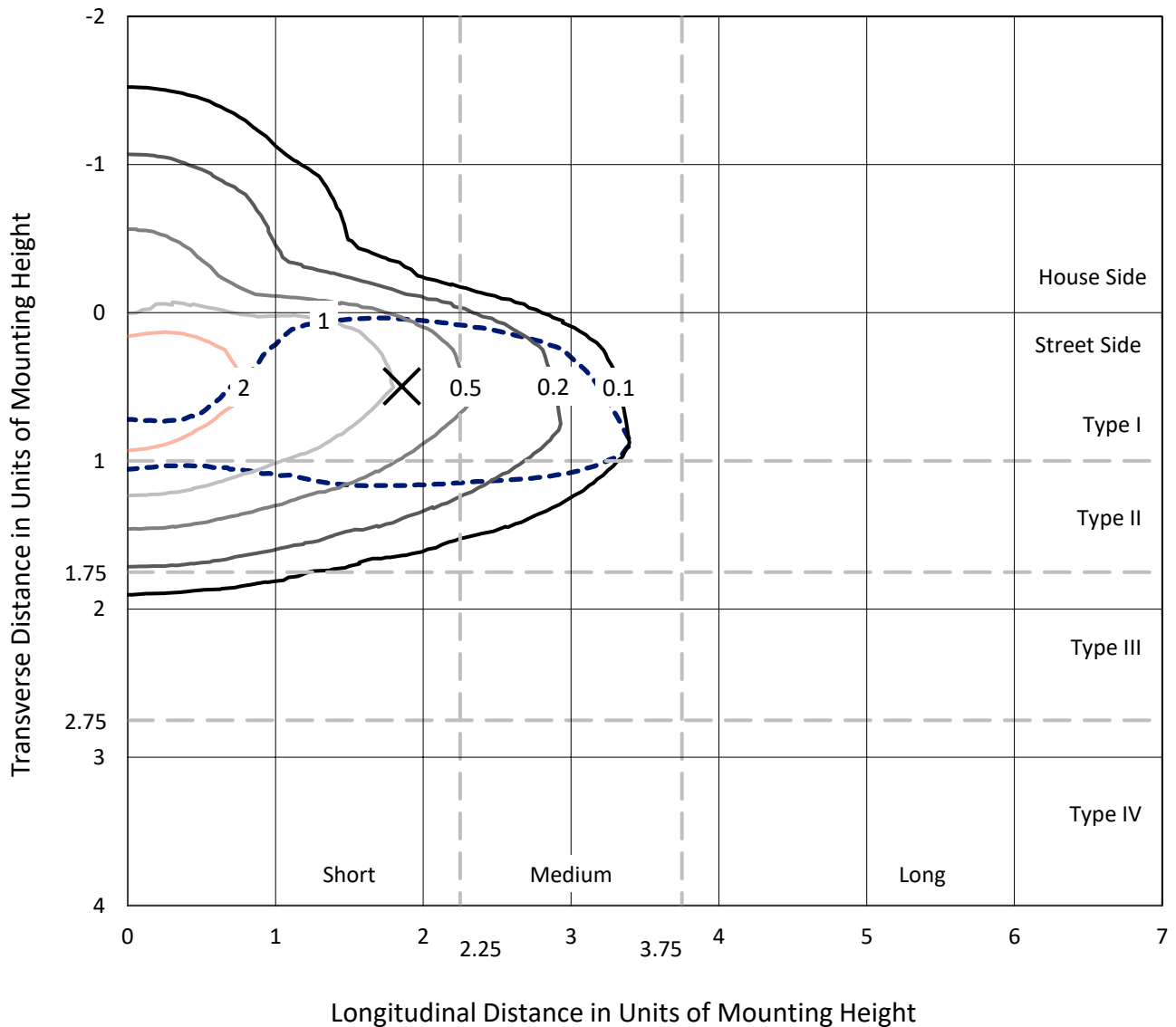
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

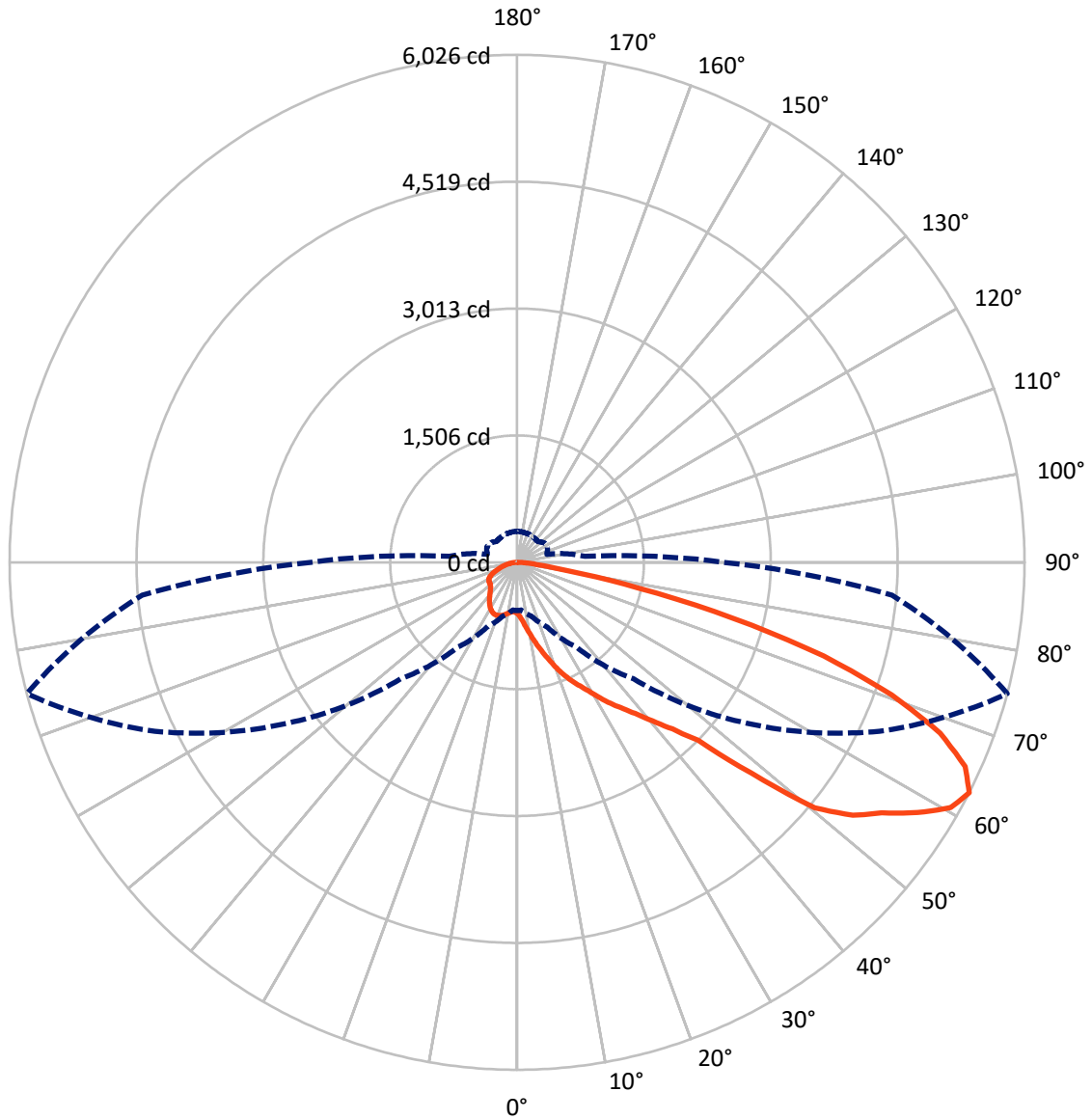
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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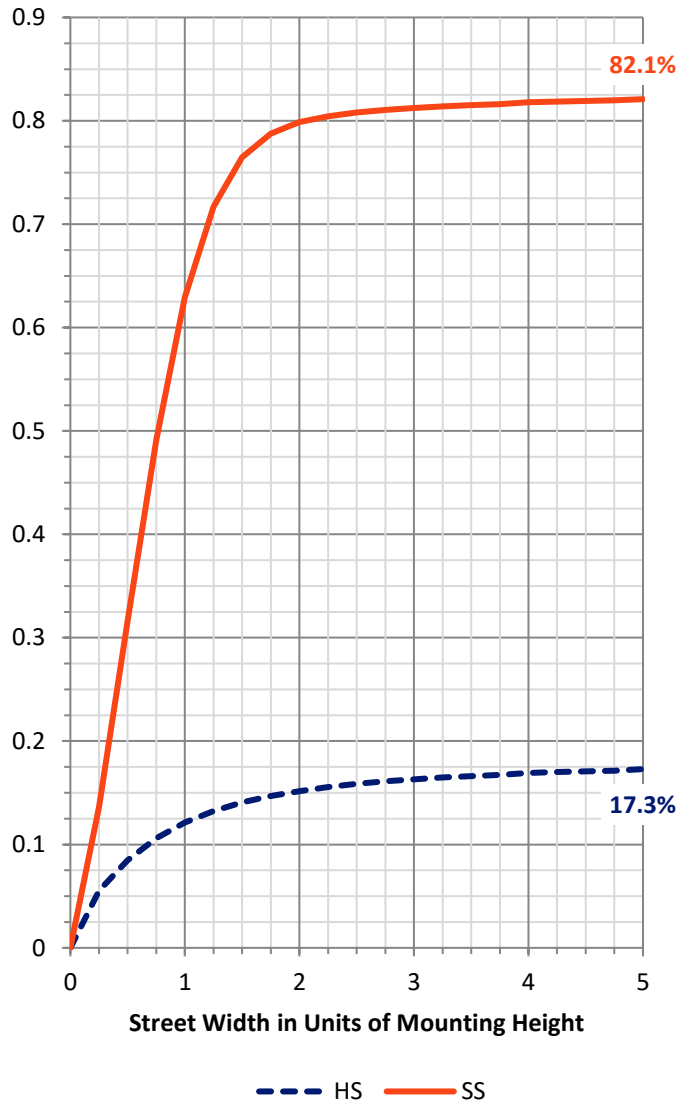
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1231.1	0.0	1231.1
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	5748.9	0.0	5748.9
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	6980.0	0.0	6980.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.1	1.0
10°-20°	288.8	4.1
20°-30°	571.4	8.2
30°-40°	952.5	13.6
40°-50°	1405.5	20.1
50°-60°	1689.5	24.2
60°-70°	1313.1	18.8
70°-80°	580.9	8.3
80°-90°	105.2	1.5
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°	6980.0	100.0
0°-180°	6980.0	100.0

**Coefficient of Utilization**



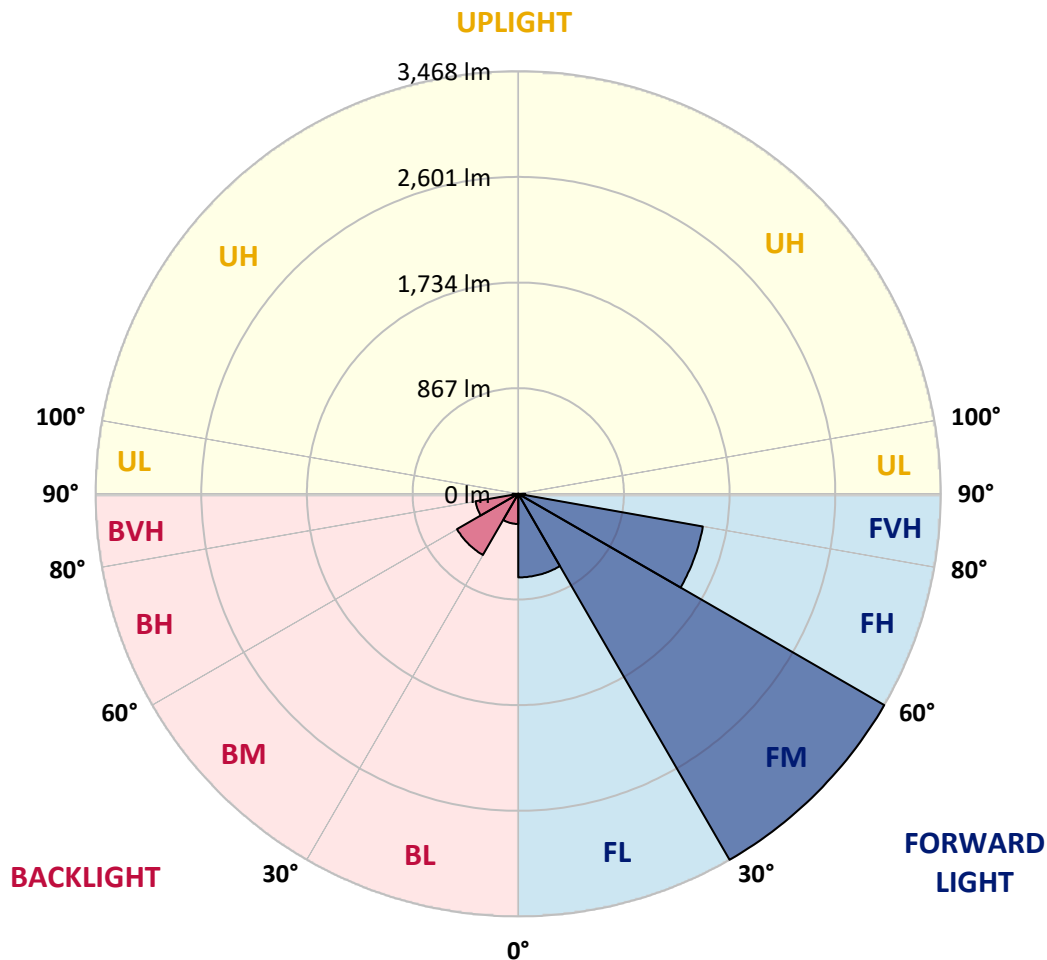
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.6	9.8			
FM (30°-60°)	3467.7	49.7			
FH (60°-80°)	1537.8	22.0			G1/1800
FVH (80°-90°)	57.8	0.8			G1/100
BL (0°-30°)	247.7	3.5	B1/500		
BM (30°-60°)	579.8	8.3	B1/1000		
BH (60°-80°)	356.2	5.1	B1/500		G1/500
BVH (80°-90°)	47.4	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4
2.5°	778.0	755.3	755.3	730.9	732.7	712.0	689.4	666.8	642.3	623.5	614.1
5°	1017.2	1000.2	994.6	966.3	921.1	870.3	815.6	759.1	700.7	655.5	632.9
7.5°	1241.3	1228.1	1220.6	1188.6	1126.4	1071.8	985.2	881.6	781.7	697.0	663.1
10°	1407.1	1397.7	1382.6	1367.5	1322.3	1275.2	1167.9	1020.9	874.0	747.8	697.0
12.5°	1527.7	1514.5	1514.5	1512.6	1482.4	1439.1	1339.3	1181.1	981.4	804.3	734.6
15°	1608.7	1606.8	1612.4	1623.7	1616.2	1587.9	1488.1	1328.0	1090.6	868.4	778.0
17.5°	1668.9	1661.4	1672.7	1702.8	1725.4	1714.1	1631.3	1469.3	1211.2	938.1	825.0
20°	1734.9	1719.8	1734.9	1772.5	1800.8	1817.7	1778.2	1604.9	1341.2	1013.4	870.3
22.5°	1861.1	1859.2	1851.6	1862.9	1881.8	1911.9	1889.3	1742.4	1467.4	1088.8	923.0
25°	2087.1	2066.4	2045.7	2021.2	2000.5	2009.9	1991.0	1870.5	1582.3	1171.6	968.2
27.5°	2339.5	2316.9	2279.2	2219.0	2162.4	2128.5	2089.0	1981.6	1693.4	1247.0	1011.5
30°	2571.2	2563.7	2507.2	2441.2	2343.3	2281.1	2205.8	2109.7	1827.2	1329.9	1056.7
32.5°	2787.8	2772.8	2716.2	2646.5	2531.6	2462.0	2358.3	2249.1	1979.7	1431.6	1103.8
35°	2974.3	2959.2	2893.3	2804.8	2704.9	2644.7	2526.0	2373.4	2119.1	1520.1	1143.4
37.5°	3115.6	3098.6	3036.5	2949.8	2861.3	2833.0	2731.3	2531.6	2277.4	1631.3	1192.4
40°	3194.7	3174.0	3132.5	3072.3	2998.8	2985.6	2942.3	2727.5	2477.0	1766.9	1263.9
42.5°	3204.1	3185.3	3162.7	3157.0	3151.4	3162.7	3183.4	2949.8	2704.9	1947.7	1369.4
45°	3121.2	3109.9	3111.8	3175.9	3264.4	3368.0	3492.3	3277.6	3012.0	2292.4	1606.8
47.5°	2944.2	2938.5	2980.0	3087.3	3285.1	3520.6	3872.8	3838.9	3739.1	2848.1	1911.9
50°	2657.9	2648.4	2737.0	2906.5	3189.0	3571.4	4129.0	4500.1	4583.0	3279.5	2111.6
52.5°	2247.2	2258.5	2396.0	2627.7	2968.7	3516.8	4234.5	4771.3	4989.8	3597.8	2264.2
55°	1827.2	1810.2	1934.5	2220.8	2642.8	3317.1	4255.2	4927.7	5253.5	3891.7	2413.0
57.5°	1331.8	1373.2	1505.0	1765.0	2222.7	2955.5	4134.6	5035.0	5607.7	4185.5	2550.5
60°	902.3	902.3	1019.1	1279.0	1717.9	2516.6	3812.5	4995.5	5916.6	4415.3	2580.6
62.5°	574.5	568.9	663.1	847.6	1230.0	1955.2	3330.3	4746.8	6025.8	4469.9	2454.4
65°	363.5	371.1	405.0	518.0	787.4	1388.3	2672.9	4251.4	5846.9	4343.7	2234.0
67.5°	292.0	293.9	310.8	357.9	484.1	891.0	1981.6	3567.7	5419.3	4025.4	1976.0
70°	258.1	261.8	265.6	282.5	331.5	563.2	1301.6	2872.6	4718.6	3471.6	1699.1
72.5°	235.5	239.2	243.0	246.8	273.1	367.3	768.5	2177.5	3806.9	2667.3	1296.0
75°	216.6	220.4	220.4	222.3	237.3	273.1	421.9	1501.3	2650.3	1659.5	808.1
77.5°	194.0	195.9	195.9	199.7	214.7	214.7	261.8	928.6	1471.1	751.6	408.8
80°	163.9	167.6	167.6	173.3	188.4	165.8	175.2	474.7	610.3	308.9	182.7
82.5°	120.6	128.1	131.9	141.3	150.7	126.2	126.2	239.2	258.1	137.5	98.0
85°	65.9	67.8	98.0	105.5	111.1	75.3	84.8	118.7	128.1	60.3	49.0
87.5°	18.8	20.7	47.1	58.4	52.7	32.0	35.8	45.2	45.2	17.0	13.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4
2.5°	606.5	591.5	578.3	568.9	559.4	553.8	551.9	548.1	548.1	550.0
5°	614.1	587.7	567.0	555.7	548.1	544.4	542.5	542.5	544.4	544.4
7.5°	632.9	593.4	574.5	565.1	557.6	553.8	553.8	551.9	553.8	553.8
10°	659.3	610.3	589.6	578.3	572.6	567.0	565.1	563.2	563.2	563.2
12.5°	687.5	629.1	606.5	593.4	583.9	576.4	572.6	568.9	567.0	567.0
15°	713.9	648.0	617.8	602.8	589.6	578.3	570.8	565.1	563.2	563.2
17.5°	742.2	661.2	625.4	604.7	587.7	572.6	563.2	555.7	551.9	551.9
20°	772.3	670.6	625.4	599.0	576.4	561.3	550.0	542.5	535.0	535.0
22.5°	796.8	674.4	617.8	585.8	563.2	544.4	533.1	523.7	518.0	518.0
25°	817.5	670.6	600.9	565.1	538.7	521.8	510.5	502.9	497.3	497.3
27.5°	830.7	655.5	580.2	542.5	518.0	501.1	493.5	486.0	482.2	482.2
30°	838.2	636.7	553.8	518.0	493.5	484.1	480.3	472.8	467.1	465.3
32.5°	842.0	608.4	527.4	493.5	476.6	472.8	472.8	463.4	455.8	454.0
35°	838.2	578.3	501.1	472.8	467.1	469.0	465.3	454.0	444.5	440.8
37.5°	832.6	542.5	472.8	457.7	463.4	467.1	455.8	440.8	425.7	421.9
40°	828.8	510.5	450.2	442.7	459.6	461.5	440.8	412.5	401.2	397.5
42.5°	847.6	478.5	429.5	431.4	450.2	452.1	414.4	401.2	393.7	391.8
45°	911.7	450.2	412.5	423.8	438.9	431.4	401.2	399.3	393.7	391.8
47.5°	960.7	429.5	405.0	418.2	429.5	403.1	399.3	397.5	391.8	389.9
50°	977.6	416.3	403.1	414.4	416.3	389.9	395.6	395.6	389.9	388.0
52.5°	979.5	408.8	406.9	412.5	395.6	384.3	391.8	391.8	386.2	384.3
55°	987.0	405.0	408.8	412.5	373.0	376.7	384.3	386.2	380.5	378.6
57.5°	972.0	399.3	412.5	414.4	363.5	369.2	376.7	376.7	376.7	376.7
60°	913.6	388.0	410.6	410.6	356.0	359.8	367.3	371.1	373.0	373.0
62.5°	806.2	365.4	399.3	399.3	348.5	352.2	361.7	361.7	367.3	367.3
65°	670.6	333.4	376.7	374.8	340.9	344.7	356.0	352.2	361.7	363.5
67.5°	559.4	293.9	342.8	346.6	333.4	342.8	350.4	337.2	356.0	356.0
70°	446.4	246.8	297.6	314.6	320.2	344.7	339.1	318.3	342.8	337.2
72.5°	346.6	209.1	244.9	275.0	305.2	342.8	314.6	292.0	307.0	297.6
75°	252.4	173.3	201.6	227.9	284.4	337.2	290.1	256.2	256.2	252.4
77.5°	177.1	141.3	162.0	180.8	263.7	322.1	259.9	220.4	211.0	209.1
80°	120.6	111.1	128.1	139.4	233.6	292.0	224.2	182.7	165.8	162.0
82.5°	79.1	79.1	86.6	94.2	180.8	243.0	175.2	135.6	175.2	167.6
85°	45.2	47.1	47.1	54.6	99.8	171.4	124.3	135.6	81.0	75.3
87.5°	15.1	15.1	15.1	15.1	20.7	69.7	52.7	49.0	18.8	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)