

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: P573050

Luminaire Tested: **ARCH-S-PA2-30-727-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573050  
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-PA2-30-727-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4403 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

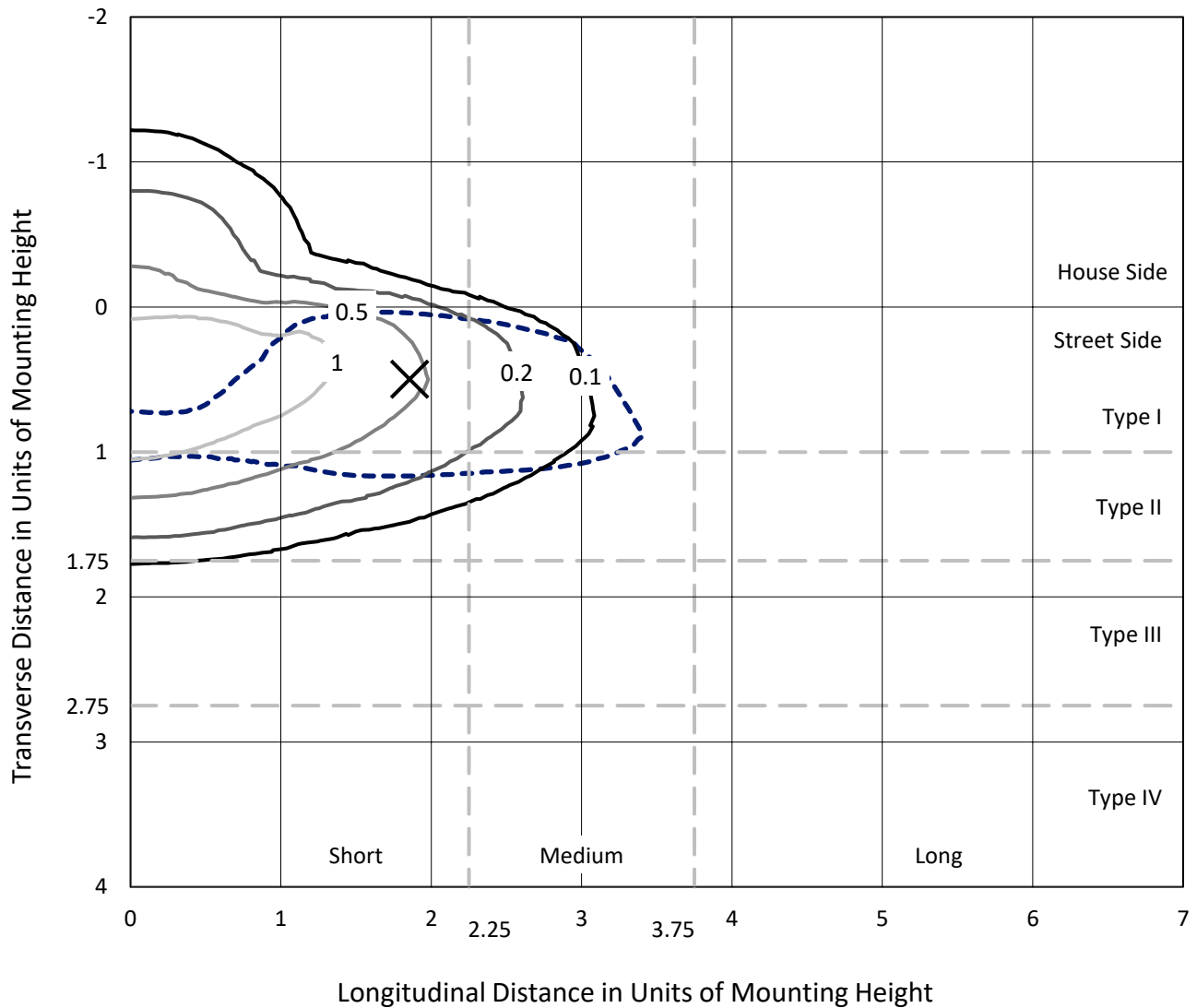
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

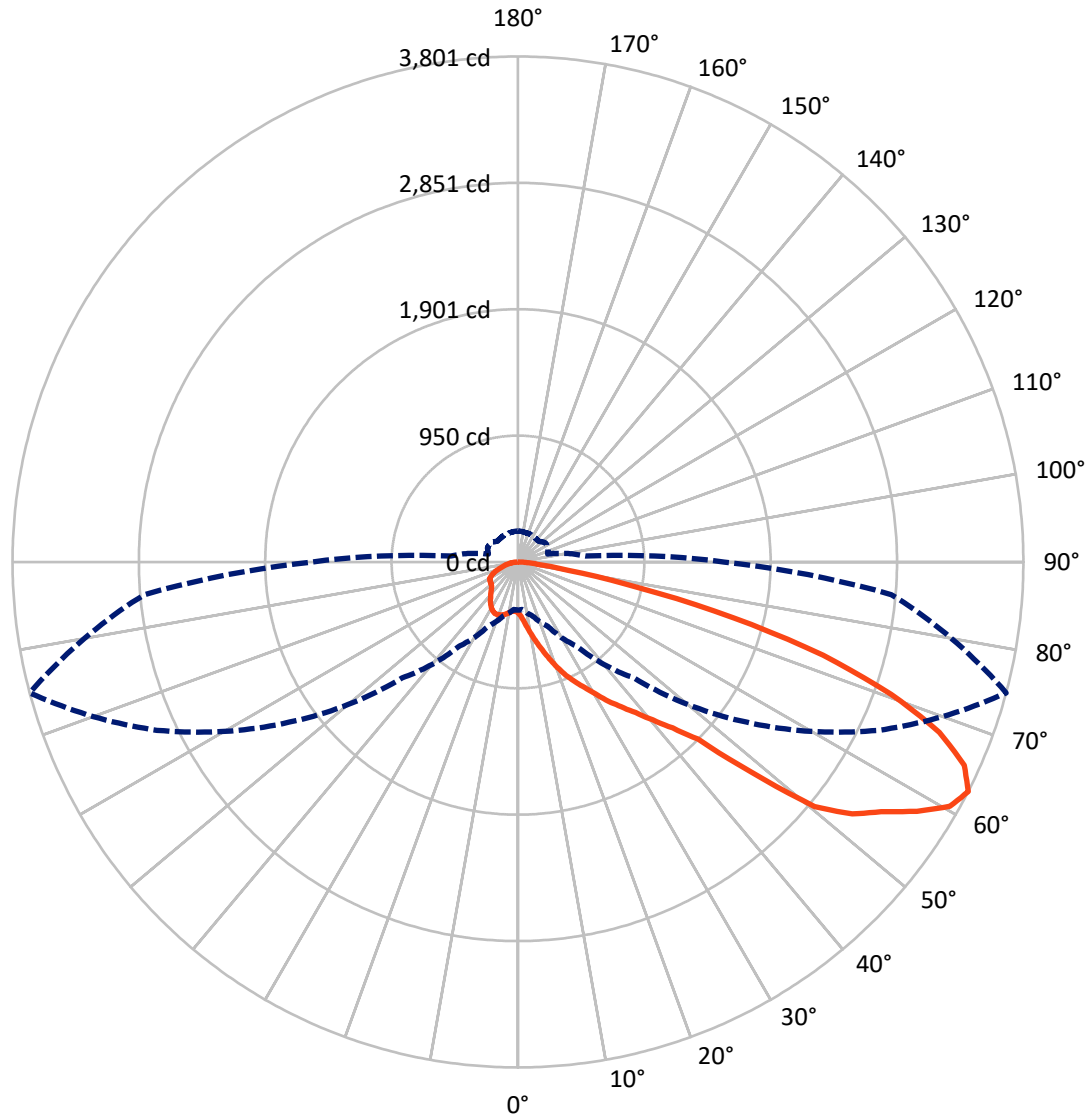
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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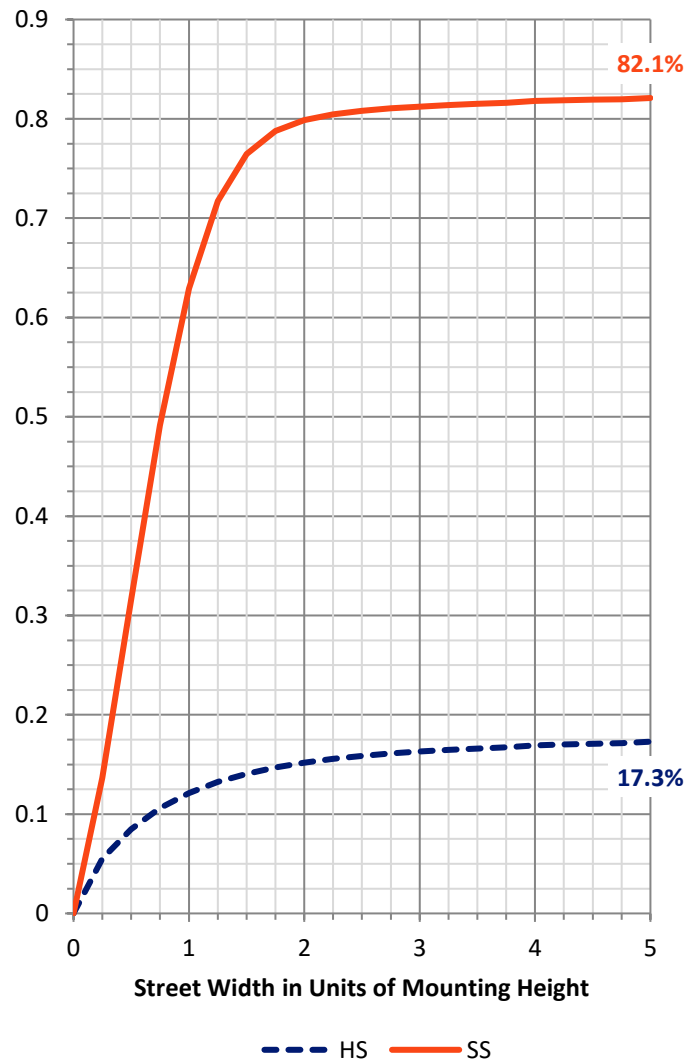
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	776.6	0.0	776.6
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	3626.4	0.0	3626.4
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	4403.0	0.0	4403.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	1.0
10°-20°	182.2	4.1
20°-30°	360.5	8.2
30°-40°	600.8	13.6
40°-50°	886.6	20.1
50°-60°	1065.8	24.2
60°-70°	828.3	18.8
70°-80°	366.4	8.3
80°-90°	66.3	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°	4403.0	100.0
0°-180°	4403.0	100.0

**Coefficient of Utilization**

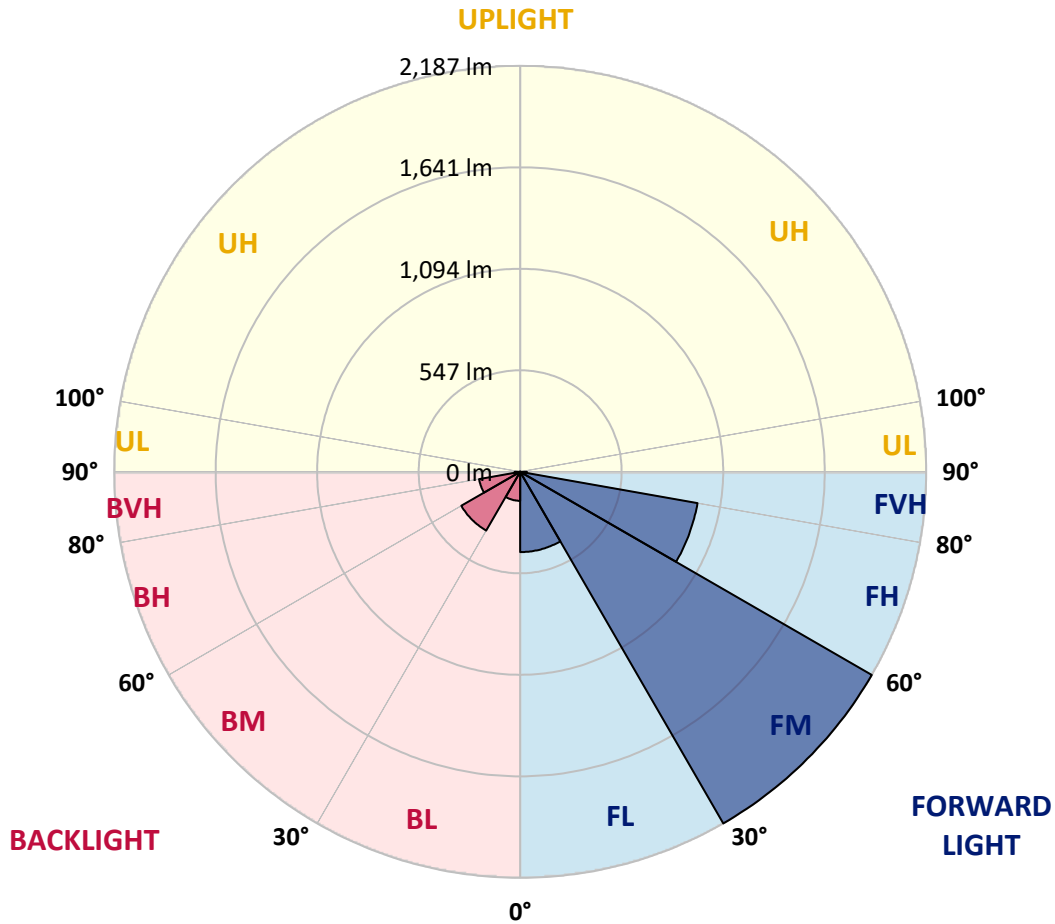


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.5	9.8			
FM (30°-60°)	2187.4	49.7			
FH (60°-80°)	970.1	22.0			G1/1800
FVH (80°-90°)	36.5	0.8			G1/100
BL (0°-30°)	156.3	3.5	B1/500		
BM (30°-60°)	365.7	8.3	B1/1000		
BH (60°-80°)	224.7	5.1	B1/500		G1/500
BVH (80°-90°)	29.9	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8
2.5°	490.7	476.5	476.5	461.0	462.2	449.1	434.9	420.6	405.2	393.3	387.4
5°	641.6	630.9	627.4	609.6	581.0	549.0	514.5	478.9	442.0	413.5	399.2
7.5°	783.0	774.7	770.0	749.8	710.6	676.1	621.4	556.1	493.1	439.6	418.3
10°	887.6	881.7	872.2	862.6	834.1	804.4	736.7	644.0	551.3	471.7	439.6
12.5°	963.6	955.3	955.3	954.1	935.1	907.8	844.8	745.0	619.1	507.4	463.4
15°	1014.7	1013.6	1017.1	1024.2	1019.5	1001.7	938.7	837.7	688.0	547.8	490.7
17.5°	1052.8	1048.0	1055.1	1074.2	1088.4	1081.3	1029.0	926.8	764.0	591.7	520.4
20°	1094.4	1084.8	1094.4	1118.1	1135.9	1146.6	1121.7	1012.4	846.0	639.3	549.0
22.5°	1174.0	1172.8	1168.0	1175.1	1187.0	1206.0	1191.8	1099.1	925.6	686.8	582.2
25°	1316.5	1303.5	1290.4	1275.0	1261.9	1267.8	1255.9	1179.9	998.1	739.1	610.7
27.5°	1475.8	1461.5	1437.7	1399.7	1364.1	1342.7	1317.7	1250.0	1068.2	786.6	638.1
30°	1621.9	1617.2	1581.5	1539.9	1478.1	1438.9	1391.4	1330.8	1152.6	838.9	666.6
32.5°	1758.6	1749.1	1713.4	1669.4	1597.0	1553.0	1487.7	1418.7	1248.8	903.0	696.3
35°	1876.2	1866.7	1825.1	1769.3	1706.3	1668.3	1593.4	1497.2	1336.7	958.9	721.2
37.5°	1965.3	1954.6	1915.4	1860.8	1804.9	1787.1	1722.9	1597.0	1436.6	1029.0	752.1
40°	2015.2	2002.2	1976.0	1938.0	1891.6	1883.3	1856.0	1720.5	1562.5	1114.6	797.3
42.5°	2021.2	2009.3	1995.0	1991.5	1987.9	1995.0	2008.1	1860.8	1706.3	1228.6	863.8
45°	1968.9	1961.8	1962.9	2003.3	2059.2	2124.5	2203.0	2067.5	1900.0	1446.1	1013.6
47.5°	1857.2	1853.6	1879.8	1947.5	2072.3	2220.8	2443.0	2421.6	2358.6	1796.6	1206.0
50°	1676.6	1670.6	1726.5	1833.4	2011.7	2252.9	2604.6	2838.7	2890.9	2068.7	1332.0
52.5°	1417.5	1424.7	1511.4	1657.6	1872.6	2218.4	2671.1	3009.8	3147.6	2269.5	1428.2
55°	1152.6	1141.9	1220.3	1400.9	1667.1	2092.5	2684.2	3108.4	3313.9	2454.9	1522.1
57.5°	840.1	866.2	949.4	1113.4	1402.1	1864.3	2608.1	3176.1	3537.3	2640.2	1608.9
60°	569.2	569.2	642.8	806.8	1083.7	1587.5	2405.0	3151.2	3732.2	2785.2	1627.9
62.5°	362.4	358.8	418.3	534.7	775.9	1233.4	2100.8	2994.3	3801.1	2819.6	1548.3
65°	229.3	234.1	255.5	326.8	496.7	875.7	1686.1	2681.8	3688.2	2740.0	1409.2
67.5°	184.2	185.4	196.1	225.8	305.4	562.0	1250.0	2250.5	3418.5	2539.2	1246.4
70°	162.8	165.2	167.5	178.2	209.1	355.3	821.1	1812.0	2976.5	2189.9	1071.8
72.5°	148.5	150.9	153.3	155.7	172.3	231.7	484.8	1373.6	2401.4	1682.5	817.5
75°	136.6	139.0	139.0	140.2	149.7	172.3	266.2	947.0	1671.8	1046.8	509.7
77.5°	122.4	123.6	123.6	126.0	135.5	135.5	165.2	585.8	928.0	474.1	257.8
80°	103.4	105.8	105.8	109.3	118.8	104.6	110.5	299.4	385.0	194.9	115.3
82.5°	76.0	80.8	83.2	89.1	95.1	79.6	79.6	150.9	162.8	86.7	61.8
85°	41.6	42.8	61.8	66.5	70.1	47.5	53.5	74.9	80.8	38.0	30.9
87.5°	11.9	13.1	29.7	36.8	33.3	20.2	22.6	28.5	28.5	10.7	8.3
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°	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8	383.8
2.5°	382.6	373.1	364.8	358.8	352.9	349.3	348.1	345.8	345.8	347.0
5°	387.4	370.7	357.7	350.5	345.8	343.4	342.2	342.2	343.4	343.4
7.5°	399.2	374.3	362.4	356.5	351.7	349.3	349.3	348.1	349.3	349.3
10°	415.9	385.0	371.9	364.8	361.2	357.7	356.5	355.3	355.3	355.3
12.5°	433.7	396.9	382.6	374.3	368.3	363.6	361.2	358.8	357.7	357.7
15°	450.3	408.7	389.7	380.2	371.9	364.8	360.0	356.5	355.3	355.3
17.5°	468.2	417.1	394.5	381.4	370.7	361.2	355.3	350.5	348.1	348.1
20°	487.2	423.0	394.5	377.9	363.6	354.1	347.0	342.2	337.5	337.5
22.5°	502.6	425.4	389.7	369.5	355.3	343.4	336.3	330.3	326.8	326.8
25°	515.7	423.0	379.0	356.5	339.8	329.1	322.0	317.3	313.7	313.7
27.5°	524.0	413.5	366.0	342.2	326.8	316.1	311.3	306.6	304.2	304.2
30°	528.8	401.6	349.3	326.8	311.3	305.4	303.0	298.2	294.7	293.5
32.5°	531.1	383.8	332.7	311.3	300.6	298.2	298.2	292.3	287.5	286.4
35°	528.8	364.8	316.1	298.2	294.7	295.9	293.5	286.4	280.4	278.0
37.5°	525.2	342.2	298.2	288.7	292.3	294.7	287.5	278.0	268.5	266.2
40°	522.8	322.0	284.0	279.2	289.9	291.1	278.0	260.2	253.1	250.7
42.5°	534.7	301.8	270.9	272.1	284.0	285.2	261.4	253.1	248.3	247.1
45°	575.1	284.0	260.2	267.3	276.9	272.1	253.1	251.9	248.3	247.1
47.5°	606.0	270.9	255.5	263.8	270.9	254.3	251.9	250.7	247.1	246.0
50°	616.7	262.6	254.3	261.4	262.6	246.0	249.5	249.5	246.0	244.8
52.5°	617.9	257.8	256.7	260.2	249.5	242.4	247.1	247.1	243.6	242.4
55°	622.6	255.5	257.8	260.2	235.3	237.6	242.4	243.6	240.0	238.8
57.5°	613.1	251.9	260.2	261.4	229.3	232.9	237.6	237.6	237.6	237.6
60°	576.3	244.8	259.0	259.0	224.6	227.0	231.7	234.1	235.3	235.3
62.5°	508.6	230.5	251.9	251.9	219.8	222.2	228.1	228.1	231.7	231.7
65°	423.0	210.3	237.6	236.5	215.1	217.4	224.6	222.2	228.1	229.3
67.5°	352.9	185.4	216.3	218.6	210.3	216.3	221.0	212.7	224.6	224.6
70°	281.6	155.7	187.7	198.4	202.0	217.4	213.9	200.8	216.3	212.7
72.5°	218.6	131.9	154.5	173.5	192.5	216.3	198.4	184.2	193.7	187.7
75°	159.2	109.3	127.1	143.8	179.4	212.7	183.0	161.6	161.6	159.2
77.5°	111.7	89.1	102.2	114.1	166.4	203.2	164.0	139.0	133.1	131.9
80°	76.0	70.1	80.8	87.9	147.3	184.2	141.4	115.3	104.6	102.2
82.5°	49.9	49.9	54.7	59.4	114.1	153.3	110.5	85.6	110.5	105.8
85°	28.5	29.7	29.7	34.5	63.0	108.1	78.4	85.6	51.1	47.5
87.5°	9.5	9.5	9.5	9.5	13.1	44.0	33.3	30.9	11.9	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)