

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: P573059

Luminaire Tested: **ARCH-S-PA2-30-730-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573059
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-PA2-30-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 4795 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

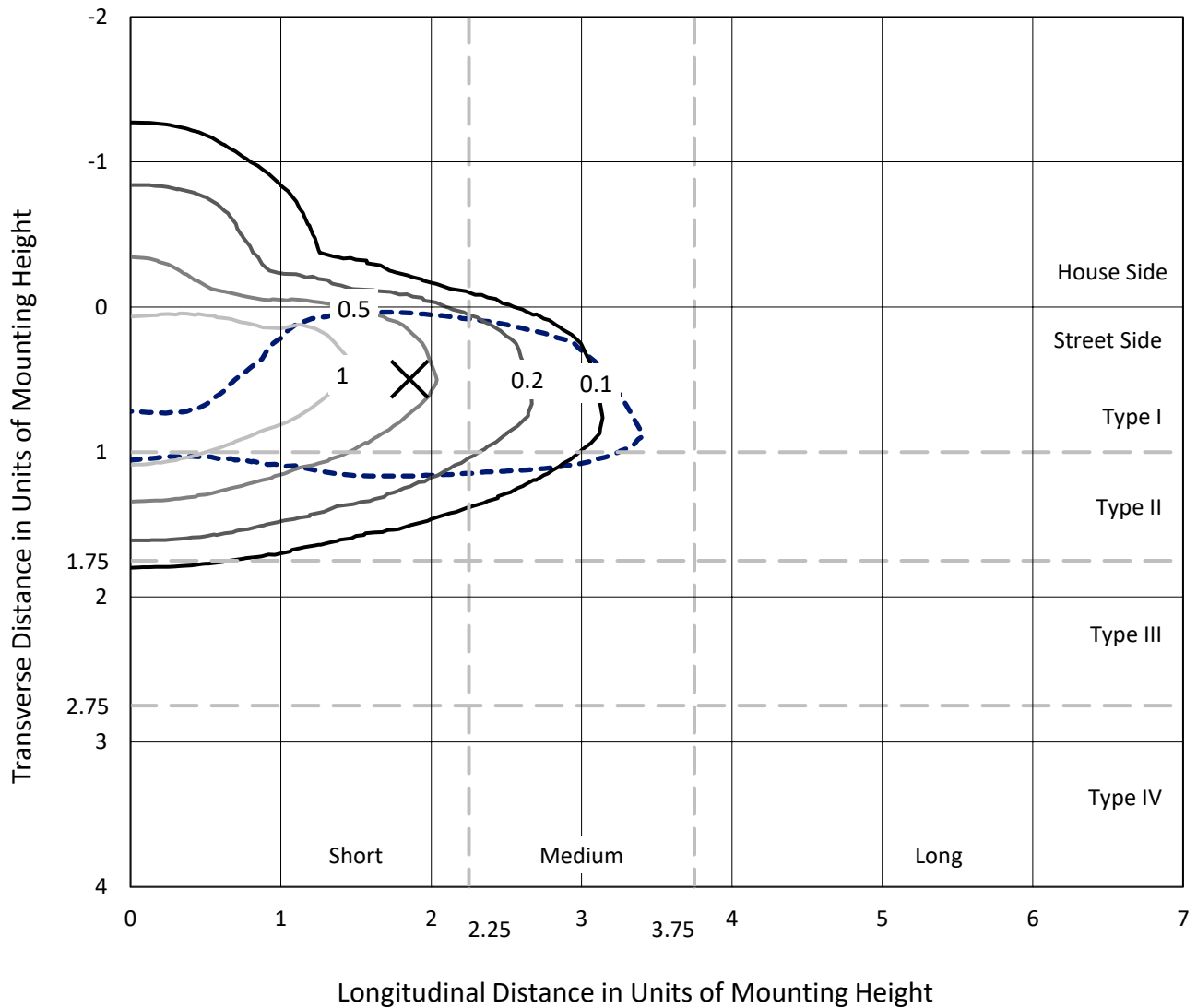
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

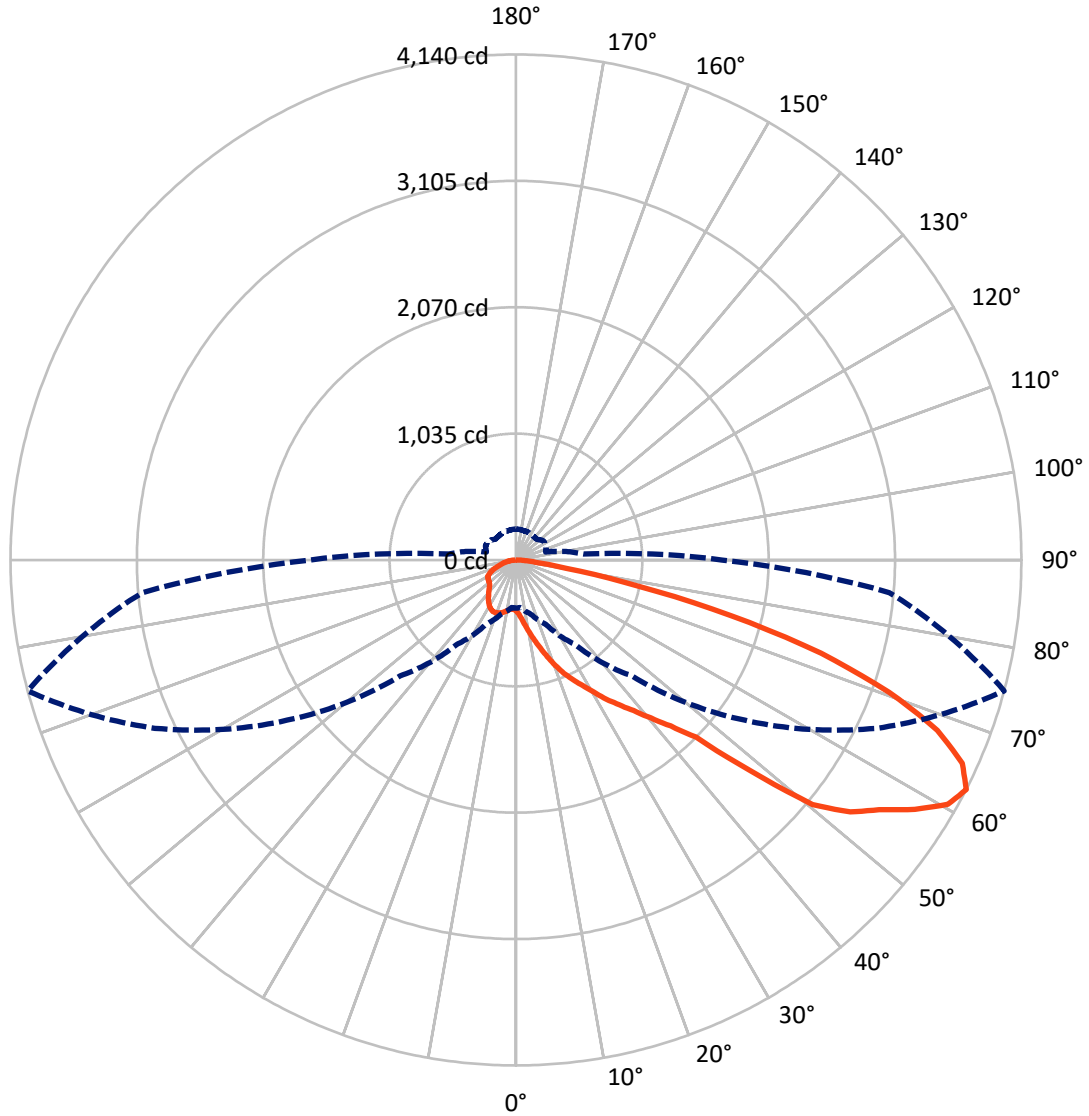
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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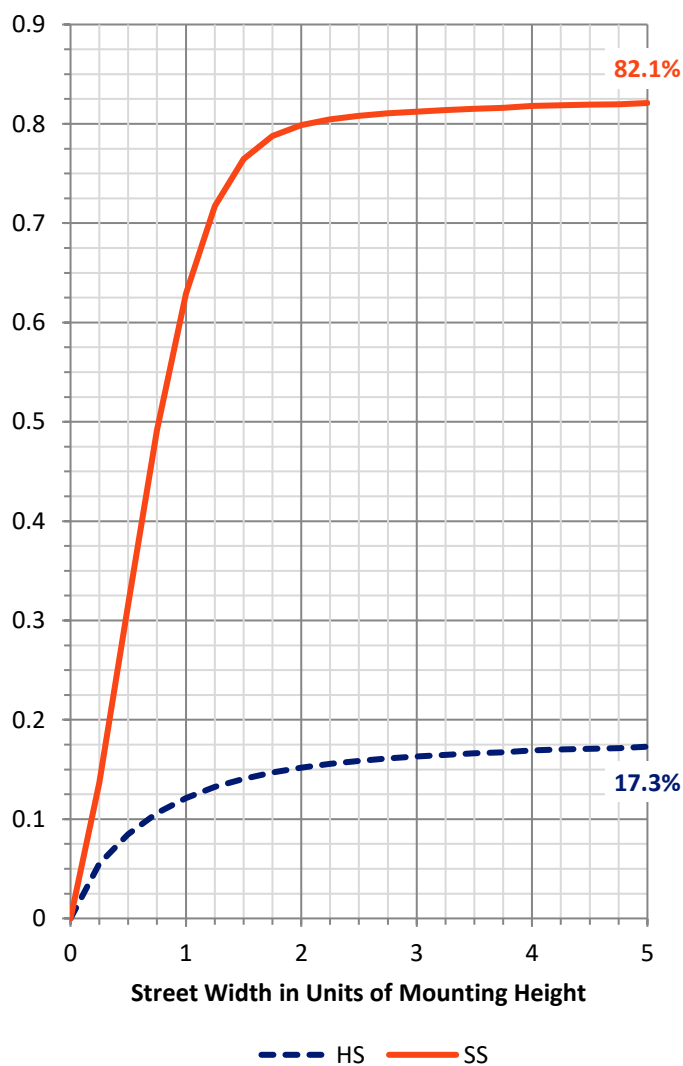
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	845.7	0.0	845.7
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	3949.3	0.0	3949.3
	% Fixture	82.4	0.0	82.4
Total	Lumens	4795.0	0.0	4795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.0
10°-20°	198.4	4.1
20°-30°	392.5	8.2
30°-40°	654.3	13.6
40°-50°	965.5	20.1
50°-60°	1160.6	24.2
60°-70°	902.1	18.8
70°-80°	399.1	8.3
80°-90°	72.2	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°	4795.0	100.0
0°-180°	4795.0	100.0

Coefficient of Utilization



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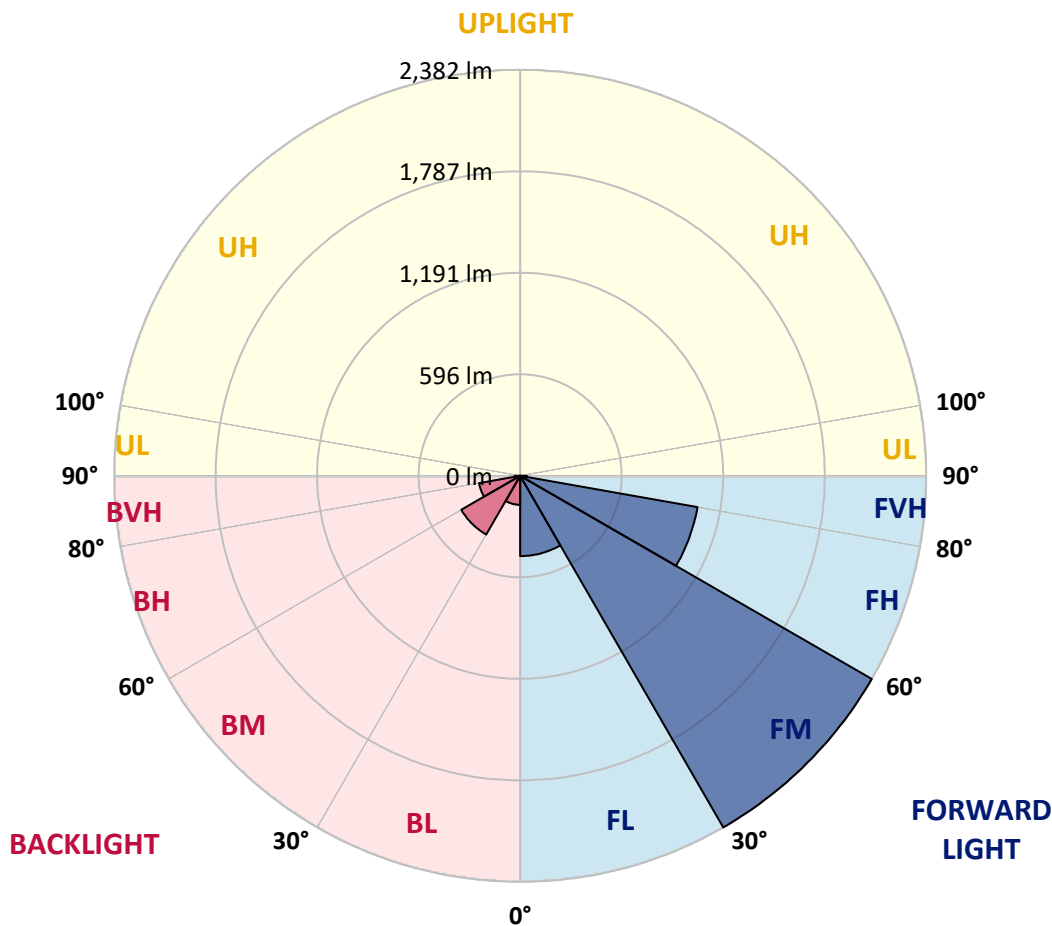
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.0	9.8			
FM (30°-60°)	2382.2	49.7			
FH (60°-80°)	1056.4	22.0			G1/1800
FVH (80°-90°)	39.7	0.8			G1/100
BL (0°-30°)	170.2	3.5	B1/500		
BM (30°-60°)	398.3	8.3	B1/1000		
BH (60°-80°)	244.7	5.1	B1/500		G1/500
BVH (80°-90°)	32.5	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°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	534.4	518.9	518.9	502.1	503.4	489.1	473.6	458.1	441.3	428.3	421.8
5°	698.8	687.1	683.2	663.8	632.8	597.8	560.3	521.5	481.4	450.3	434.8
7.5°	852.8	843.7	838.5	816.5	773.8	736.3	676.8	605.6	537.0	478.8	455.5
10°	966.6	960.2	949.8	939.4	908.4	876.0	802.3	701.4	600.4	513.7	478.8
12.5°	1049.4	1040.4	1040.4	1039.1	1018.4	988.6	920.0	811.3	674.2	552.5	504.7
15°	1105.1	1103.8	1107.7	1115.4	1110.3	1090.8	1022.3	912.3	749.2	596.5	534.4
17.5°	1146.5	1141.3	1149.1	1169.8	1185.3	1177.5	1120.6	1009.3	832.0	644.4	566.8
20°	1191.8	1181.4	1191.8	1217.7	1237.1	1248.7	1221.5	1102.5	921.3	696.2	597.8
22.5°	1278.5	1277.2	1272.0	1279.8	1292.7	1313.4	1297.9	1197.0	1008.0	747.9	634.1
25°	1433.8	1419.5	1405.3	1388.5	1374.2	1380.7	1367.8	1284.9	1087.0	804.9	665.1
27.5°	1607.2	1591.6	1565.7	1524.3	1485.5	1462.2	1435.1	1361.3	1163.3	856.6	694.9
30°	1766.3	1761.1	1722.3	1677.0	1609.7	1567.0	1515.3	1449.3	1255.2	913.6	725.9
32.5°	1915.1	1904.8	1866.0	1818.1	1739.1	1691.3	1620.1	1545.0	1360.0	983.4	758.3
35°	2043.2	2032.9	1987.6	1926.8	1858.2	1816.8	1735.3	1630.4	1455.8	1044.3	785.5
37.5°	2140.3	2128.6	2085.9	2026.4	1965.6	1946.2	1876.3	1739.1	1564.5	1120.6	819.1
40°	2194.6	2180.4	2151.9	2110.5	2060.1	2051.0	2021.2	1873.7	1701.6	1213.8	868.3
42.5°	2201.1	2188.2	2172.6	2168.8	2164.9	2172.6	2186.9	2026.4	1858.2	1338.0	940.7
45°	2144.2	2136.4	2137.7	2181.7	2242.5	2313.7	2399.1	2251.6	2069.1	1574.8	1103.8
47.5°	2022.5	2018.7	2047.1	2120.9	2256.7	2418.5	2660.5	2637.2	2568.6	1956.5	1313.4
50°	1825.8	1819.4	1880.2	1996.7	2190.8	2453.4	2836.5	3091.4	3148.3	2252.9	1450.6
52.5°	1543.8	1551.5	1646.0	1805.1	2039.4	2415.9	2908.9	3277.7	3427.8	2471.6	1555.4
55°	1255.2	1243.5	1328.9	1525.6	1815.5	2278.7	2923.2	3385.1	3609.0	2673.4	1657.6
57.5°	914.9	943.3	1033.9	1212.5	1526.9	2030.3	2840.3	3458.9	3852.3	2875.3	1752.1
60°	619.8	619.8	700.1	878.6	1180.1	1728.8	2619.1	3431.7	4064.5	3033.2	1772.8
62.5°	394.7	390.8	455.5	582.3	845.0	1343.2	2287.8	3260.9	4139.5	3070.7	1686.1
65°	249.7	254.9	278.2	355.9	540.9	953.7	1836.2	2920.6	4016.6	2984.0	1534.7
67.5°	200.6	201.9	213.5	245.9	332.6	612.1	1361.3	2450.9	3722.9	2765.3	1357.4
70°	177.3	179.9	182.5	194.1	227.7	386.9	894.2	1973.4	3241.5	2384.9	1167.2
72.5°	161.8	164.3	166.9	169.5	187.6	252.3	528.0	1495.9	2615.2	1832.3	890.3
75°	148.8	151.4	151.4	152.7	163.0	187.6	289.9	1031.3	1820.7	1140.0	555.1
77.5°	133.3	134.6	134.6	137.2	147.5	147.5	179.9	637.9	1010.6	516.3	280.8
80°	112.6	115.2	115.2	119.0	129.4	113.9	120.3	326.1	419.3	212.2	125.5
82.5°	82.8	88.0	90.6	97.1	103.5	86.7	86.7	164.3	177.3	94.5	67.3
85°	45.3	46.6	67.3	72.5	76.3	51.8	58.2	81.5	88.0	41.4	33.6
87.5°	12.9	14.2	32.4	40.1	36.2	22.0	24.6	31.1	31.1	11.6	9.1
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°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	416.7	406.3	397.3	390.8	384.3	380.4	379.1	376.6	376.6	377.9
5°	421.8	403.7	389.5	381.7	376.6	374.0	372.7	372.7	374.0	374.0
7.5°	434.8	407.6	394.7	388.2	383.0	380.4	380.4	379.1	380.4	380.4
10°	452.9	419.3	405.0	397.3	393.4	389.5	388.2	386.9	386.9	386.9
12.5°	472.3	432.2	416.7	407.6	401.1	396.0	393.4	390.8	389.5	389.5
15°	490.4	445.1	424.4	414.1	405.0	397.3	392.1	388.2	386.9	386.9
17.5°	509.8	454.2	429.6	415.4	403.7	393.4	386.9	381.7	379.1	379.1
20°	530.5	460.7	429.6	411.5	396.0	385.6	377.9	372.7	367.5	367.5
22.5°	547.4	463.3	424.4	402.4	386.9	374.0	366.2	359.7	355.9	355.9
25°	561.6	460.7	412.8	388.2	370.1	358.4	350.7	345.5	341.6	341.6
27.5°	570.7	450.3	398.6	372.7	355.9	344.2	339.0	333.9	331.3	331.3
30°	575.8	437.4	380.4	355.9	339.0	332.6	330.0	324.8	320.9	319.6
32.5°	578.4	418.0	362.3	339.0	327.4	324.8	324.8	318.3	313.1	311.9
35°	575.8	397.3	344.2	324.8	320.9	322.2	319.6	311.9	305.4	302.8
37.5°	572.0	372.7	324.8	314.4	318.3	320.9	313.1	302.8	292.4	289.9
40°	569.4	350.7	309.3	304.1	315.7	317.0	302.8	283.4	275.6	273.0
42.5°	582.3	328.7	295.0	296.3	309.3	310.6	284.7	275.6	270.4	269.2
45°	626.3	309.3	283.4	291.2	301.5	296.3	275.6	274.3	270.4	269.2
47.5°	659.9	295.0	278.2	287.3	295.0	276.9	274.3	273.0	269.2	267.9
50°	671.6	286.0	276.9	284.7	286.0	267.9	271.7	271.7	267.9	266.6
52.5°	672.9	280.8	279.5	283.4	271.7	264.0	269.2	269.2	265.3	264.0
55°	678.1	278.2	280.8	283.4	256.2	258.8	264.0	265.3	261.4	260.1
57.5°	667.7	274.3	283.4	284.7	249.7	253.6	258.8	258.8	258.8	258.8
60°	627.6	266.6	282.1	282.1	244.6	247.2	252.3	254.9	256.2	256.2
62.5°	553.8	251.0	274.3	274.3	239.4	242.0	248.4	248.4	252.3	252.3
65°	460.7	229.0	258.8	257.5	234.2	236.8	244.6	242.0	248.4	249.7
67.5°	384.3	201.9	235.5	238.1	229.0	235.5	240.7	231.6	244.6	244.6
70°	306.7	169.5	204.5	216.1	220.0	236.8	232.9	218.7	235.5	231.6
72.5°	238.1	143.6	168.2	188.9	209.6	235.5	216.1	200.6	210.9	204.5
75°	173.4	119.0	138.5	156.6	195.4	231.6	199.3	176.0	176.0	173.4
77.5°	121.6	97.1	111.3	124.2	181.2	221.3	178.6	151.4	144.9	143.6
80°	82.8	76.3	88.0	95.8	160.5	200.6	154.0	125.5	113.9	111.3
82.5°	54.3	54.3	59.5	64.7	124.2	166.9	120.3	93.2	120.3	115.2
85°	31.1	32.4	32.4	37.5	68.6	117.8	85.4	93.2	55.6	51.8
87.5°	10.4	10.4	10.4	10.4	14.2	47.9	36.2	33.6	12.9	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)