

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: P573144

Luminaire Tested: **ARCH-S-PA2-40-730-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-40-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6102 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

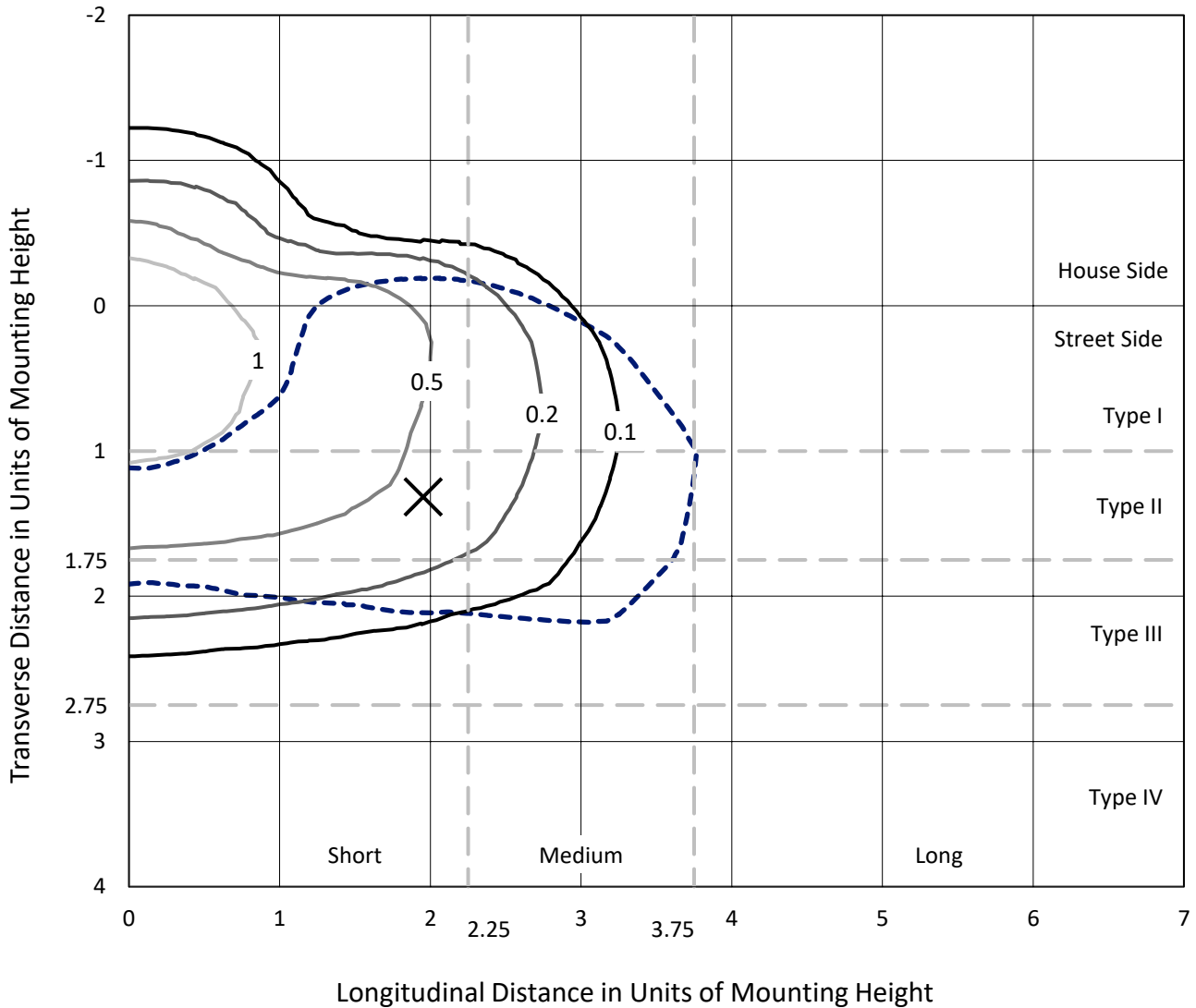
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573144
 CATALOG NUMBER: ARCH-S-PA2-40-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

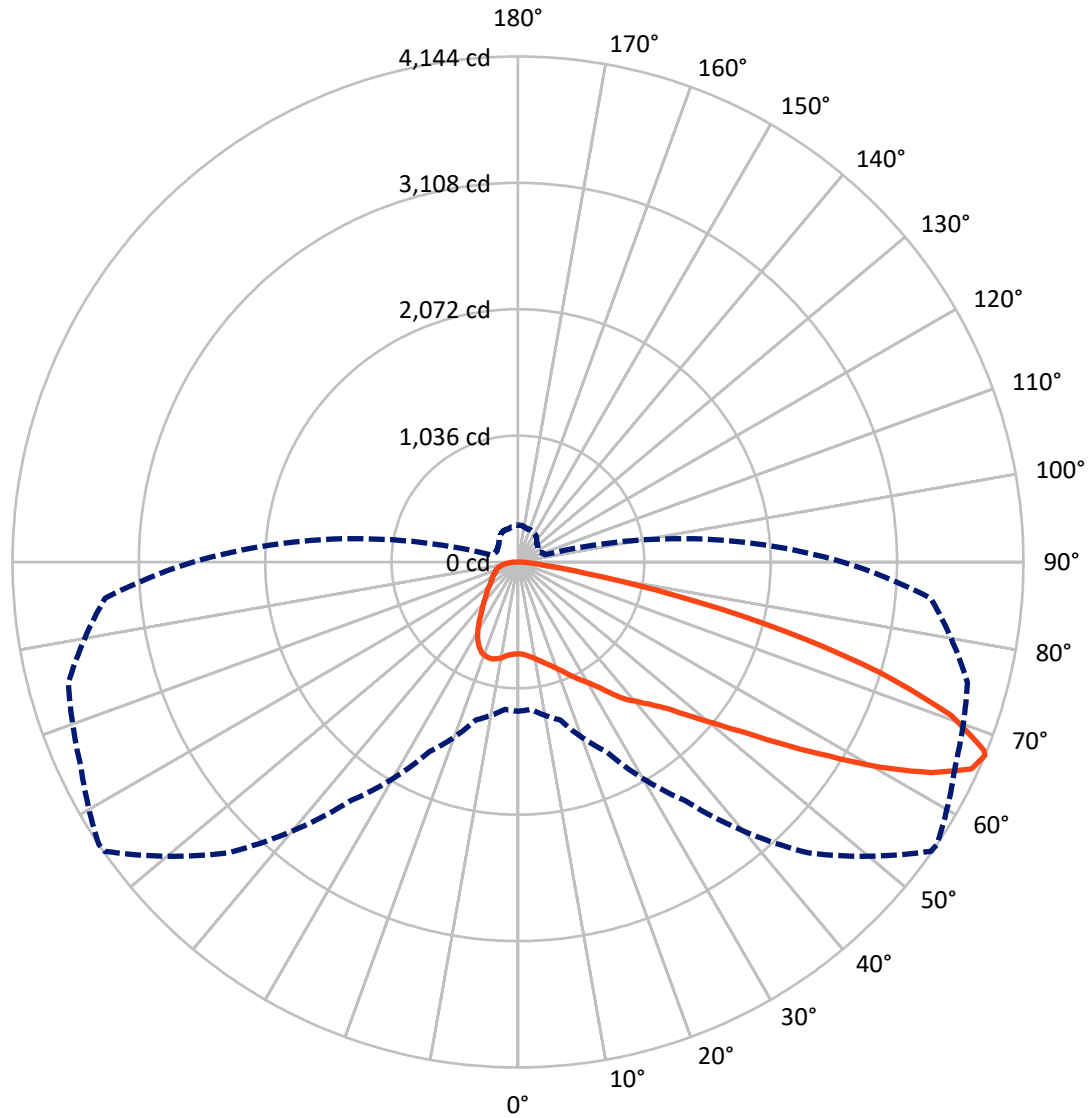
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

REPORT NUMBER: P573144
CATALOG NUMBER: ARCH-S-PA2-40-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P573144

CATALOG NUMBER: ARCH-S-PA2-40-730-U-T3

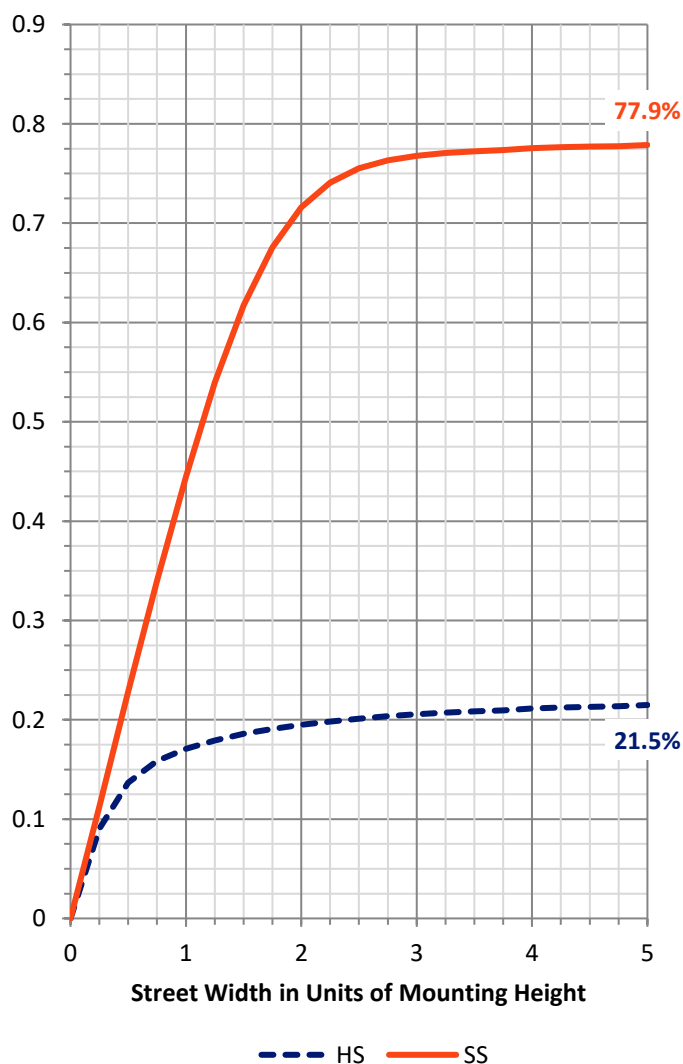
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1335.0	0.0	1335.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4767.0	0.0	4767.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	6102.0	0.0	6102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.2
10°-20°	237.7	3.9
20°-30°	413.7	6.8
30°-40°	606.5	9.9
40°-50°	887.5	14.5
50°-60°	1387.0	22.7
60°-70°	1648.5	27.0
70°-80°	750.8	12.3
80°-90°	96.3	1.6
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°	6102.0	100.0
0°-180°	6102.0	100.0

Coefficient of Utilization



REPORT NUMBER: P573144

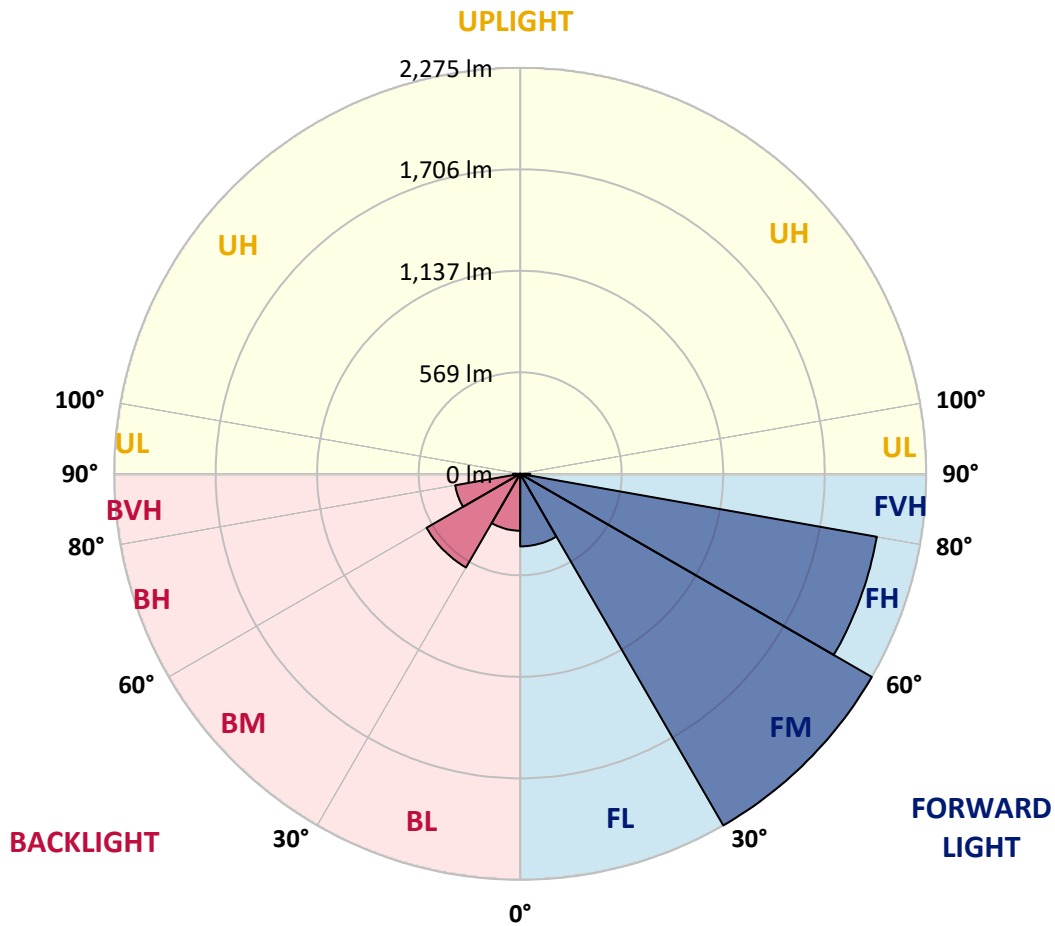
CATALOG NUMBER: ARCH-S-PA2-40-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.4	6.7			
FM (30°-60°)	2275.0	37.3			
FH (60°-80°)	2029.4	33.3			G2/5000
FVH (80°-90°)	56.1	0.9			G1/100
BL (0°-30°)	319.0	5.2	B1/500		
BM (30°-60°)	606.0	9.9	B1/1000		
BH (60°-80°)	369.8	6.1	B1/500		G1/500
BVH (80°-90°)	40.1	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: P573144
 CATALOG NUMBER: ARCH-S-PA2-40-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	764.9	761.6	760.0	761.6	760.0	756.7	758.3	756.7	755.0	753.4	753.4
5°	774.8	771.5	769.9	771.5	773.2	769.9	769.9	769.9	764.9	763.3	760.0
7.5°	781.4	776.5	776.5	779.8	783.1	784.7	788.1	786.4	781.4	778.1	771.5
10°	802.9	796.3	796.3	796.3	799.6	802.9	806.2	807.9	806.2	804.6	799.6
12.5°	836.0	829.4	829.4	829.4	829.4	827.7	832.7	834.3	837.6	837.6	829.4
15°	880.6	872.3	869.0	862.4	860.7	857.4	864.0	864.0	869.0	870.7	862.4
17.5°	923.5	913.6	910.3	903.7	897.1	888.8	895.4	897.1	907.0	908.7	895.4
20°	968.1	964.8	959.9	950.0	938.4	930.1	936.7	935.1	943.3	946.7	930.1
22.5°	1026.0	1017.7	1014.4	1001.2	988.0	979.7	979.7	983.0	991.3	991.3	966.5
25°	1095.3	1083.8	1075.5	1060.6	1044.1	1034.2	1035.9	1039.2	1050.7	1042.5	1004.5
27.5°	1181.3	1169.7	1158.1	1128.4	1111.9	1092.0	1090.4	1093.7	1111.9	1090.4	1040.8
30°	1262.2	1257.2	1247.3	1224.2	1197.8	1164.7	1149.9	1151.5	1164.7	1135.0	1072.2
32.5°	1331.6	1325.0	1320.0	1303.5	1285.3	1245.7	1225.9	1227.5	1225.9	1189.5	1110.2
35°	1414.2	1404.3	1401.0	1386.1	1363.0	1336.5	1328.3	1325.0	1315.1	1265.5	1159.8
37.5°	1493.5	1483.6	1478.6	1470.4	1452.2	1429.1	1429.1	1427.4	1407.6	1338.2	1209.3
40°	1587.7	1576.1	1561.2	1556.3	1541.4	1524.9	1511.7	1503.4	1468.7	1405.9	1305.2
42.5°	1701.7	1695.1	1686.8	1665.3	1642.2	1638.9	1600.9	1597.6	1572.8	1536.5	1440.6
45°	1865.2	1852.0	1840.4	1833.8	1805.7	1776.0	1723.1	1709.9	1709.9	1701.7	1599.2
47.5°	2030.4	2007.3	2023.8	2018.9	2012.3	1979.2	1876.8	1878.4	1875.1	1896.6	1832.2
50°	2141.1	2127.9	2174.2	2195.6	2241.9	2241.9	2094.9	2076.7	2089.9	2152.7	2070.1
52.5°	2227.0	2218.8	2271.6	2355.9	2493.0	2506.2	2354.2	2316.2	2334.4	2423.6	2390.6
55°	2296.4	2288.2	2349.3	2496.3	2716.1	2797.0	2653.3	2636.8	2600.4	2696.2	2706.1
57.5°	2337.7	2319.5	2412.1	2608.7	2897.8	3084.5	3003.5	2998.6	2914.3	3003.5	3048.1
60°	2274.9	2263.4	2390.6	2654.9	3044.8	3355.4	3414.9	3414.9	3264.6	3312.5	3367.0
62.5°	2071.7	2056.9	2190.7	2547.5	3063.0	3576.8	3823.0	3803.1	3601.6	3599.9	3552.0
65°	1685.1	1667.0	1817.3	2194.0	2833.4	3603.2	4098.9	4087.3	3854.4	3788.3	3563.6
67°	1224.2	1212.6	1341.5	1714.9	2387.3	3373.6	4133.6	4143.5	3955.1	3814.7	3396.7
67.5°	1098.6	1097.0	1204.4	1574.5	2256.8	3289.3	4110.4	4120.3	3953.5	3793.2	3330.6
70°	512.2	535.3	636.1	902.0	1521.6	2590.5	3730.4	3768.4	3742.0	3545.4	2805.3
72.5°	237.9	247.8	292.4	436.2	817.8	1670.3	3023.3	3114.2	3229.9	3041.5	2222.1
75°	147.0	150.3	175.1	226.3	384.9	802.9	2152.7	2251.8	2426.9	2288.2	1420.8
77.5°	115.6	117.3	133.8	161.9	224.7	345.3	1181.3	1305.2	1533.1	1353.1	715.4
80°	85.9	89.2	102.4	125.6	158.6	176.8	502.2	548.5	740.1	566.7	297.4
82.5°	62.8	66.1	79.3	90.9	110.7	112.3	204.9	216.4	317.2	229.6	128.9
85°	52.9	52.9	61.1	67.7	74.3	62.8	100.8	99.1	122.3	104.1	51.2
87.5°	24.8	26.4	57.8	43.0	36.3	26.4	29.7	31.4	38.0	41.3	19.8
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: P573144
 CATALOG NUMBER: ARCH-S-PA2-40-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	751.7	751.7	751.7	753.4	755.0	755.0	756.7	756.7	758.3	760.0	763.3
5°	758.3	758.3	756.7	758.3	761.6	763.3	766.6	769.9	773.2	776.5	778.1
7.5°	771.5	769.9	769.9	769.9	773.2	776.5	781.4	784.7	789.7	791.4	794.7
10°	796.3	793.0	793.0	794.7	796.3	791.4	789.7	788.1	793.0	796.3	799.6
12.5°	826.1	822.7	821.1	816.1	809.5	799.6	791.4	784.7	786.4	789.7	794.7
15°	857.4	850.8	847.5	836.0	819.4	798.0	784.7	776.5	776.5	776.5	781.4
17.5°	890.5	883.9	870.7	849.2	817.8	788.1	771.5	756.7	750.1	748.4	751.7
20°	921.9	912.0	890.5	857.4	807.9	768.2	746.7	722.0	712.1	705.4	708.8
22.5°	951.6	938.4	908.7	857.4	791.4	738.5	700.5	667.4	650.9	647.6	649.3
25°	983.0	966.5	926.8	847.5	755.0	693.9	641.0	606.3	584.8	581.5	586.5
27.5°	1014.4	989.6	941.7	821.1	713.7	632.8	576.6	543.5	532.0	525.4	527.0
30°	1040.8	1017.7	956.6	784.7	657.5	561.7	510.5	495.6	487.4	484.1	484.1
32.5°	1075.5	1054.0	966.5	741.8	591.5	497.3	464.2	452.7	446.1	437.8	439.5
35°	1118.5	1098.6	961.5	687.3	528.7	454.3	427.9	411.4	396.5	384.9	383.3
37.5°	1176.3	1161.4	936.7	621.2	470.8	422.9	396.5	375.0	353.5	335.4	332.1
40°	1272.1	1237.4	900.4	548.5	431.2	398.2	366.8	340.3	313.9	294.1	289.1
42.5°	1394.4	1321.7	850.8	474.2	398.2	371.7	340.3	305.6	280.9	262.7	262.7
45°	1536.5	1412.5	791.4	418.0	363.5	345.3	307.3	277.6	262.7	251.1	249.5
47.5°	1705.0	1503.4	715.4	373.4	335.4	322.2	284.2	266.0	256.1	246.2	244.5
50°	1931.3	1625.7	659.2	335.4	307.3	295.7	277.6	262.7	252.8	246.2	244.5
52.5°	2190.7	1782.6	619.5	305.6	284.2	279.2	275.9	264.3	254.4	249.5	247.8
55°	2471.5	1975.9	581.5	280.9	266.0	272.6	279.2	267.6	261.0	254.4	251.1
57.5°	2735.9	2139.5	520.4	259.4	252.8	264.3	277.6	269.3	261.0	256.1	254.4
60°	2916.0	2222.1	436.2	239.6	239.6	252.8	272.6	261.0	252.8	254.4	254.4
62.5°	2973.8	2190.7	345.3	221.4	226.3	239.6	257.7	251.1	247.8	256.1	256.1
65°	2887.9	2063.5	275.9	206.5	213.1	223.0	249.5	256.1	266.0	284.2	285.8
67°	2663.2	1858.6	232.9	194.9	201.6	218.1	259.4	282.5	282.5	302.3	302.3
67.5°	2597.1	1789.2	226.3	191.6	199.9	218.1	264.3	289.1	282.5	305.6	305.6
70°	2111.4	1407.6	191.6	181.7	193.3	229.6	285.8	290.8	275.9	297.4	295.7
72.5°	1566.2	1017.7	175.1	171.8	180.1	216.4	284.2	279.2	257.7	264.3	259.4
75°	968.1	589.8	161.9	158.6	163.6	191.6	262.7	254.4	229.6	224.7	219.7
77.5°	467.5	299.0	138.8	143.7	148.7	166.9	231.3	223.0	201.6	190.0	188.3
80°	203.2	153.6	119.0	127.2	128.9	142.1	191.6	181.7	161.9	143.7	143.7
82.5°	100.8	85.9	94.2	105.7	102.4	114.0	150.3	133.8	119.0	99.1	95.8
85°	46.3	49.6	69.4	79.3	69.4	71.0	102.4	94.2	74.3	56.2	57.8
87.5°	16.5	23.1	39.7	47.9	34.7	33.0	54.5	39.7	23.1	6.6	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

(END OF REPORT)