

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: P397729

Luminaire Tested: **ARCH-S-PA1-30-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2494 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 31
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: 28.75 FT

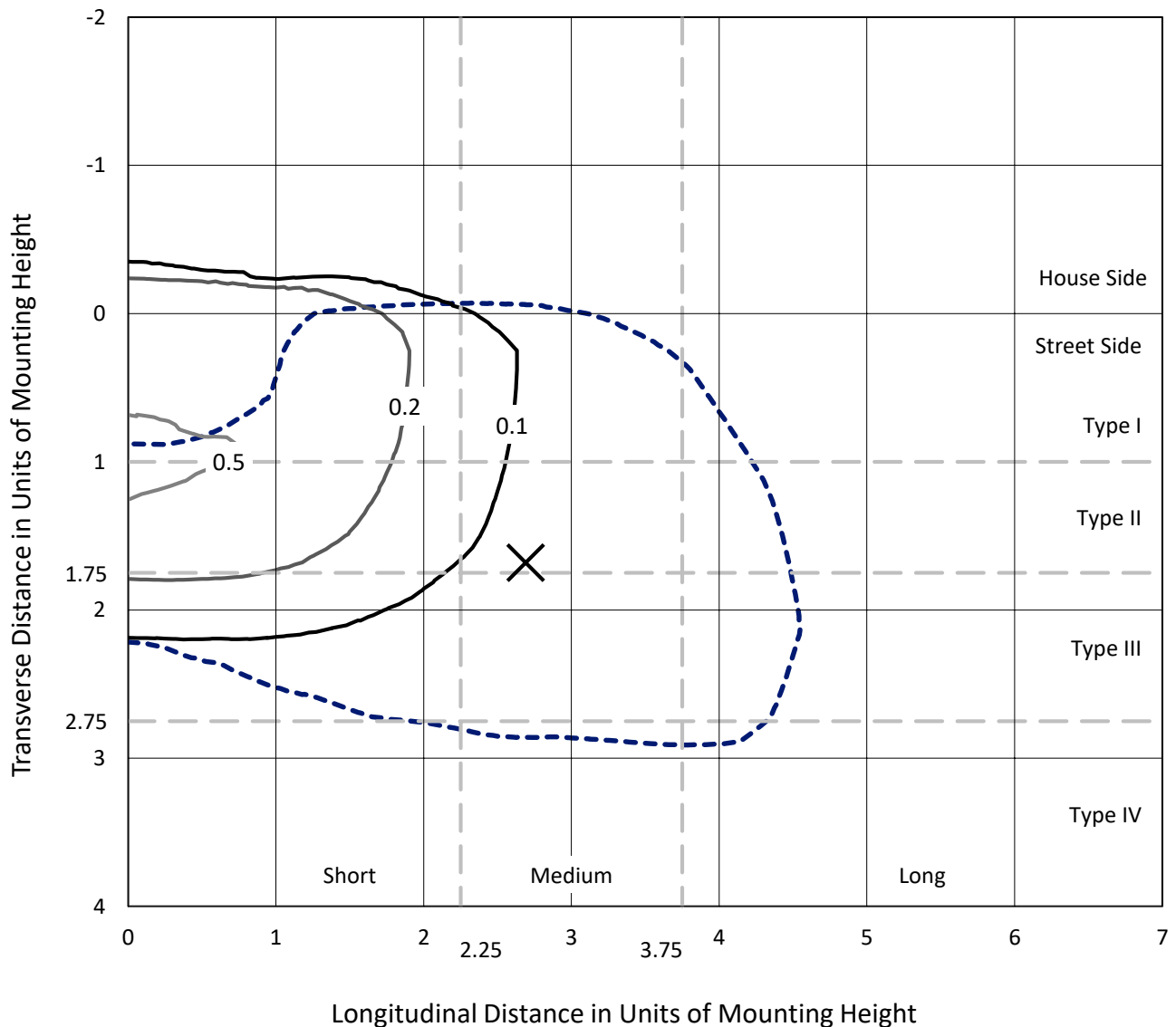


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

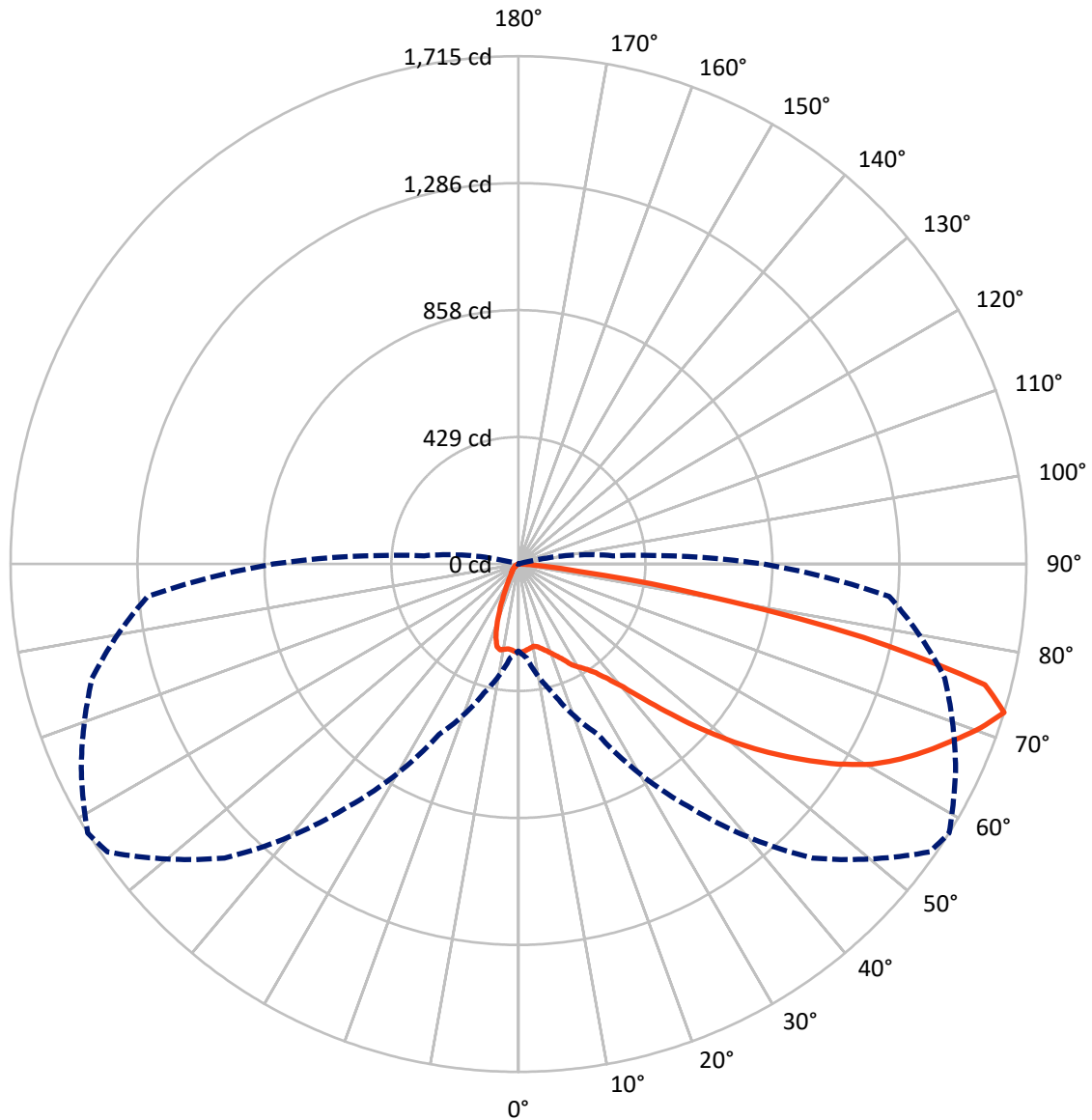


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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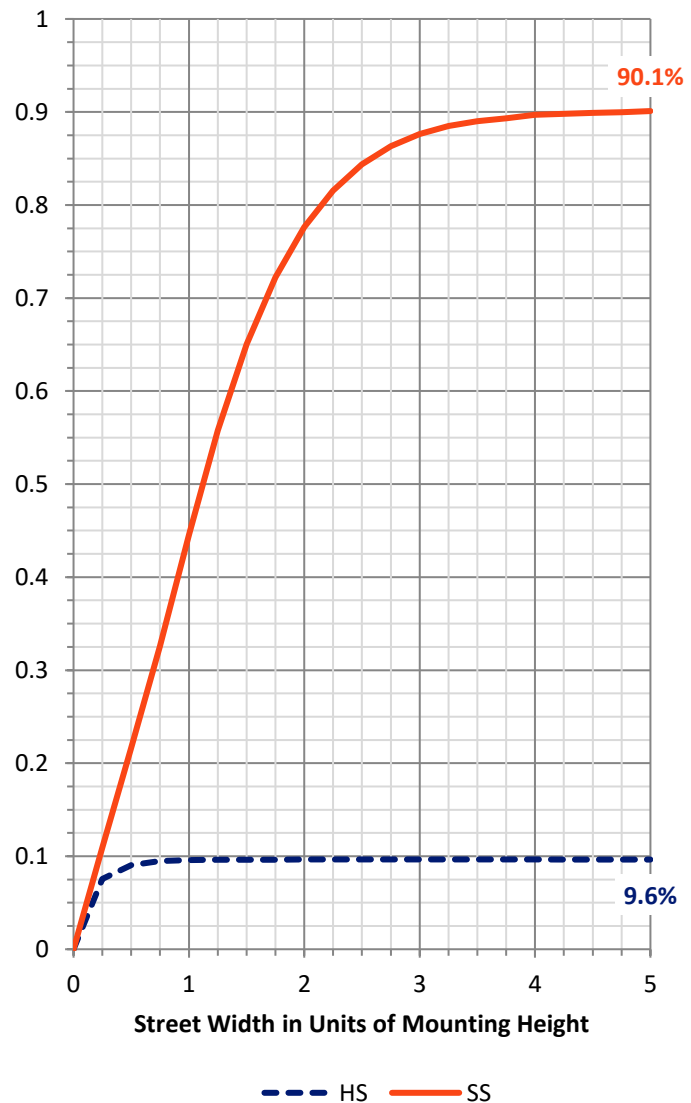
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	242.5	0.0	242.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2251.5	0.0	2251.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	2494.0	0.0	2494.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.1
10°-20°	71.5	2.9
20°-30°	112.4	4.5
30°-40°	193.8	7.8
40°-50°	368.7	14.8
50°-60°	583.9	23.4
60°-70°	681.4	27.3
70°-80°	426.8	17.1
80°-90°	28.0	1.1
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°	2494.0	100.0
0°-180°	2494.0	100.0



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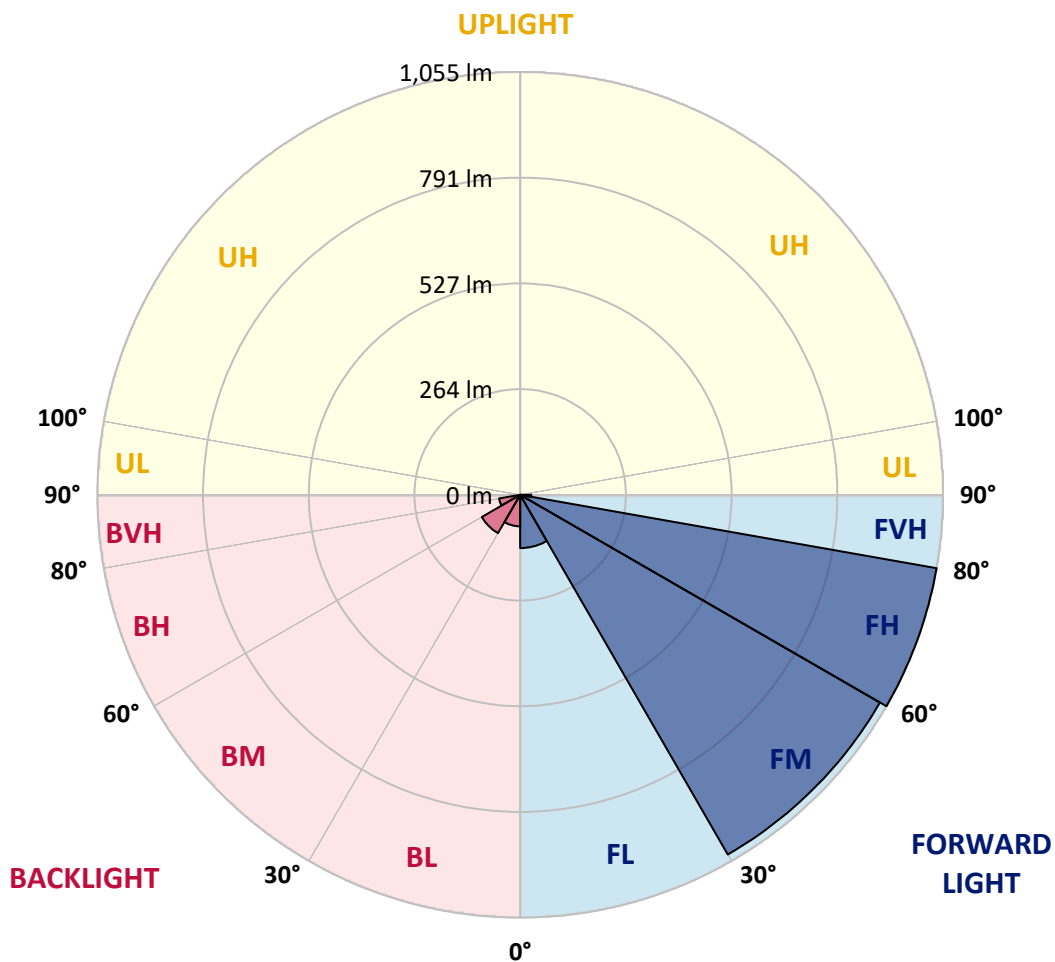
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	132.8	5.3			
FM	(30°-60°)	1036.1	41.5			
FH	(60°-80°)	1054.8	42.3			G1/1800
FVH	(80°-90°)	27.7	1.1			G1/100
BL	(0°-30°)	78.5	3.1	B0/110		
BM	(30°-60°)	110.4	4.4	B0/220		
BH	(60°-80°)	53.4	2.1	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3
2.5°	297.9	296.6	296.1	295.7	296.1	296.6	295.3	296.6	295.7	296.1	297.0
5°	287.2	285.9	285.4	285.9	287.2	289.5	290.3	291.7	291.7	293.0	293.5
7.5°	275.2	274.3	273.8	274.7	277.4	282.3	285.0	286.8	288.6	291.2	293.9
10°	268.5	268.0	267.6	268.9	271.6	276.1	279.6	282.3	289.0	296.6	301.5
12.5°	264.0	264.0	264.9	267.6	271.2	274.7	283.2	286.8	297.0	308.6	315.3
15°	260.5	260.5	261.8	266.7	271.6	280.1	292.6	296.6	308.6	322.9	331.8
17.5°	257.8	258.7	259.6	264.5	273.8	288.1	302.8	308.6	323.3	339.0	348.8
20°	258.2	259.1	259.6	264.5	277.9	297.5	316.2	322.9	339.9	356.4	366.2
22.5°	260.9	262.2	262.7	269.4	285.0	307.3	331.4	339.0	357.2	374.6	382.2
25°	272.1	273.0	270.3	276.1	295.3	322.5	351.0	359.0	377.3	393.4	399.6
27.5°	310.0	310.9	296.1	289.5	303.3	334.9	375.1	386.2	409.0	419.7	420.6
30°	392.0	392.9	363.9	332.3	322.5	345.6	388.5	404.1	433.5	445.6	440.2
32.5°	497.7	496.8	457.1	410.3	367.9	364.4	407.6	424.1	456.3	467.9	463.8
35°	603.9	605.2	571.3	500.9	440.2	399.6	432.2	451.4	490.2	506.7	499.5
37.5°	676.6	685.5	670.8	594.5	529.0	464.7	471.9	492.4	541.0	563.3	548.1
40°	779.2	776.9	741.2	685.1	627.1	561.1	536.1	545.9	601.7	631.5	607.9
42.5°	917.0	912.5	851.9	797.0	732.3	678.4	627.5	625.7	671.2	706.0	671.7
45°	1041.9	1035.2	993.7	940.6	869.7	807.7	739.0	723.4	755.1	784.5	744.4
47.5°	1141.3	1130.2	1100.7	1072.6	1055.2	958.9	855.9	832.2	848.3	870.1	813.5
50°	1259.1	1228.3	1185.5	1168.5	1204.6	1130.2	968.3	945.5	944.6	957.1	884.9
52.5°	1312.6	1256.8	1232.7	1247.0	1310.8	1289.4	1089.6	1057.0	1044.1	1045.4	951.3
55°	1247.9	1241.7	1254.6	1299.2	1382.6	1370.1	1206.0	1165.8	1146.7	1122.6	1015.1
57.5°	1174.3	1193.5	1244.8	1330.0	1473.6	1454.4	1320.6	1275.1	1239.9	1184.6	1086.0
60°	1106.5	1126.1	1210.9	1337.1	1523.5	1535.6	1416.0	1372.8	1320.6	1247.9	1164.1
62.5°	1003.5	1018.7	1137.7	1326.8	1501.7	1582.8	1482.5	1449.9	1401.3	1308.1	1253.7
65°	887.5	897.3	1015.1	1244.8	1458.9	1577.5	1537.4	1519.1	1471.8	1371.0	1342.5
67.5°	760.4	772.0	870.1	1097.2	1375.0	1552.5	1589.1	1587.3	1533.3	1440.6	1406.7
70°	614.1	615.0	696.2	909.8	1228.7	1502.6	1653.3	1657.3	1592.2	1492.8	1409.4
72.5°	293.9	318.0	451.4	635.1	998.6	1404.4	1695.2	1715.3	1629.2	1491.0	1257.3
75°	67.3	69.6	131.6	301.9	585.6	1078.0	1590.4	1627.9	1539.1	1289.4	885.8
77.5°	24.5	25.9	37.0	88.3	225.2	557.1	1138.2	1193.0	1137.7	833.6	418.8
80°	16.5	16.1	19.2	39.2	103.5	157.9	582.0	614.6	561.1	284.5	100.3
82.5°	8.5	8.9	13.4	21.9	69.6	54.9	194.5	211.4	173.9	57.1	18.7
85°	4.0	4.0	7.6	13.8	29.4	19.2	43.3	52.2	46.8	25.0	6.2
87.5°	4.0	4.0	7.1	8.9	15.2	8.0	10.7	13.4	12.5	13.4	2.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3
2.5°	297.0	296.6	296.1	297.0	296.6	297.5	297.5	298.4	298.4	297.5	297.0
5°	293.0	292.1	291.2	291.2	290.8	291.7	294.4	296.6	297.0	295.7	295.3
7.5°	293.5	293.5	292.6	290.8	287.7	287.7	287.7	290.3	291.7	290.8	290.3
10°	301.5	301.9	299.7	295.7	290.3	285.4	276.1	262.2	249.3	245.7	244.4
12.5°	315.3	315.8	311.3	304.2	293.0	264.0	228.4	195.3	169.9	162.8	161.5
15°	331.8	332.3	324.2	312.6	278.7	211.4	158.3	120.9	98.6	93.2	92.8
17.5°	348.8	347.9	335.8	313.5	236.4	149.9	96.3	77.2	71.4	70.0	70.5
20°	365.3	362.6	346.1	297.0	182.0	98.1	70.5	66.0	64.7	63.8	63.8
22.5°	380.4	375.1	354.6	264.5	127.6	70.5	62.9	62.0	60.2	58.9	58.4
25°	395.6	388.0	359.9	222.1	85.6	61.5	59.3	57.5	55.3	53.5	53.1
27.5°	413.9	403.2	357.2	168.6	64.2	57.1	55.3	52.6	49.5	46.8	45.9
30°	431.3	419.2	342.1	116.4	54.9	52.6	50.0	45.9	41.9	38.8	37.9
32.5°	453.1	439.3	314.9	76.3	47.7	45.9	43.3	38.4	33.0	29.4	28.5
35°	484.4	468.7	280.1	53.5	41.9	38.8	35.2	29.9	24.1	21.4	21.0
37.5°	528.1	507.1	236.4	43.3	37.0	32.6	27.2	21.9	17.8	15.6	15.2
40°	581.6	549.5	187.8	38.4	33.0	27.2	20.5	15.6	12.9	11.1	11.1
42.5°	639.6	589.2	138.3	35.2	29.0	22.3	15.2	11.1	9.4	8.5	8.0
45°	699.3	624.4	93.2	32.6	25.4	16.9	10.7	7.6	6.2	6.2	5.8
47.5°	761.3	648.0	60.2	29.4	21.4	12.5	7.1	5.4	4.5	4.5	4.5
50°	822.9	660.5	42.8	26.8	17.4	8.5	5.4	4.0	3.6	3.6	3.6
52.5°	867.5	652.5	34.3	23.2	13.4	6.2	4.0	3.1	2.7	2.7	2.7
55°	906.3	638.7	29.9	20.1	9.8	4.5	3.1	2.7	2.2	2.2	2.2
57.5°	946.0	620.8	26.8	16.9	7.1	3.1	2.2	1.8	1.8	1.8	1.8
60°	982.1	590.5	23.2	13.4	4.9	2.2	1.8	1.3	1.3	1.3	1.3
62.5°	1017.3	564.6	20.1	10.3	3.6	1.8	0.9	0.9	0.4	0.4	0.4
65°	1037.4	529.8	16.1	6.7	2.2	1.3	0.4	0.4	0.0	0.0	0.0
67.5°	1031.1	488.4	11.1	4.0	1.3	0.9	0.4	0.0	0.0	0.0	0.0
70°	987.9	432.6	6.7	2.2	1.3	0.9	0.4	0.0	0.0	0.0	0.0
72.5°	827.3	320.2	4.0	1.8	0.9	0.4	0.0	0.0	0.0	0.0	0.0
75°	552.6	147.2	2.2	1.3	0.4	0.4	0.0	0.0	0.0	0.0	0.0
77.5°	252.9	44.2	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	50.8	11.6	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.7	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)