

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: P348851

Luminaire Tested: **ARCH-N-PA1-30-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-30-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2449 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full 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

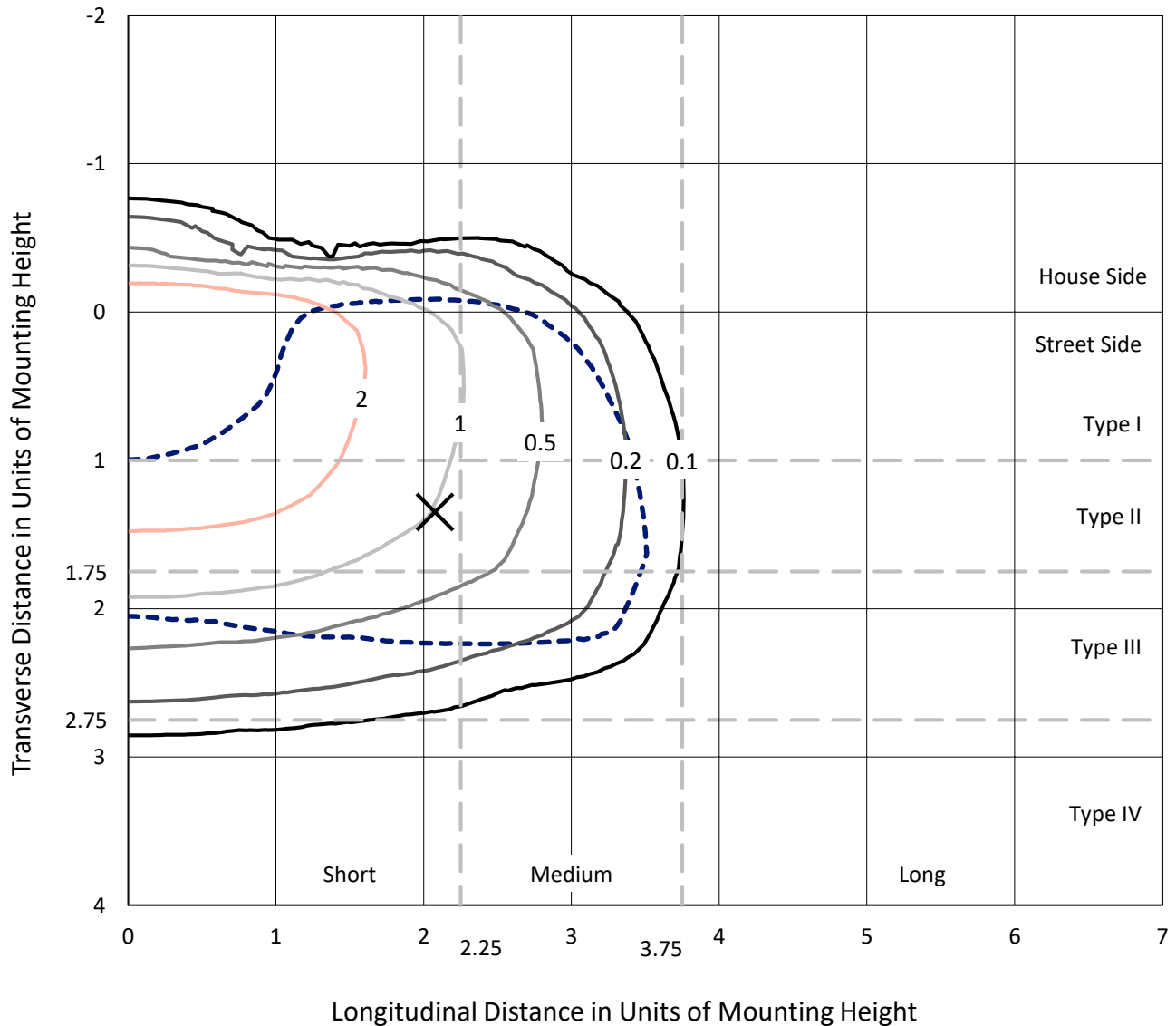


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

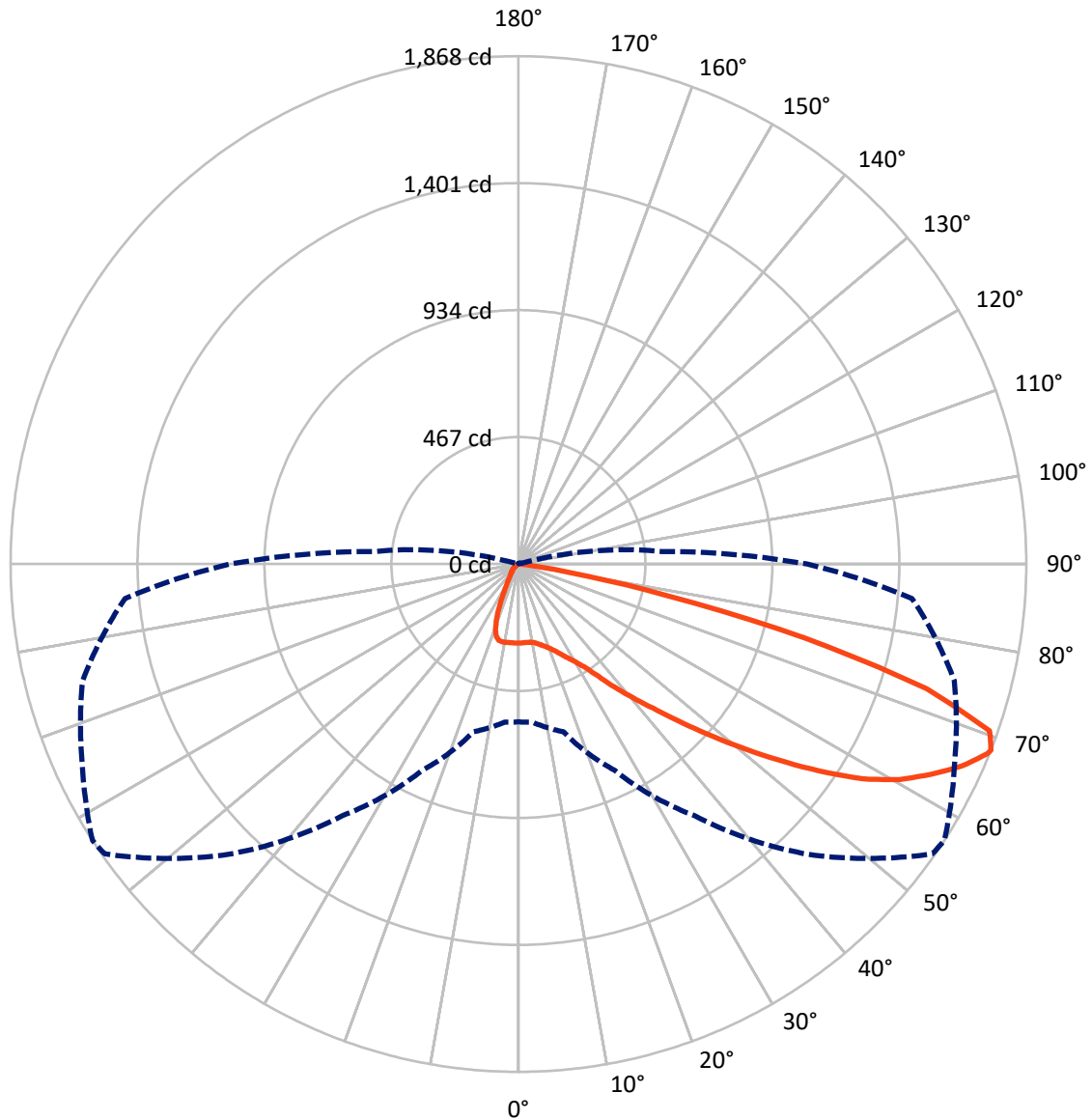


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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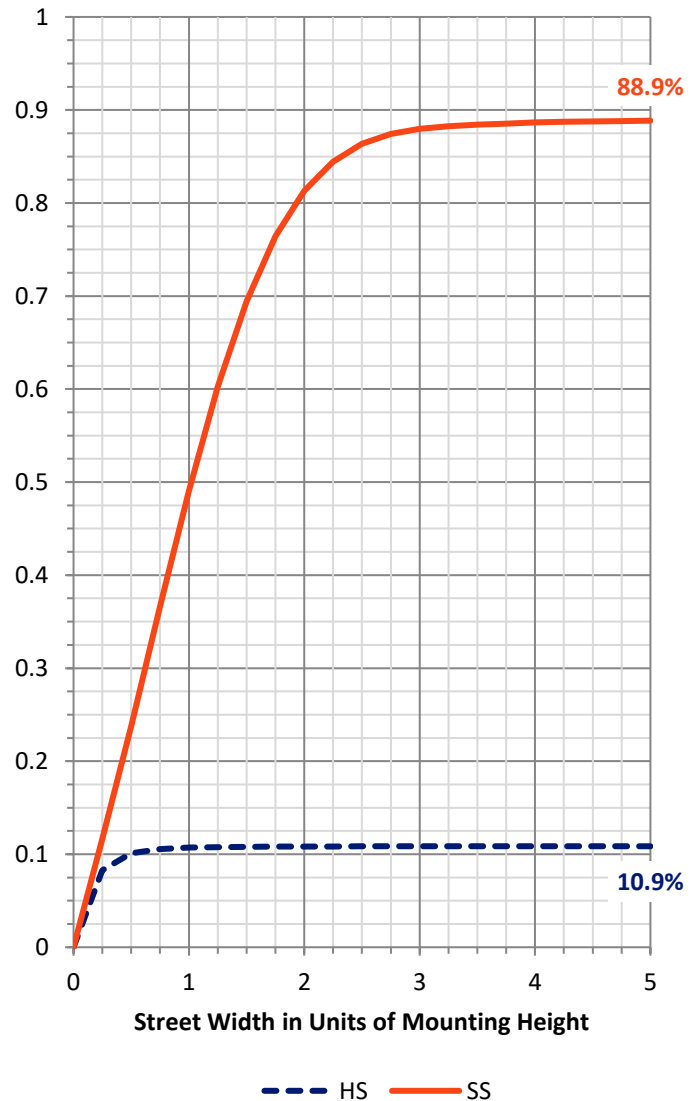
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	268.5	0.0	268.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	2180.5	0.0	2180.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	2449.0	0.0	2449.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	1.1
10°-20°	75.5	3.1
20°-30°	130.2	5.3
30°-40°	224.7	9.2
40°-50°	384.3	15.7
50°-60°	614.9	25.1
60°-70°	710.5	29.0
70°-80°	271.5	11.1
80°-90°	10.2	0.4
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°	2449.0	100.0
0°-180°	2449.0	100.0



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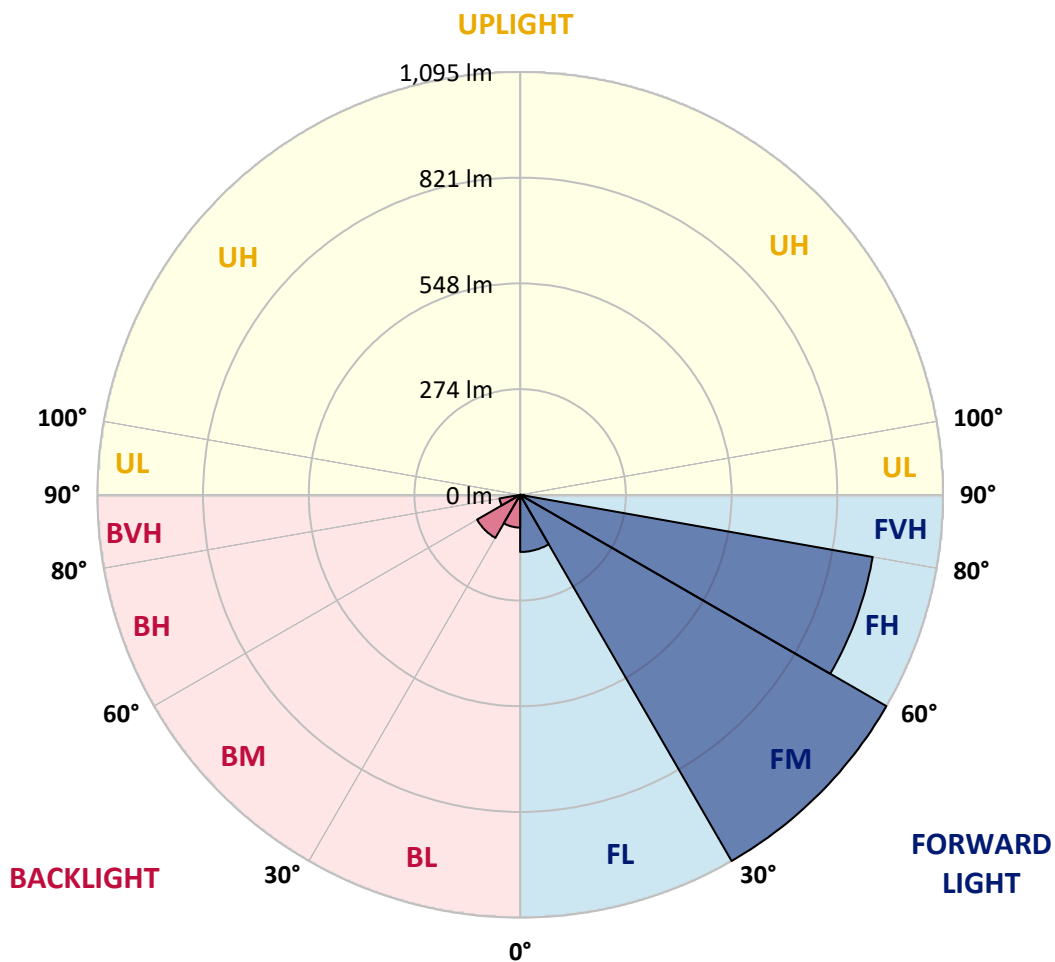
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	148.0	6.0			
FM	(30°-60°)	1095.2	44.7			
FH	(60°-80°)	927.3	37.9			G1/1800
FVH	(80°-90°)	10.0	0.4			G0/10
BL	(0°-30°)	84.9	3.5	B0/110		
BM	(30°-60°)	128.8	5.3	B0/220		
BH	(60°-80°)	54.7	2.2	B0/110		G0/110
BVH	(80°-90°)	0.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0
2.5°	284.2	285.4	286.4	287.0	287.6	289.2	289.6	290.3	290.7	290.7	291.5
5°	272.9	274.3	276.3	277.9	281.2	285.3	288.3	289.5	291.6	293.4	294.5
7.5°	262.5	264.1	266.5	270.3	275.8	282.6	288.8	290.4	294.5	298.4	300.4
10°	255.8	257.1	260.1	265.5	272.8	282.2	291.0	293.0	299.9	306.5	310.2
12.5°	253.5	254.6	257.8	263.9	272.9	283.9	296.1	299.0	309.2	318.8	324.0
15°	256.8	257.1	260.4	266.2	275.1	288.2	304.6	308.0	320.9	333.4	339.9
17.5°	269.8	268.8	270.5	273.1	280.1	293.9	313.5	318.7	335.8	350.5	356.7
20°	302.2	302.2	298.3	291.4	291.5	302.7	325.5	331.4	352.4	369.4	375.0
22.5°	357.7	356.7	348.8	331.8	316.1	317.9	340.2	347.9	372.3	390.5	392.3
25°	424.4	423.1	411.0	387.0	359.9	342.4	360.1	368.9	396.0	412.1	408.3
27.5°	495.0	494.0	482.0	452.2	413.6	381.6	383.9	392.2	420.2	436.1	423.9
30°	563.5	563.8	551.9	521.3	477.7	431.5	414.0	418.8	443.7	459.8	442.5
32.5°	628.6	629.0	618.7	584.6	543.8	489.5	455.7	454.4	471.1	486.9	467.0
35°	686.6	687.7	680.7	654.2	611.0	554.1	509.8	506.7	509.9	527.8	504.7
37.5°	742.5	743.2	737.9	715.5	679.4	625.1	578.1	573.8	567.1	580.9	554.3
40°	803.8	802.0	795.9	775.6	744.6	703.5	651.5	644.1	632.4	644.7	619.6
42.5°	860.7	858.8	859.8	836.9	810.7	784.1	737.1	724.3	717.5	731.6	699.8
45°	932.0	930.9	934.4	914.5	893.3	873.9	835.2	821.3	818.2	834.8	796.7
47.5°	1002.3	1004.8	1015.6	1007.1	998.5	981.5	939.0	932.8	934.6	954.7	899.0
50°	1060.8	1063.9	1093.4	1103.1	1115.5	1105.5	1062.9	1059.1	1066.4	1084.5	1009.0
52.5°	1103.2	1109.4	1146.1	1190.9	1236.1	1242.8	1200.3	1196.8	1206.6	1209.4	1094.0
55°	1132.6	1138.1	1179.7	1261.6	1353.6	1382.5	1356.1	1342.7	1340.8	1313.4	1183.4
57.5°	1137.9	1137.3	1197.0	1307.4	1445.8	1520.5	1503.8	1490.6	1452.6	1409.5	1285.8
60°	1108.4	1111.8	1181.2	1323.2	1503.7	1624.8	1626.1	1608.9	1549.8	1503.0	1385.2
62.5°	1017.9	1031.5	1101.6	1281.7	1503.0	1666.8	1715.7	1702.6	1631.9	1579.5	1485.9
65°	871.0	875.9	942.7	1139.2	1401.4	1649.2	1796.4	1791.5	1705.9	1653.9	1537.7
67.5°	636.1	625.6	695.7	897.1	1186.5	1546.6	1854.3	1860.4	1762.9	1669.1	1482.6
68°	580.5	583.6	638.3	837.2	1130.2	1510.4	1858.1	1867.5	1768.6	1659.2	1452.5
70°	346.0	352.0	400.8	576.5	859.8	1305.3	1816.9	1838.3	1734.8	1556.5	1256.3
72.5°	88.4	95.5	141.6	258.0	491.1	919.7	1533.8	1570.0	1506.2	1262.7	848.1
75°	36.4	38.2	50.6	85.0	183.0	414.3	1010.9	1088.5	1044.2	755.9	383.3
77.5°	25.1	26.4	32.5	47.1	79.2	140.5	495.6	551.7	497.0	258.0	83.6
80°	18.1	19.1	23.3	31.4	45.5	50.1	161.5	186.8	148.3	56.6	20.7
82.5°	10.8	11.6	17.4	22.3	27.7	24.0	40.2	45.6	43.0	28.1	9.3
85°	5.3	6.3	11.7	16.0	14.9	10.1	12.3	13.7	16.9	17.1	5.0
87.5°	0.3	0.7	6.8	9.6	4.2	2.3	3.6	4.4	6.0	8.5	2.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0
2.5°	291.8	291.9	291.1	290.8	291.0	289.6	289.0	289.3	289.3	289.6	289.0
5°	294.7	294.7	293.3	291.5	290.4	287.8	286.0	285.6	285.2	285.0	284.5
7.5°	301.0	300.3	297.8	293.8	290.3	284.5	280.1	277.8	276.6	276.2	275.8
10°	311.0	309.8	305.7	298.2	290.2	279.9	270.3	263.4	257.8	255.5	254.1
12.5°	324.6	322.7	315.9	303.4	289.4	270.4	249.5	229.5	210.9	203.2	199.4
15°	340.2	337.6	326.8	307.8	284.6	249.0	203.7	168.6	142.8	133.1	128.9
17.5°	356.1	352.6	336.3	310.6	270.4	204.6	142.9	107.9	90.7	86.0	84.4
20°	372.1	367.0	344.5	308.5	238.2	147.5	94.3	78.9	73.9	72.5	72.0
22.5°	387.2	379.4	351.9	300.4	188.6	99.0	74.6	69.7	68.1	67.3	67.0
25°	400.4	389.4	358.4	275.4	133.5	74.8	67.2	65.5	63.5	62.0	62.1
27.5°	412.8	399.5	362.3	234.1	89.1	63.9	62.2	60.0	56.2	54.0	54.0
30°	427.8	412.9	365.2	180.2	65.5	56.5	55.1	51.8	46.6	43.7	43.7
32.5°	450.2	433.3	363.4	126.5	54.3	49.7	46.4	41.8	36.1	33.4	33.2
35°	484.6	464.8	350.2	82.9	47.9	43.2	38.0	32.3	27.3	25.0	24.9
37.5°	530.9	507.0	320.5	59.3	43.0	37.2	30.9	24.7	21.0	19.5	19.3
40°	591.0	556.0	278.2	48.1	38.3	31.4	23.9	19.1	16.6	15.4	15.5
42.5°	663.2	608.4	227.3	41.5	33.8	25.8	18.6	15.1	13.4	12.6	12.4
45°	743.3	660.2	174.0	36.9	29.3	20.8	14.6	11.9	10.7	10.2	10.2
47.5°	831.4	710.5	127.4	33.0	24.4	16.1	11.7	9.7	8.7	8.3	8.2
50°	911.5	745.5	91.8	28.8	20.0	12.7	9.5	8.1	7.4	6.9	6.9
52.5°	978.2	756.5	67.6	24.3	16.2	10.2	7.9	6.9	6.3	5.9	5.9
55°	1036.9	752.0	50.3	20.0	13.1	8.3	6.7	5.9	5.3	5.0	5.0
57.5°	1093.2	737.4	37.5	16.3	10.5	6.7	5.7	5.0	4.4	4.2	4.2
60°	1139.1	713.1	27.9	13.2	8.5	5.4	4.7	4.1	3.6	3.2	3.2
62.5°	1176.4	686.2	20.5	10.9	6.7	4.3	3.7	3.4	2.7	2.3	2.3
65°	1176.6	641.6	15.4	9.0	5.2	3.4	2.8	2.7	1.7	1.4	1.3
67.5°	1091.5	553.2	11.8	7.8	4.1	2.5	2.1	2.2	0.9	0.6	0.5
68°	1060.6	530.7	11.1	7.6	3.8	2.4	2.0	2.2	0.8	0.5	0.3
70°	894.2	422.2	8.9	7.4	3.4	1.9	1.6	2.2	0.7	0.3	0.2
72.5°	571.9	245.0	6.6	5.9	2.5	1.4	1.0	2.0	0.7	0.2	0.1
75°	243.4	76.0	4.5	4.2	1.5	1.0	0.7	1.3	0.5	0.1	0.0
77.5°	51.3	17.1	2.7	2.5	1.0	0.7	0.5	0.3	0.1	0.0	0.0
80°	13.2	5.0	1.4	1.3	0.6	0.3	0.2	0.0	0.0	0.0	0.0
82.5°	4.2	2.0	0.8	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.3	0.1	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)