

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: P348983

Luminaire Tested: **ARCH-N-PA1-20-730-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-20-730-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2224 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

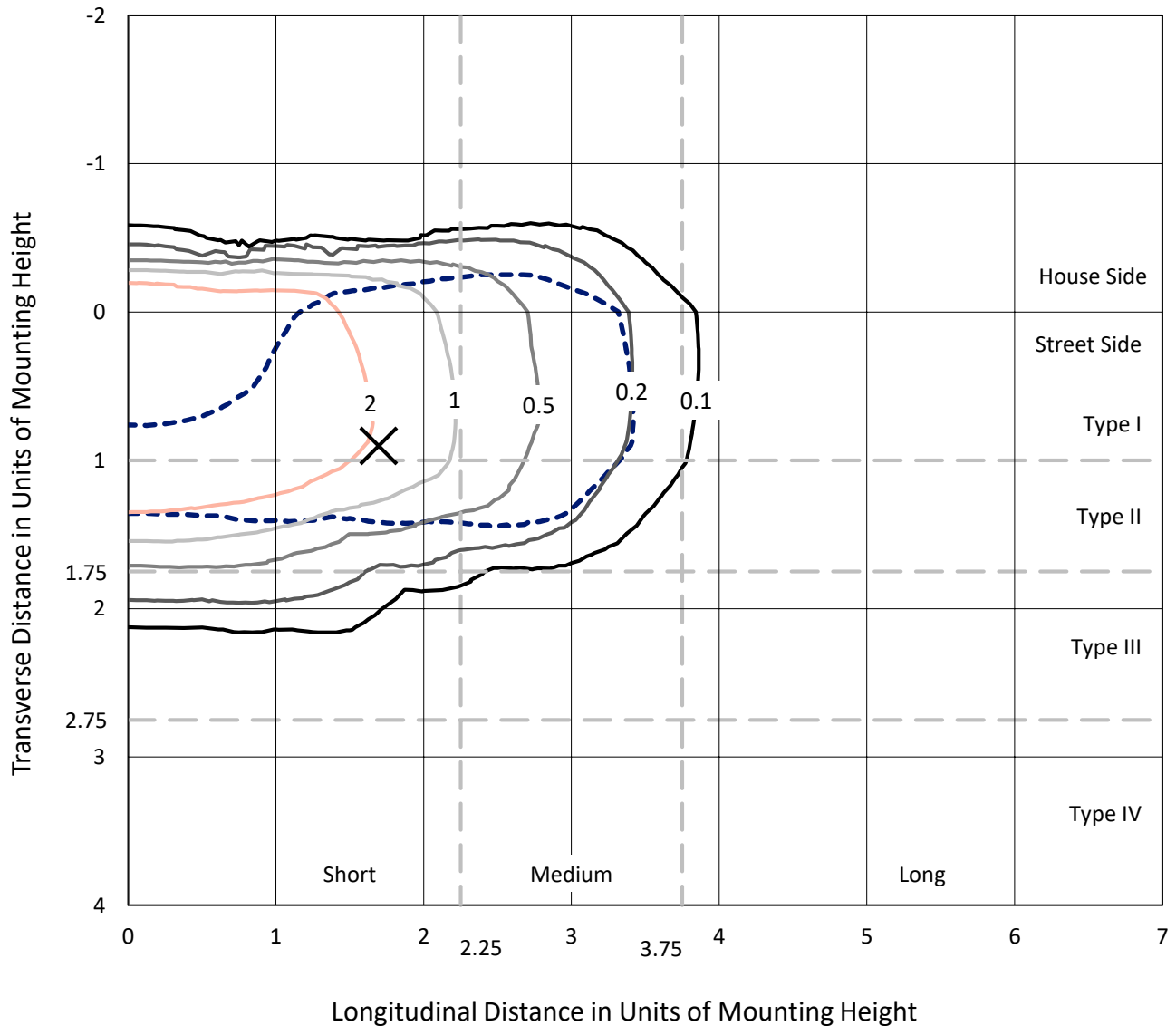
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348983
 CATALOG NUMBER: ARCH-N-PA1-20-730-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

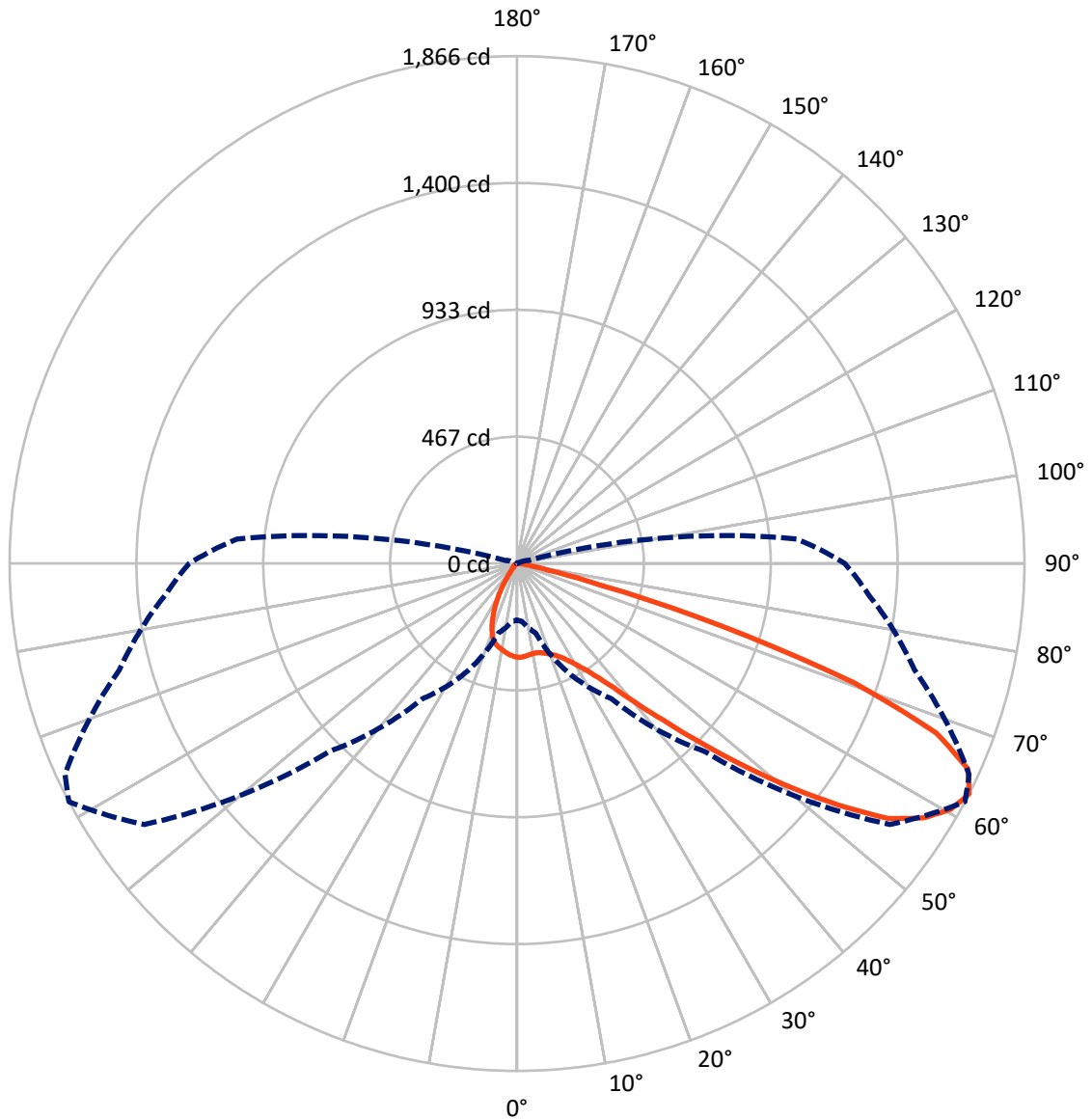
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P348983
CATALOG NUMBER: ARCH-N-PA1-20-730-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P348983

CATALOG NUMBER: ARCH-N-PA1-20-730-U-T2U-HSS

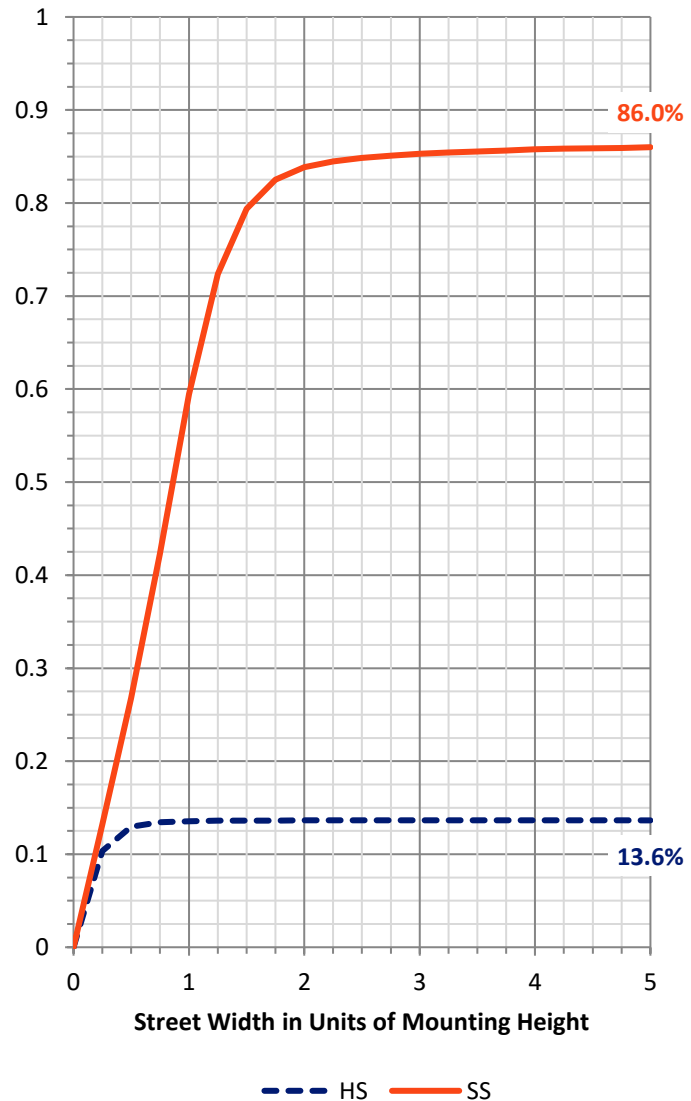
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	307.1	0.0	307.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	1916.9	0.0	1916.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	2224.0	0.0	2224.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	1.4
10°-20°	79.0	3.6
20°-30°	117.9	5.3
30°-40°	224.7	10.1
40°-50°	468.6	21.1
50°-60°	622.5	28.0
60°-70°	485.3	21.8
70°-80°	183.4	8.2
80°-90°	11.0	0.5
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°	2224.0	100.0
0°-180°	2224.0	100.0



REPORT NUMBER: P348983

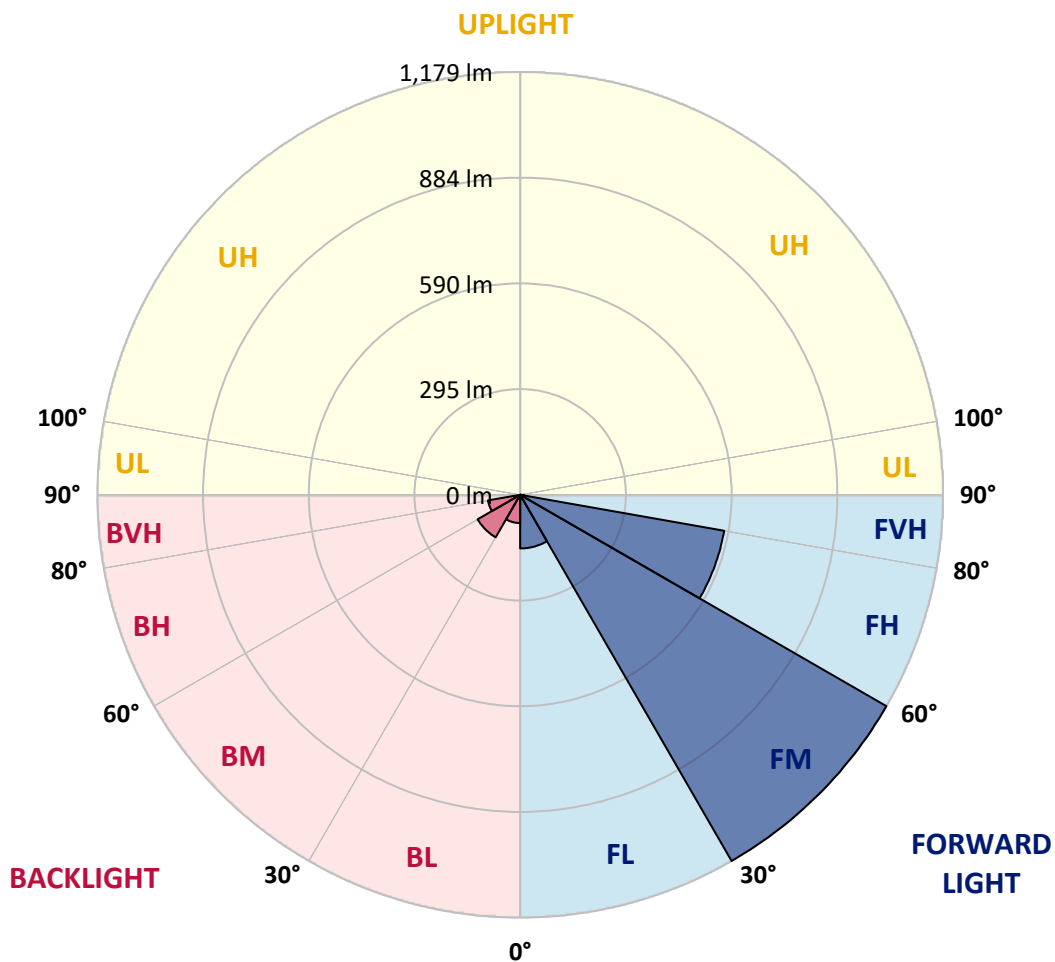
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	149.7	6.7			
FM (30°-60°)	1179.2	53.0			
FH (60°-80°)	577.6	26.0			G0/660
FVH (80°-90°)	10.5	0.5			G1/100
BL (0°-30°)	78.8	3.5	B0/110		
BM (30°-60°)	136.7	6.1	B0/220		
BH (60°-80°)	91.1	4.1	B0/110		G0/110
BVH (80°-90°)	0.5	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 II Short





REPORT NUMBER: P348983

CATALOG NUMBER: ARCH-N-PA1-20-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5
2.5°	344.4	343.8	345.2	345.2	344.9	345.5	344.9	344.6	344.4	343.8	343.2
5°	335.3	335.3	337.4	338.3	339.1	340.9	341.4	342.0	341.7	342.3	342.6
7.5°	324.9	325.5	327.8	329.0	330.4	333.9	335.9	338.3	338.5	340.6	341.7
10°	316.2	316.7	319.1	320.5	322.6	327.2	331.6	335.6	336.2	340.0	340.9
12.5°	310.4	310.9	313.3	315.3	319.7	325.5	331.6	336.2	337.7	342.3	342.3
15°	308.0	308.6	311.5	315.0	320.8	328.4	335.9	340.9	343.8	347.6	345.8
17.5°	307.2	308.3	313.3	318.5	324.9	333.0	342.3	347.6	350.5	354.5	350.7
20°	309.8	311.2	317.6	324.9	331.6	340.0	350.2	356.0	358.9	361.5	354.2
22.5°	319.1	321.4	326.9	335.1	340.3	350.5	360.6	367.3	370.5	370.2	360.6
25°	341.4	344.4	347.0	351.3	353.7	365.9	376.6	383.3	385.6	384.7	373.7
27.5°	394.3	398.1	388.8	379.2	374.0	385.3	397.2	404.2	406.3	404.5	387.7
30°	483.5	483.8	462.6	432.4	410.0	408.9	423.4	432.7	432.7	429.2	407.4
32.5°	613.4	604.1	577.4	523.9	473.4	446.9	458.0	467.0	467.0	462.6	437.6
35°	776.8	769.8	725.6	661.4	571.3	508.0	505.6	514.4	514.6	513.5	485.0
37.5°	943.0	925.8	888.9	811.9	706.1	601.8	573.9	580.0	584.4	583.8	548.4
40°	1097.6	1080.4	1049.3	975.2	871.8	740.1	673.3	673.3	673.6	670.7	628.0
42.5°	1219.0	1211.2	1187.9	1136.5	1056.6	957.8	807.3	785.2	780.5	777.6	721.5
45°	1297.8	1289.7	1277.2	1266.4	1240.5	1205.1	987.1	929.3	921.8	893.3	825.0
47.5°	1302.2	1289.7	1298.1	1338.8	1397.2	1415.5	1209.2	1097.3	1077.2	1025.8	928.7
50°	1205.1	1206.3	1239.1	1337.9	1495.7	1600.0	1444.5	1282.1	1250.4	1147.6	1020.3
52.5°	1026.7	1038.3	1089.1	1241.1	1500.3	1718.0	1649.4	1472.7	1410.0	1256.8	1084.8
55°	803.8	814.2	897.4	1061.8	1387.3	1734.8	1798.5	1655.2	1572.1	1333.0	1142.6
57.5°	568.4	588.2	691.3	842.4	1171.7	1606.1	1839.2	1764.5	1684.0	1407.1	1197.0
60°	345.5	355.4	462.6	638.4	883.1	1336.7	1791.5	1834.2	1769.1	1471.3	1247.8
62.5°	207.8	213.6	265.0	439.7	607.6	978.7	1673.5	1866.2	1834.2	1514.0	1296.6
65°	122.9	126.7	150.8	265.6	404.8	600.4	1418.7	1822.3	1848.2	1550.9	1325.1
67.5°	88.6	89.8	98.5	143.0	271.7	321.7	986.6	1662.5	1759.3	1563.1	1308.3
70°	76.4	77.9	86.3	100.5	192.4	189.8	513.5	1315.8	1491.3	1499.5	1237.1
72.5°	57.8	60.4	74.4	94.4	138.0	134.8	193.5	784.6	1012.4	1231.0	1066.5
75°	39.2	40.7	55.2	80.2	107.8	100.5	101.4	315.0	495.2	771.8	732.9
77.5°	24.7	25.9	33.7	57.5	92.4	70.9	71.8	111.9	178.7	327.2	314.1
80°	16.9	17.4	20.3	37.2	62.5	61.6	46.2	58.4	66.5	100.8	67.7
82.5°	10.2	10.2	13.4	22.1	37.8	48.8	29.1	32.3	35.5	37.5	15.4
85°	3.5	3.8	8.1	13.7	23.2	24.4	16.6	19.2	20.1	21.8	7.3
87.5°	1.5	1.2	4.4	7.6	9.9	11.3	9.6	8.7	9.6	12.8	3.2
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: P348983

CATALOG NUMBER: ARCH-N-PA1-20-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5
2.5°	343.5	342.3	342.3	342.0	340.3	339.4	338.5	336.2	337.7	335.9	334.8
5°	341.7	340.9	339.4	338.0	333.9	330.4	329.0	326.0	325.8	323.4	322.3
7.5°	341.4	339.4	337.1	332.1	326.0	320.5	315.6	310.6	308.6	306.0	304.5
10°	340.0	337.4	333.0	325.2	316.2	307.4	296.4	282.7	272.6	266.8	265.9
12.5°	340.3	337.4	330.7	319.1	307.2	288.0	258.3	227.2	201.7	190.9	189.2
15°	342.6	339.4	329.2	313.6	293.2	251.1	196.7	149.1	115.9	104.0	101.4
17.5°	345.5	340.0	326.0	305.7	266.5	194.7	123.8	78.2	59.6	52.9	51.7
20°	347.3	339.7	320.8	293.8	225.8	130.2	67.4	45.9	40.4	38.9	38.4
22.5°	351.6	340.6	316.5	275.2	174.6	78.5	42.7	35.7	32.5	30.8	30.5
25°	360.6	346.4	316.7	251.1	122.3	47.4	34.6	29.1	26.2	24.4	23.8
27.5°	373.7	356.8	322.3	221.1	75.6	35.7	28.8	23.5	20.3	18.9	18.6
30°	390.3	369.6	328.7	182.2	47.1	29.9	23.2	18.3	16.0	15.1	14.8
32.5°	416.4	391.7	334.2	136.3	32.5	24.7	18.3	14.5	13.1	12.2	12.2
35°	459.7	429.8	343.2	91.2	25.9	19.8	14.8	11.9	10.8	10.2	10.2
37.5°	520.7	484.1	347.6	56.7	21.2	15.4	11.9	9.9	9.0	8.4	8.4
40°	595.1	550.1	341.4	35.2	17.7	12.5	9.9	8.4	7.6	7.3	7.3
42.5°	680.9	625.9	322.3	25.0	14.8	10.2	8.4	7.3	6.7	6.4	6.4
45°	776.8	709.0	287.7	20.9	12.5	8.7	7.3	6.1	5.8	5.5	5.5
47.5°	872.4	793.3	242.9	18.0	10.5	7.3	6.1	5.2	4.9	4.6	4.6
50°	955.8	867.1	195.6	15.7	8.7	6.4	5.2	4.4	4.1	3.8	3.8
52.5°	1003.4	911.0	151.4	13.1	7.6	5.5	4.1	3.5	3.2	2.9	2.9
55°	1054.9	947.6	113.0	11.0	6.1	4.6	3.2	2.6	2.3	2.0	2.0
57.5°	1102.8	980.5	84.0	9.0	5.2	3.5	2.6	2.0	1.7	1.5	1.5
60°	1149.3	1008.4	62.2	7.3	4.4	2.9	2.0	1.5	1.2	0.9	0.9
62.5°	1206.0	1033.9	45.6	5.8	3.8	2.0	1.5	0.9	0.6	0.3	0.3
65°	1248.1	1047.0	34.3	4.4	3.2	1.5	0.9	0.6	0.0	0.0	0.0
67.5°	1247.8	1021.7	25.0	3.2	2.3	1.2	0.6	0.0	0.0	0.0	0.0
70°	1189.4	945.0	17.4	2.6	1.7	0.9	0.3	0.0	0.0	0.0	0.0
72.5°	1020.0	747.4	11.3	1.7	1.5	0.6	0.3	0.0	0.0	0.0	0.0
75°	688.4	379.5	6.7	1.5	1.2	0.6	0.3	0.0	0.0	0.0	0.0
77.5°	294.4	149.1	3.5	0.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0
80°	61.6	36.0	1.5	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	5.2	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	1.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.6	0.3	0.3	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)