

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: P348589

Luminaire Tested: **ARCH-N-PA1-10-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2045 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 14
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

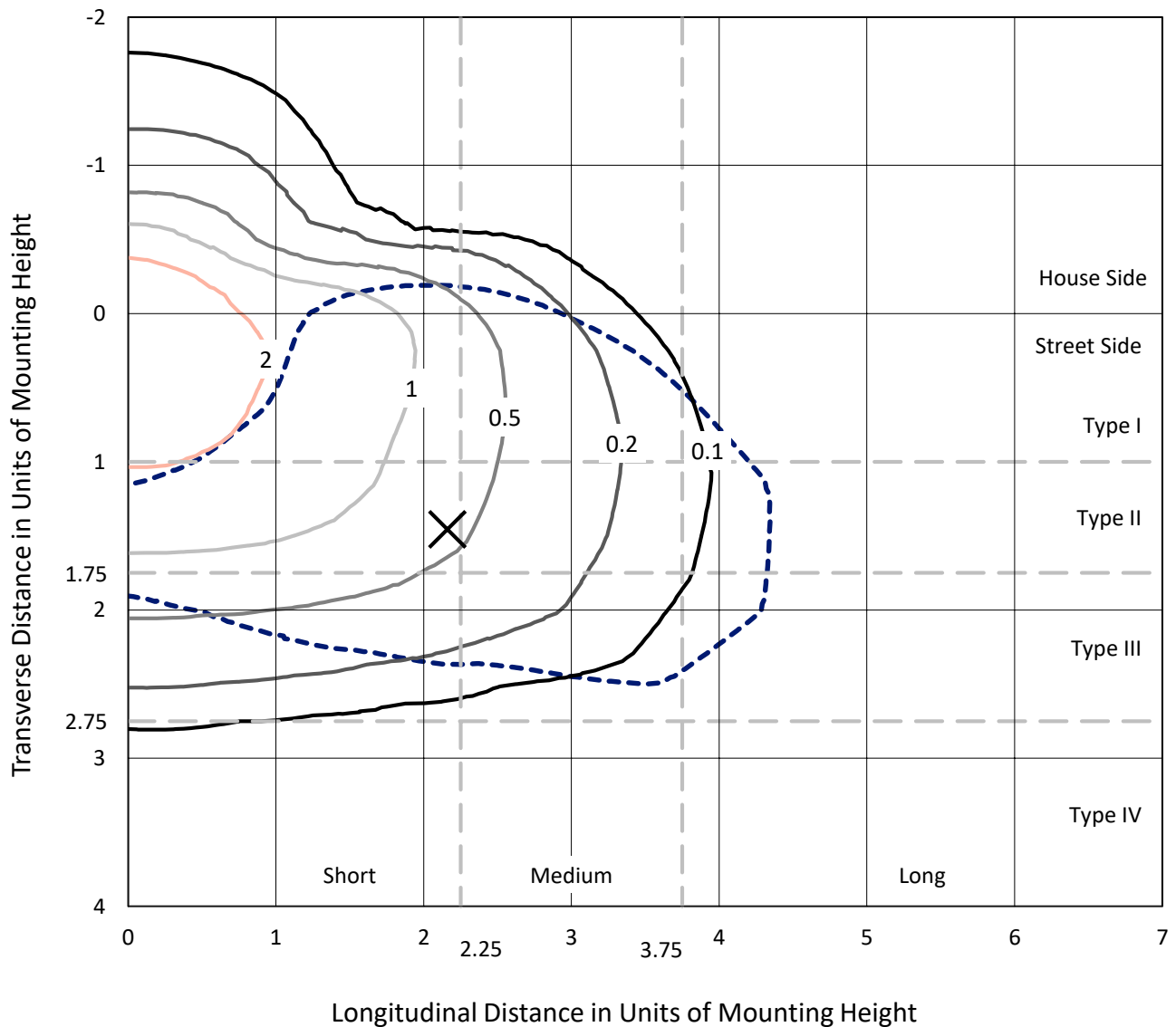


REPORT NUMBER: P348589

CATALOG NUMBER: ARCH-N-PA1-10-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

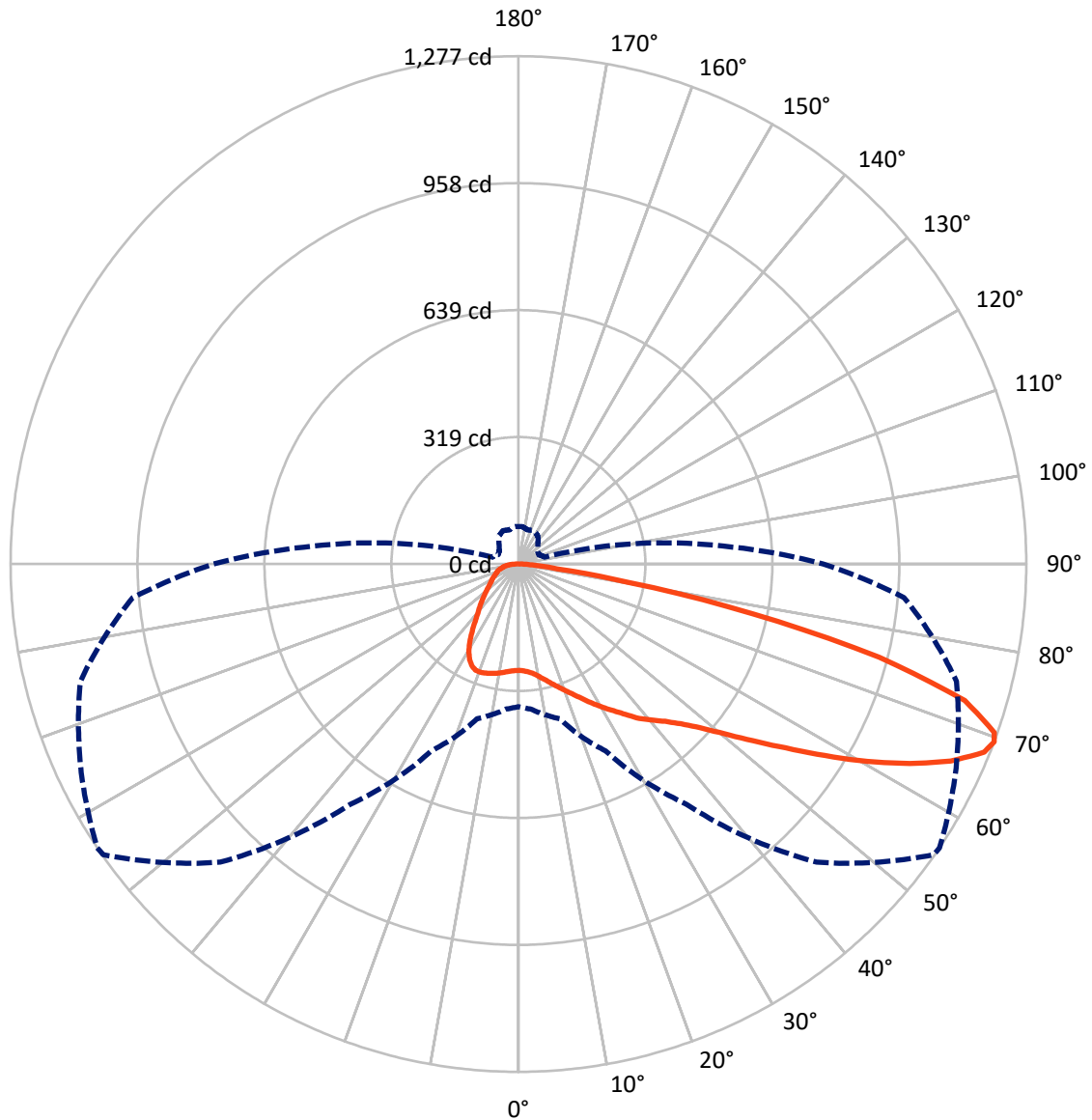


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P348589

CATALOG NUMBER: ARCH-N-PA1-10-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P348589

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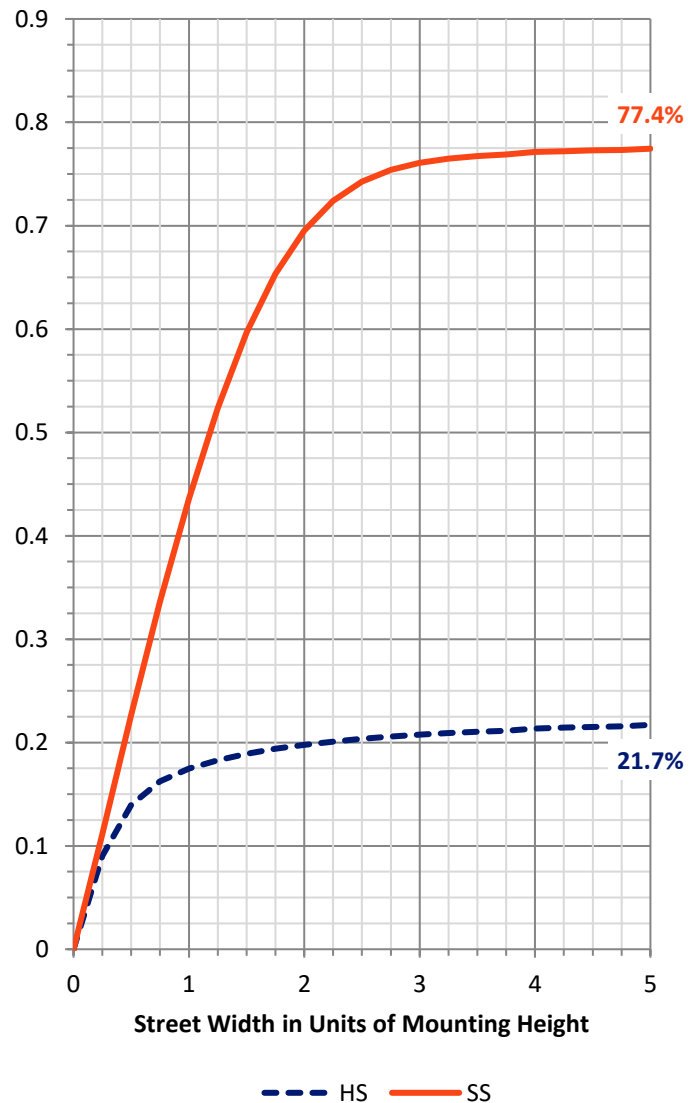
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	455.4	0.0	455.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	1589.6	0.0	1589.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	2045.0	0.0	2045.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	1.3
10°-20°	84.4	4.1
20°-30°	147.4	7.2
30°-40°	211.7	10.4
40°-50°	293.0	14.3
50°-60°	429.3	21.0
60°-70°	523.4	25.6
70°-80°	289.4	14.2
80°-90°	40.1	2.0
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°	2045.0	100.0
0°-180°	2045.0	100.0



REPORT NUMBER: P348589

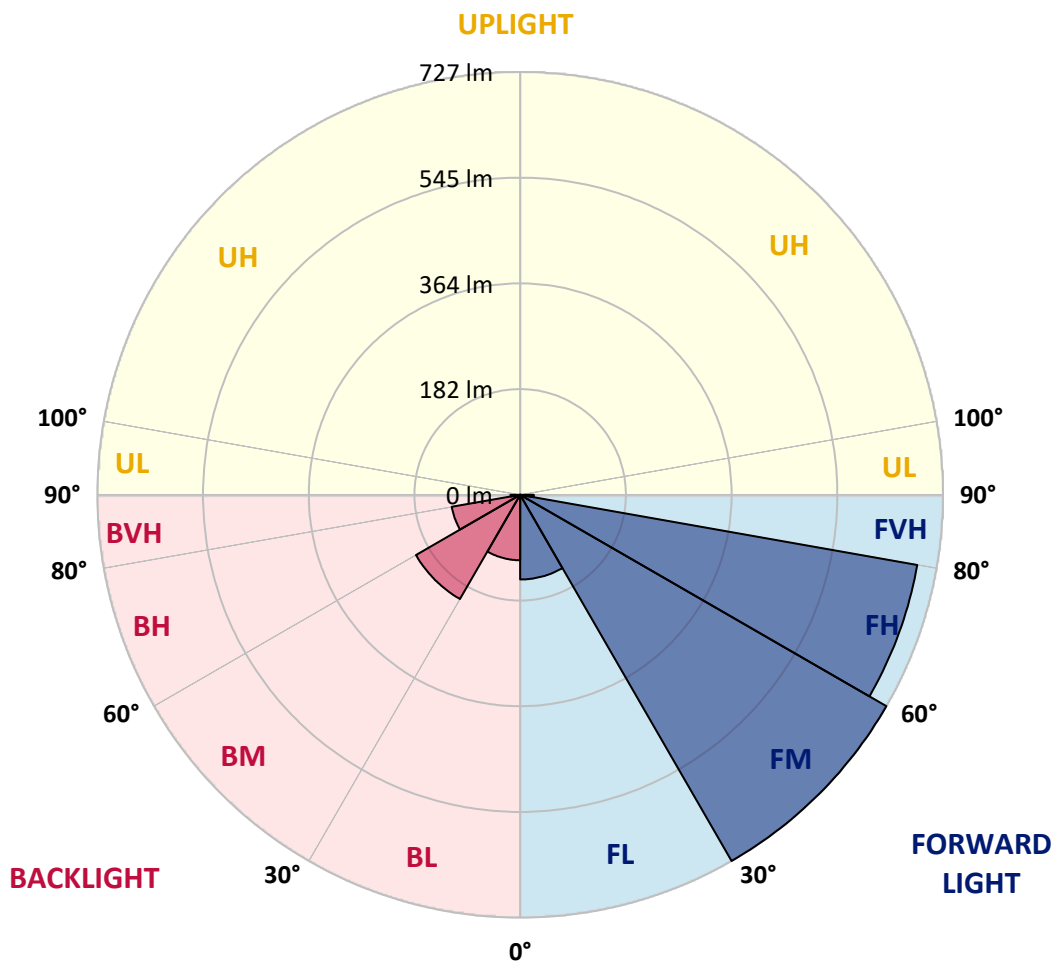
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.5	7.1			
FM	(30°-60°)	727.1	35.6			
FH	(60°-80°)	693.4	33.9			G1/1800
FVH	(80°-90°)	23.6	1.2			G1/100
BL	(0°-30°)	112.5	5.5	B1/500		
BM	(30°-60°)	207.0	10.1	B0/220		
BH	(60°-80°)	119.4	5.8	B1/500		G1/500
BVH	(80°-90°)	16.5	0.8			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 III Short





REPORT NUMBER: P348589

CATALOG NUMBER: ARCH-N-PA1-10-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4
2.5°	269.0	269.3	269.1	269.7	269.0	269.5	269.1	269.1	268.9	268.3	267.6
5°	273.3	273.8	273.5	274.0	273.3	273.4	272.8	272.8	272.1	270.8	269.4
7.5°	279.9	280.5	280.2	280.8	279.8	279.8	278.9	278.8	277.6	275.4	273.8
10°	287.8	288.6	288.3	289.2	288.3	288.6	287.8	287.8	286.1	283.0	280.9
12.5°	299.3	300.3	299.5	299.5	299.1	299.7	299.0	298.8	297.3	293.1	290.2
15°	314.6	315.8	314.1	314.0	312.0	311.8	311.8	311.6	310.6	305.5	300.9
17.5°	332.3	332.7	331.2	329.0	326.5	324.8	324.6	325.2	325.2	319.3	311.9
20°	349.6	350.3	349.1	346.6	343.4	341.0	339.3	340.4	340.3	333.3	322.8
22.5°	368.5	370.0	368.3	365.1	361.3	358.6	355.6	356.6	356.7	348.0	333.5
25°	393.0	391.6	390.6	386.0	380.6	377.8	375.1	376.1	375.8	363.9	344.6
27.5°	414.6	414.9	413.5	408.6	402.3	396.3	396.1	396.8	395.7	380.4	355.0
30°	439.7	439.9	437.9	433.5	426.7	418.9	417.1	418.1	415.9	396.0	366.0
32.5°	464.8	465.5	463.3	458.0	452.5	443.0	439.3	440.0	434.4	412.0	377.3
35°	486.7	487.6	486.9	483.4	477.4	469.3	464.9	464.5	457.5	431.6	392.3
37.5°	509.0	509.9	509.1	506.2	503.8	495.1	492.8	492.8	480.7	451.6	411.4
40°	532.0	533.4	532.5	528.4	526.3	522.4	516.8	515.5	502.4	475.6	442.6
42.5°	553.3	555.1	558.8	556.4	552.2	552.8	541.6	540.9	531.3	511.1	481.7
45°	583.6	586.3	592.5	590.6	589.8	586.7	573.4	572.7	569.1	558.9	530.2
47.5°	616.6	620.3	631.5	631.9	640.9	635.1	617.0	614.8	615.7	616.1	589.4
50°	647.1	651.1	669.5	678.1	699.6	700.8	671.9	669.9	673.2	682.9	658.5
52.5°	671.4	676.4	699.4	726.2	762.9	773.3	739.4	738.0	740.4	757.2	736.5
55°	689.2	694.7	719.7	768.5	827.1	845.5	817.2	815.8	817.3	838.7	821.4
57.5°	693.4	694.7	731.0	796.9	881.2	925.4	912.4	909.6	902.0	920.6	915.1
60°	673.8	679.2	721.7	806.9	923.2	1004.2	1011.9	1008.3	987.0	1002.2	997.8
62.5°	634.3	643.8	686.9	791.7	939.6	1068.6	1109.4	1105.2	1068.4	1078.3	1057.3
65°	569.6	573.7	619.0	739.2	918.7	1109.8	1196.4	1194.3	1148.0	1132.6	1068.3
67.5°	453.9	461.6	500.0	629.5	833.4	1105.0	1263.7	1263.5	1200.0	1152.8	1029.3
69°	358.6	366.5	403.2	518.6	737.5	1060.5	1275.0	1277.4	1214.7	1140.5	973.7
70°	285.9	295.1	320.3	436.8	652.3	1001.9	1265.6	1270.0	1211.9	1120.3	922.3
72.5°	121.7	129.1	147.0	225.2	397.5	748.2	1157.2	1174.0	1146.6	1025.3	762.3
75°	53.1	55.4	63.5	91.8	176.5	407.2	906.5	937.5	980.4	866.7	567.8
77.5°	38.9	39.9	44.3	53.9	79.2	153.8	583.0	601.0	707.0	630.7	348.3
80°	30.1	30.8	34.2	39.6	51.7	62.2	265.9	281.4	397.5	323.9	145.1
82.5°	24.0	24.4	26.8	29.2	35.7	37.7	88.3	97.9	146.7	89.5	38.4
85°	22.3	22.8	23.7	21.3	22.9	22.1	38.2	39.9	44.3	35.2	16.1
87.5°	10.1	11.9	23.5	16.6	12.2	9.7	15.6	16.3	18.4	18.5	7.1
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: P348589

CATALOG NUMBER: ARCH-N-PA1-10-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4
2.5°	268.0	267.8	268.1	267.3	268.3	268.3	267.9	268.1	268.8	268.7	268.8
5°	269.6	269.5	269.9	269.3	270.5	270.9	271.0	271.7	272.4	272.6	272.6
7.5°	273.7	273.7	273.9	273.1	273.9	273.8	273.5	274.1	274.9	275.0	274.9
10°	280.7	280.8	280.5	278.3	277.6	275.7	273.9	274.0	275.0	275.7	275.9
12.5°	289.6	289.3	287.8	283.8	280.8	276.9	275.1	275.0	276.0	276.7	276.9
15°	299.8	299.0	295.0	288.4	283.2	279.4	276.4	275.7	275.2	274.5	274.5
17.5°	309.3	307.6	300.9	291.8	286.3	281.2	275.5	270.9	267.8	265.9	265.4
20°	319.1	315.6	306.0	295.0	288.0	278.8	267.8	258.5	252.7	250.0	249.5
22.5°	327.9	322.4	310.7	298.3	286.7	270.5	253.2	239.7	231.6	228.0	228.3
25°	336.6	328.9	315.6	300.6	279.9	255.8	232.9	216.3	207.0	203.0	202.8
27.5°	344.2	335.4	321.0	298.7	267.3	234.9	208.9	192.7	184.9	181.5	180.9
30°	352.9	343.6	328.1	291.4	248.8	210.9	185.4	174.0	168.5	165.1	164.4
32.5°	363.6	354.9	333.9	278.3	225.2	185.7	167.1	159.1	154.1	150.3	149.6
35°	379.1	369.6	335.4	259.4	199.3	165.8	153.6	145.5	138.7	133.7	133.2
37.5°	398.5	388.2	332.0	234.9	174.1	152.9	142.4	132.4	123.6	116.5	115.4
40°	426.6	410.9	322.7	206.8	155.6	143.0	131.5	120.0	109.1	100.9	99.3
42.5°	460.2	437.6	308.3	178.7	142.0	132.9	120.7	106.4	96.0	90.2	89.3
45°	503.1	465.4	288.3	154.2	128.6	122.9	109.0	95.9	89.4	85.1	84.4
47.5°	552.0	496.5	267.4	134.3	117.3	113.4	99.6	91.2	86.0	82.6	82.0
50°	612.1	531.7	245.2	117.9	105.9	102.1	95.2	88.6	84.5	81.9	81.2
52.5°	679.8	571.3	229.2	105.0	96.4	93.7	92.9	87.1	83.8	81.9	81.2
55°	752.8	611.7	212.0	94.2	88.3	89.0	91.3	87.3	85.0	82.6	81.7
57.5°	825.9	653.4	192.7	85.0	81.8	85.6	90.2	87.6	85.7	83.3	82.5
60°	883.6	679.8	162.9	77.4	76.6	81.8	87.7	85.5	83.0	83.1	82.9
62.5°	910.6	678.4	130.0	70.5	71.5	76.6	83.6	82.1	80.1	82.8	83.1
65°	895.5	644.6	101.2	64.3	66.0	71.3	79.4	80.5	81.2	86.5	87.2
67.5°	831.9	578.8	78.4	58.9	61.0	67.6	79.8	87.7	88.6	94.2	94.1
69°	766.2	517.1	68.1	56.1	58.5	68.5	85.3	92.3	88.8	94.8	93.9
70°	711.1	468.3	62.6	54.2	57.4	70.2	89.0	92.2	87.8	92.9	91.4
72.5°	547.7	336.9	53.1	50.7	53.6	67.1	90.0	90.2	85.3	86.3	83.9
75°	375.6	212.9	46.4	45.9	47.8	60.5	86.7	86.2	78.9	77.5	75.5
77.5°	207.1	108.1	39.4	41.3	42.6	53.6	78.8	78.1	72.1	69.1	68.4
80°	79.9	47.3	33.3	36.7	37.5	46.4	69.0	68.4	63.4	59.6	58.5
82.5°	30.2	24.8	27.5	31.8	31.5	38.3	58.5	58.1	53.3	47.7	46.0
85°	13.9	14.9	21.8	26.2	24.2	28.4	46.8	47.4	41.5	34.9	34.9
87.5°	5.9	8.3	15.4	19.8	16.3	19.2	34.3	32.8	30.1	20.9	19.6
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)