

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: P348675

Luminaire Tested: **ARCH-N-PA1-20-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-20-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2507 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - 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

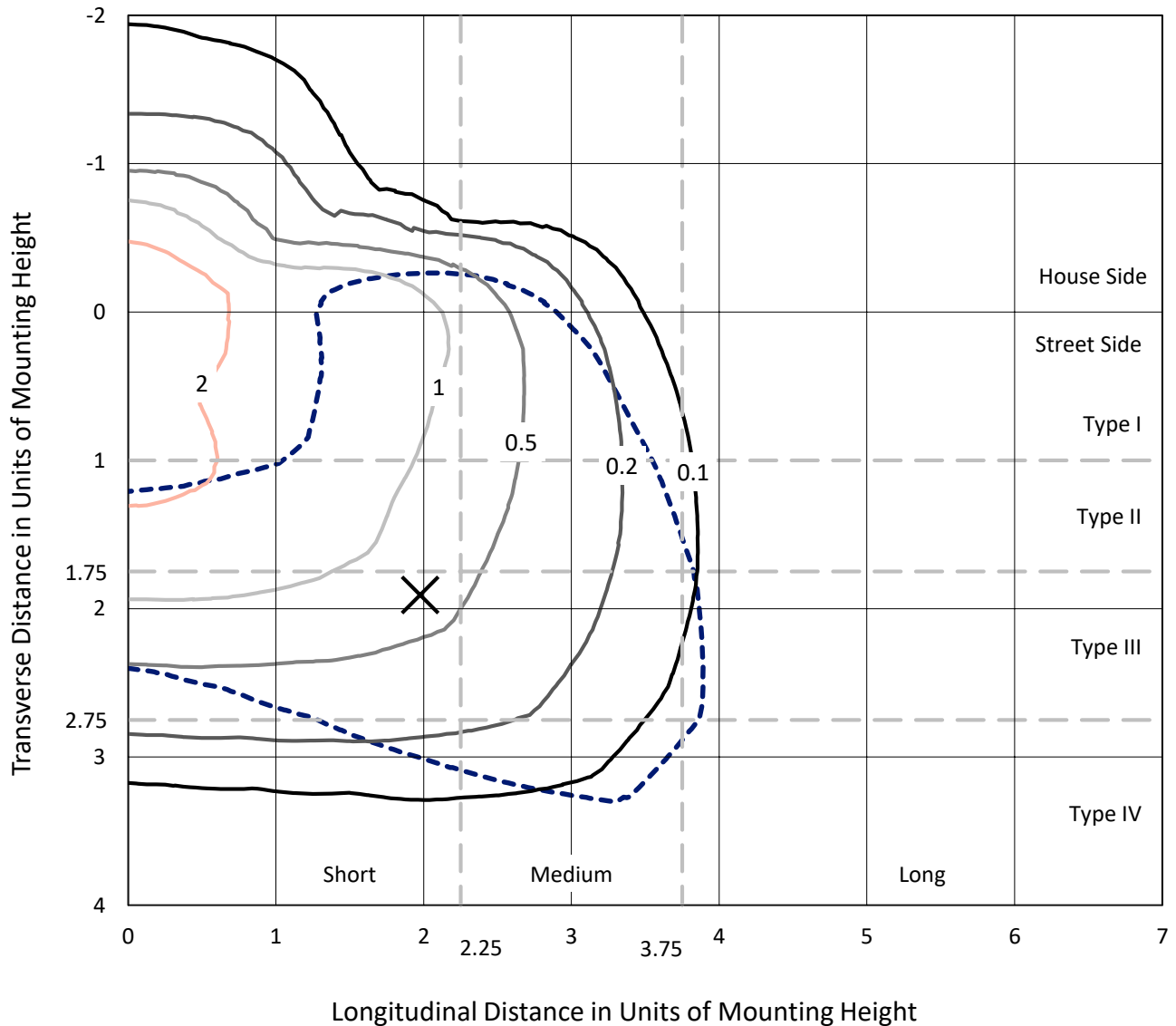


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Iso-Footcandle Lines of Horizontal Illumination

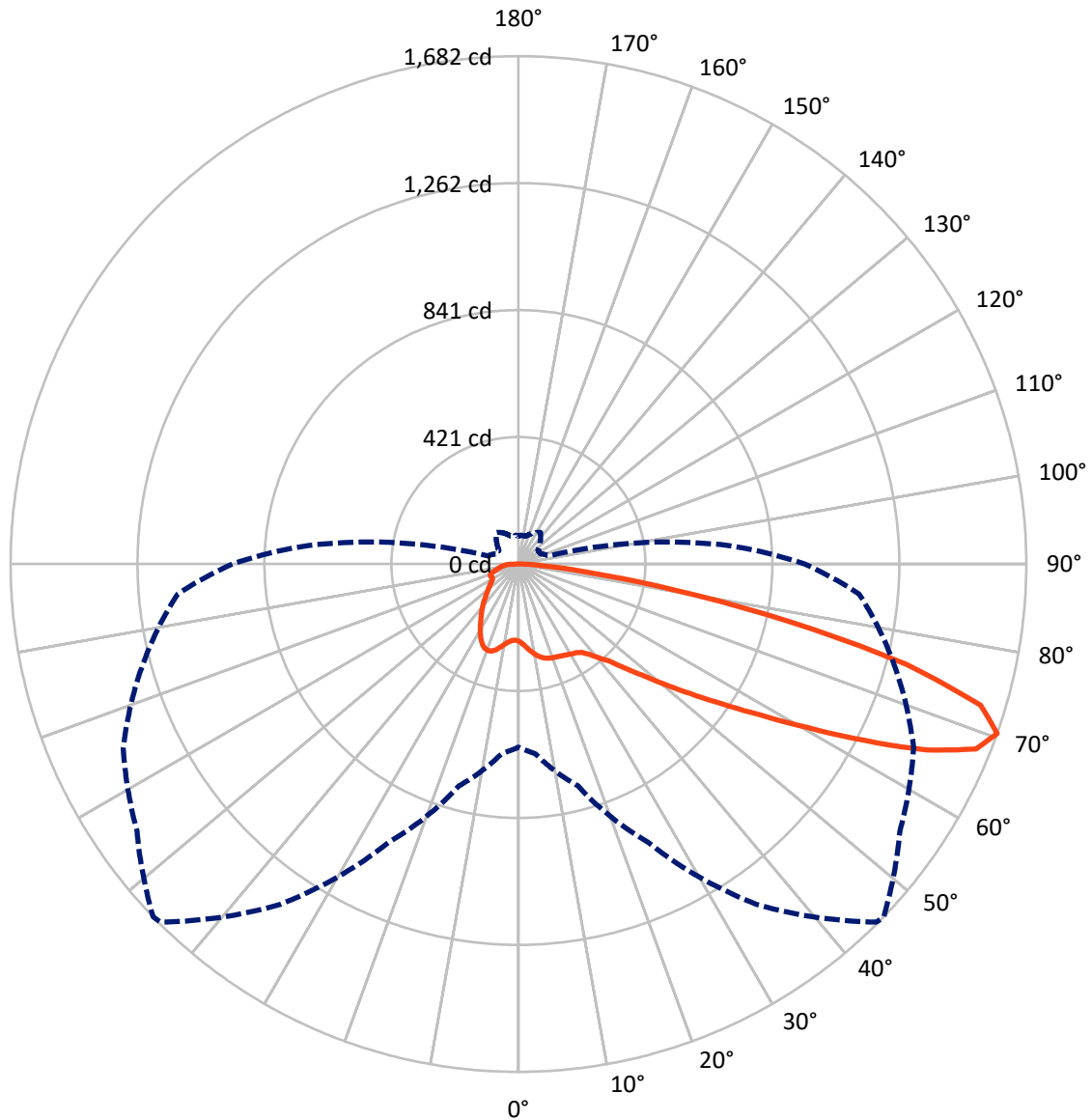
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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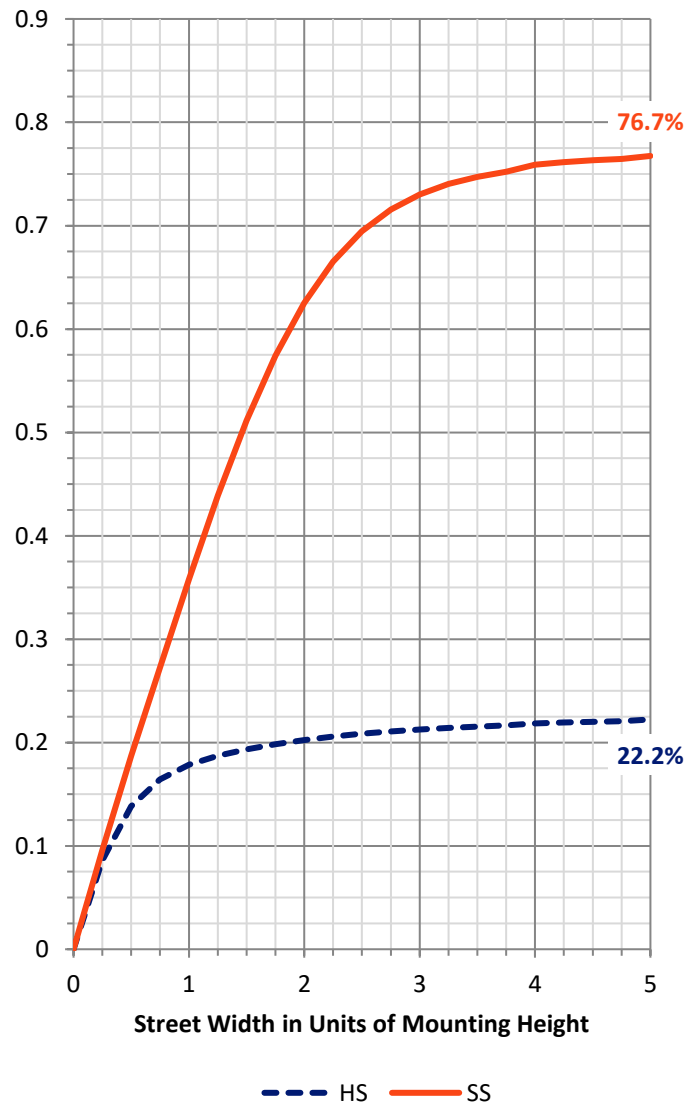
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	574.6	0.0	574.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	1932.4	0.0	1932.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	2507.0	0.0	2507.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	1.0
10°-20°	86.7	3.5
20°-30°	144.6	5.8
30°-40°	205.3	8.2
40°-50°	301.9	12.0
50°-60°	511.3	20.4
60°-70°	725.8	29.0
70°-80°	440.9	17.6
80°-90°	64.3	2.6
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°	2507.0	100.0
0°-180°	2507.0	100.0



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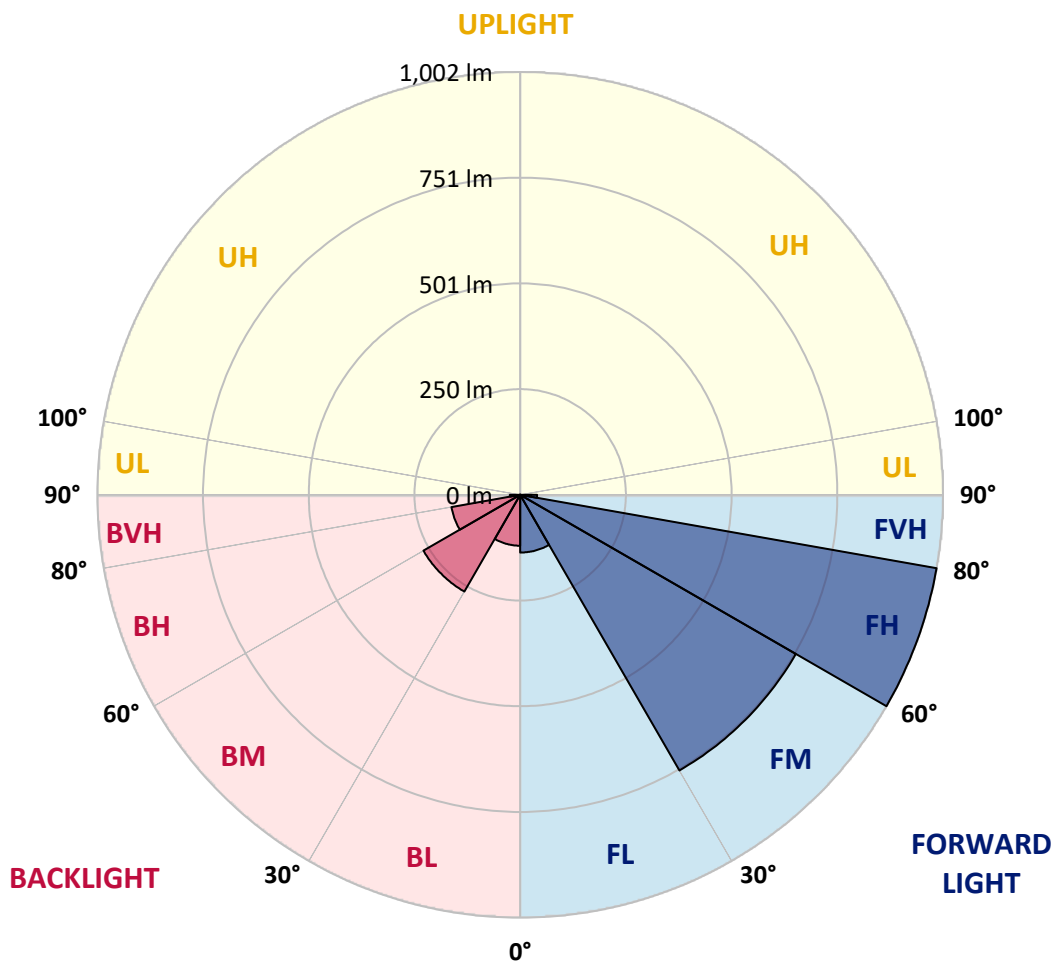
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	136.8	5.5			
FM	(30°-60°)	754.0	30.1			
FH	(60°-80°)	1001.5	39.9			G1/1800
FVH	(80°-90°)	40.1	1.6			G1/100
BL	(0°-30°)	120.6	4.8	B1/500		
BM	(30°-60°)	264.5	10.6	B1/1000		
BH	(60°-80°)	165.2	6.6	B1/500		G1/500
BVH	(80°-90°)	24.3	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	255.4	255.4	255.4	255.4	255.4	255.4	255.4	255.4	255.4	255.4	255.4
2.5°	268.2	268.4	268.7	267.9	265.5	264.8	264.5	262.0	260.4	258.0	255.9
5°	289.6	289.8	289.3	286.9	281.6	277.6	277.3	271.6	266.5	261.0	256.9
7.5°	312.0	312.3	310.7	306.1	298.7	291.8	291.4	283.6	275.8	267.5	261.3
10°	331.9	330.8	328.2	321.8	313.0	304.6	304.2	296.2	287.2	277.1	268.9
12.5°	345.1	344.2	340.8	333.1	323.4	315.6	315.0	307.5	298.7	287.8	277.9
15°	352.4	353.0	348.3	339.6	330.1	323.6	323.0	317.7	309.9	298.8	287.5
17.5°	353.3	353.8	349.4	340.7	333.0	328.5	328.3	324.7	319.1	308.4	296.6
20°	347.8	348.2	344.5	337.3	332.3	330.9	330.8	329.3	325.1	315.6	304.1
22.5°	339.8	340.1	337.4	332.3	330.6	332.7	333.3	332.7	329.7	320.9	310.1
25°	337.9	337.7	334.9	329.7	331.2	335.7	336.5	336.7	334.7	327.0	317.6
27.5°	347.4	346.8	341.6	333.1	334.1	339.6	340.6	343.1	341.8	335.0	326.2
30°	374.9	373.9	363.2	346.2	341.6	344.4	345.7	349.6	349.9	344.2	337.6
32.5°	421.4	420.1	400.9	370.6	354.2	349.3	350.5	356.4	359.6	355.2	348.1
35°	480.2	478.7	453.5	412.0	375.3	358.6	359.5	364.2	370.6	364.4	354.9
37.5°	541.5	537.9	513.7	460.7	408.8	378.6	378.6	379.2	382.2	369.4	363.0
40°	602.4	598.9	576.9	518.0	452.2	410.1	408.1	394.8	392.4	381.4	379.2
42.5°	659.0	658.0	645.0	582.8	503.2	441.1	438.3	415.8	416.3	409.4	409.5
45°	719.2	719.2	708.7	648.2	562.6	490.8	488.1	454.9	460.0	456.9	464.5
47.5°	768.4	769.9	768.5	716.3	631.6	554.1	549.1	509.1	523.5	534.4	556.6
50°	818.6	821.0	821.2	791.0	715.1	629.2	623.6	581.1	613.3	644.5	688.2
52.5°	891.4	896.8	875.3	865.6	817.4	718.5	712.9	673.7	727.4	771.2	846.5
55°	958.9	954.2	938.9	944.9	926.9	820.0	815.8	781.4	854.5	911.5	1009.2
57.5°	995.5	995.1	1010.6	1036.3	1044.9	945.3	941.8	908.3	997.9	1040.7	1162.0
60°	1038.4	1039.0	1077.3	1135.7	1171.0	1101.3	1099.7	1074.3	1137.1	1161.3	1281.9
62.5°	1044.4	1055.2	1121.1	1221.6	1289.1	1283.5	1286.9	1223.9	1261.7	1257.6	1371.4
65°	975.3	989.6	1108.8	1247.6	1406.5	1482.8	1486.0	1374.3	1359.9	1339.9	1403.4
67.5°	833.8	854.9	984.4	1191.1	1445.1	1630.1	1634.6	1490.9	1441.5	1367.8	1326.3
70°	606.7	630.2	760.6	1017.3	1376.2	1677.2	1682.3	1542.4	1444.5	1288.4	1132.2
72.5°	366.5	384.9	492.4	748.9	1161.5	1591.4	1600.4	1477.1	1318.9	1091.3	836.1
75°	161.0	173.0	238.1	431.6	831.5	1316.7	1327.9	1264.3	1071.6	793.1	494.2
77.5°	68.6	72.0	97.6	187.5	470.1	899.7	915.2	923.8	727.0	431.6	208.8
80°	42.7	44.1	55.3	84.9	220.0	505.3	522.0	543.5	361.0	158.6	72.9
82.5°	26.0	27.5	36.7	51.3	114.5	229.1	237.1	252.2	140.1	68.6	37.8
85°	15.6	16.7	22.5	32.4	65.2	90.1	90.0	99.5	66.0	44.1	19.9
87.5°	7.5	8.3	12.0	16.8	32.9	33.8	31.7	35.9	40.1	28.9	10.0
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°	255.4	255.4	255.4	255.4	255.4	255.4	255.4	255.4	255.4	255.4	255.4
2.5°	255.2	254.9	253.8	252.9	252.8	252.2	251.8	252.1	252.4	252.5	252.5
5°	255.2	254.2	252.8	252.2	252.9	254.0	255.2	257.0	258.0	258.8	259.3
7.5°	259.3	257.5	255.8	255.5	257.0	259.8	262.7	266.3	268.8	270.5	270.9
10°	266.1	263.9	262.3	262.6	265.4	269.3	273.4	278.1	281.8	284.2	284.3
12.5°	274.0	271.9	270.3	271.8	276.3	281.2	285.4	289.5	292.9	295.2	295.2
15°	283.1	281.6	279.8	283.1	289.3	293.6	295.4	297.4	299.3	301.0	300.6
17.5°	291.9	290.4	289.5	293.4	299.9	301.8	300.6	299.2	299.2	300.1	300.3
20°	299.4	298.1	298.7	302.6	305.9	303.9	299.4	294.8	292.9	293.4	293.9
22.5°	306.0	305.4	307.2	309.0	306.6	299.4	291.2	284.9	282.6	282.4	282.6
25°	313.8	313.7	315.9	312.6	302.0	288.7	277.6	271.5	270.3	271.3	273.0
27.5°	323.4	324.3	325.4	313.5	292.6	272.5	261.2	257.0	258.3	260.8	262.4
30°	335.6	338.2	335.8	311.4	279.0	254.0	243.2	242.0	245.5	249.1	250.8
32.5°	347.6	351.6	345.8	305.8	261.5	234.3	226.0	225.6	229.9	233.4	235.8
35°	357.2	365.1	353.2	294.7	241.3	216.2	210.1	207.8	209.3	213.4	216.1
37.5°	369.7	383.0	358.4	277.8	219.3	201.3	194.2	188.8	187.5	189.1	190.5
40°	392.6	410.2	360.8	254.2	197.8	186.3	179.1	171.3	165.9	162.0	162.1
42.5°	430.0	445.6	359.2	225.6	178.0	171.8	163.6	154.6	145.9	136.9	136.2
45°	490.8	498.3	354.6	195.2	160.6	156.5	148.9	139.8	128.2	118.1	117.1
47.5°	588.0	571.2	347.4	168.7	145.3	143.5	136.5	126.1	113.8	105.6	104.9
50°	720.5	676.5	343.9	147.6	131.7	132.2	126.5	115.5	103.8	97.8	97.1
52.5°	879.1	799.1	350.6	131.3	120.8	122.6	118.3	108.0	98.2	93.5	92.8
55°	1043.5	926.1	357.9	119.4	110.5	114.0	112.6	104.1	95.2	90.9	90.3
57.5°	1184.3	1020.9	343.4	109.8	101.3	106.8	108.1	101.6	93.7	89.7	89.1
60°	1273.0	1059.1	305.1	100.8	94.0	101.1	105.5	100.9	94.3	93.9	93.4
62.5°	1315.0	1055.7	247.7	93.7	89.5	98.6	107.4	104.8	101.2	104.2	104.5
65°	1296.1	1005.3	184.5	89.0	86.2	99.5	113.1	112.0	103.1	106.2	106.6
67.5°	1171.9	884.9	136.6	84.9	82.6	102.2	123.4	114.5	99.3	101.5	100.1
70°	947.2	701.6	105.4	80.2	78.9	101.8	128.0	113.0	95.1	95.6	91.9
72.5°	653.2	478.4	85.7	75.9	73.6	92.8	124.7	109.4	91.5	87.6	82.7
75°	355.2	256.8	72.8	71.5	64.3	81.5	118.7	106.8	88.4	83.1	80.4
77.5°	139.8	106.6	63.2	65.4	56.2	72.0	112.0	101.9	84.0	77.1	75.8
80°	57.1	54.4	52.4	56.5	48.3	63.0	104.0	96.2	78.8	71.6	68.8
82.5°	32.3	33.8	40.8	44.6	39.2	58.0	100.1	91.5	72.5	64.1	60.8
85°	16.6	19.8	28.4	32.0	28.8	49.3	92.2	80.1	58.2	49.1	49.3
87.5°	8.0	11.1	17.9	20.1	18.7	35.7	68.9	58.1	45.3	35.9	34.7
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)