

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: P349012

Luminaire Tested: **ARCH-N-PA1-30-827-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P349012
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-PA1-30-827-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2309 lumens
Efficiency: N/A
Efficacy: 74.5 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

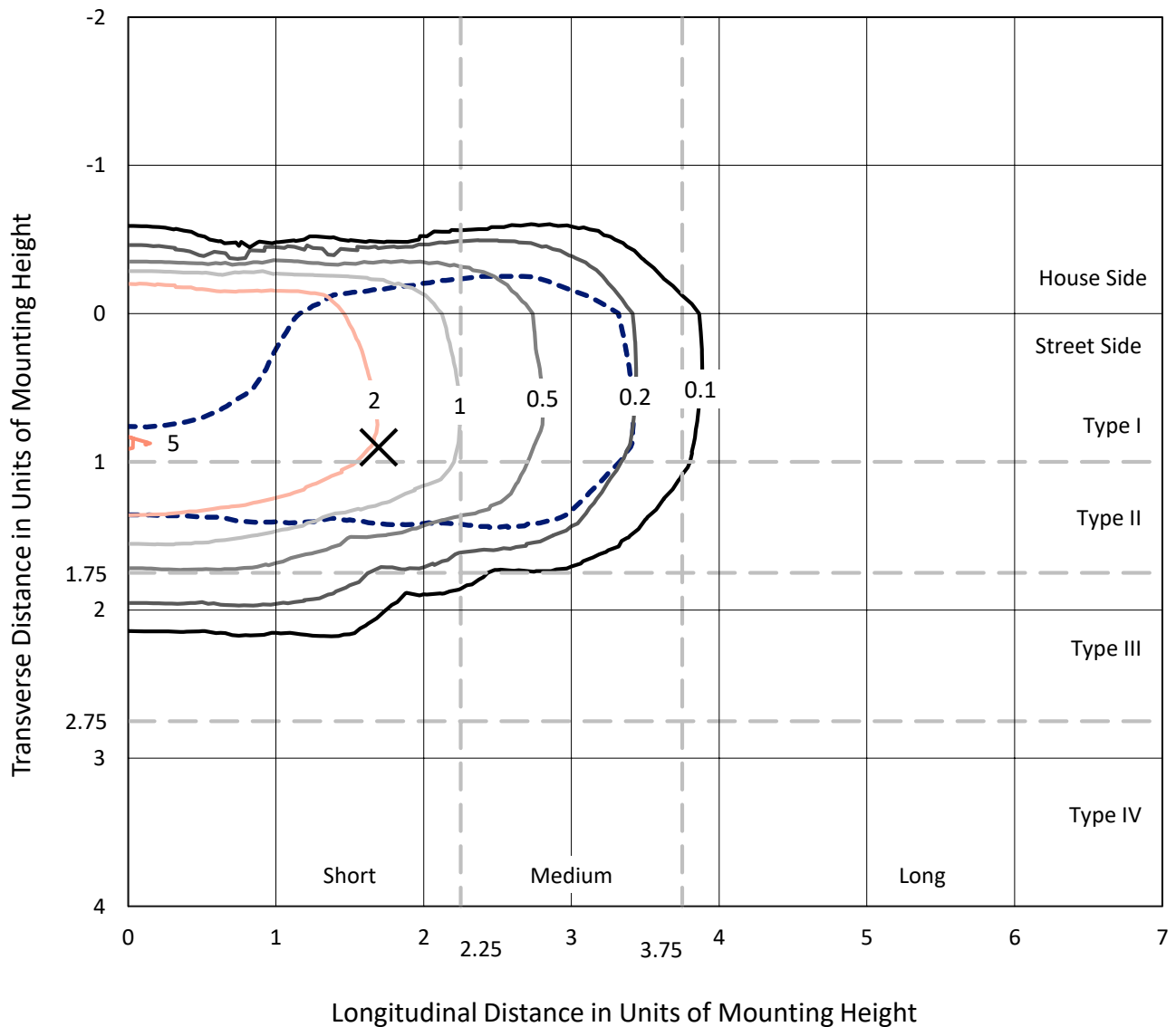
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

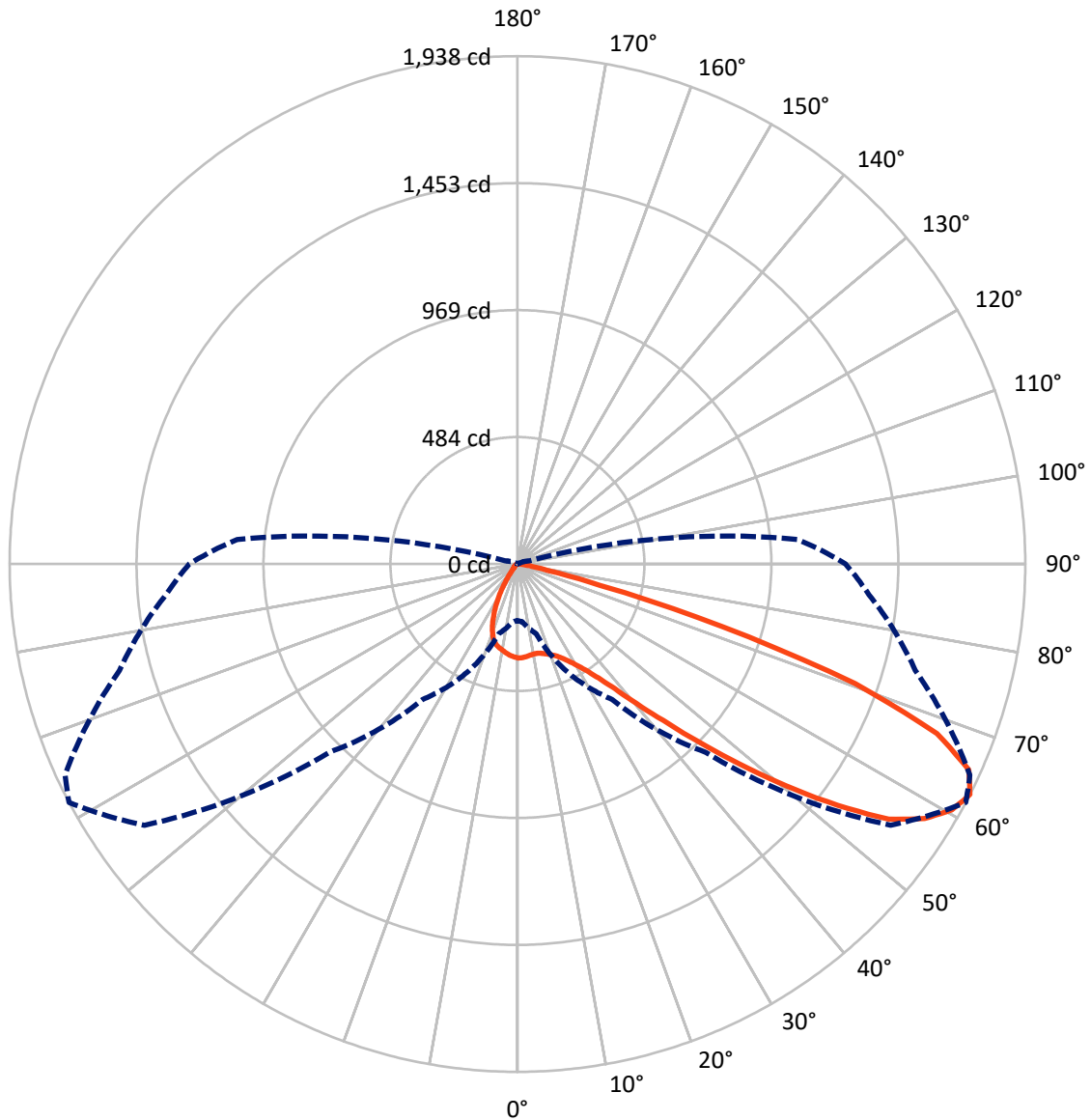


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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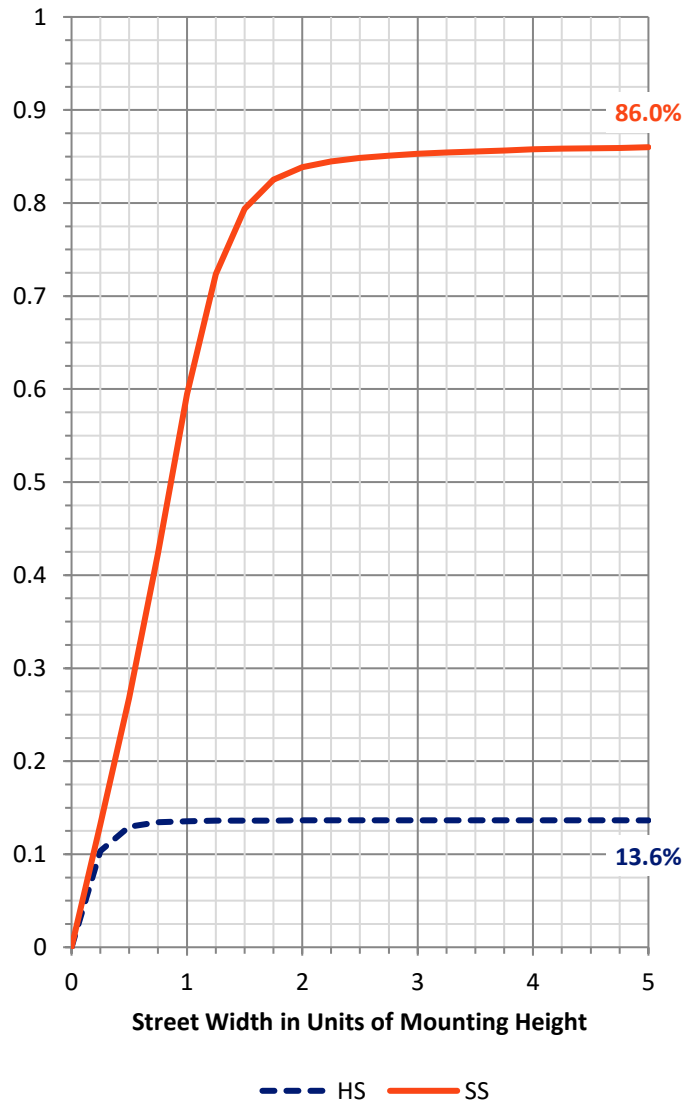
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	318.8	0.0	318.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	1990.2	0.0	1990.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	2309.0	0.0	2309.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	1.4
10°-20°	82.0	3.6
20°-30°	122.5	5.3
30°-40°	233.3	10.1
40°-50°	486.5	21.1
50°-60°	646.3	28.0
60°-70°	503.9	21.8
70°-80°	190.4	8.2
80°-90°	11.4	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°	2309.0	100.0
0°-180°	2309.0	100.0



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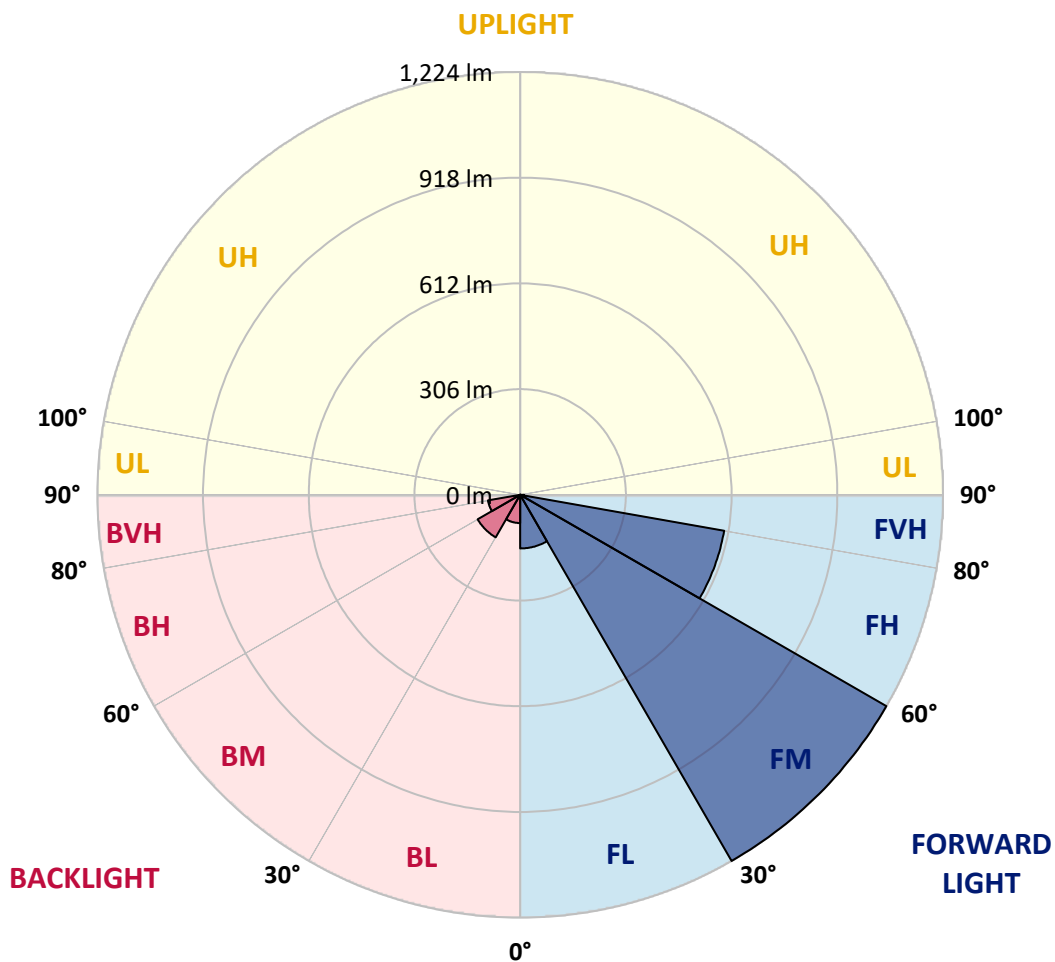
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.4	6.7			
FM (30°-60°)	1224.2	53.0			
FH (60°-80°)	599.7	26.0			G0/660
FVH (80°-90°)	10.9	0.5			G1/100
BL (0°-30°)	81.8	3.5	B0/110		
BM (30°-60°)	141.9	6.1	B0/220		
BH (60°-80°)	94.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7
2.5°	357.5	356.9	358.4	358.4	358.1	358.7	358.1	357.8	357.5	356.9	356.3
5°	348.2	348.2	350.3	351.2	352.1	353.9	354.5	355.1	354.8	355.4	355.7
7.5°	337.3	337.9	340.3	341.5	343.0	346.7	348.8	351.2	351.5	353.6	354.8
10°	328.2	328.9	331.3	332.8	334.9	339.7	344.2	348.5	349.1	353.0	353.9
12.5°	322.2	322.8	325.2	327.3	331.9	337.9	344.2	349.1	350.6	355.4	355.4
15°	319.8	320.4	323.4	327.0	333.1	340.9	348.8	353.9	356.9	360.8	359.0
17.5°	318.9	320.1	325.2	330.7	337.3	345.7	355.4	360.8	363.9	368.1	364.2
20°	321.6	323.1	329.8	337.3	344.2	353.0	363.5	369.6	372.6	375.3	367.8
22.5°	331.3	333.7	339.4	347.9	353.3	363.9	374.4	381.3	384.7	384.4	374.4
25°	354.5	357.5	360.2	364.8	367.2	379.8	391.0	397.9	400.4	399.5	388.0
27.5°	409.4	413.3	403.7	393.7	388.3	400.1	412.4	419.7	421.8	420.0	402.5
30°	502.0	502.3	480.3	448.9	425.7	424.5	439.6	449.2	449.2	445.6	423.0
32.5°	636.9	627.2	599.5	544.0	491.5	464.0	475.5	484.8	484.8	480.3	454.4
35°	806.4	799.2	753.3	686.7	593.1	527.4	525.0	534.0	534.3	533.1	503.5
37.5°	979.0	961.2	922.9	843.0	733.1	624.8	595.9	602.2	606.7	606.1	569.3
40°	1139.5	1121.7	1089.4	1012.5	905.1	768.4	699.0	699.0	699.3	696.3	652.0
42.5°	1265.6	1257.5	1233.4	1179.9	1097.0	994.4	838.1	815.2	810.4	807.3	749.1
45°	1347.4	1338.9	1326.0	1314.8	1288.0	1251.2	1024.9	964.8	957.0	927.4	856.5
47.5°	1351.9	1338.9	1347.7	1389.9	1450.6	1469.6	1255.4	1139.2	1118.4	1065.0	964.2
50°	1251.2	1252.4	1286.4	1389.0	1552.9	1661.2	1499.8	1331.1	1298.2	1191.4	1059.3
52.5°	1065.9	1078.0	1130.8	1288.6	1557.7	1783.7	1712.5	1529.0	1463.8	1304.9	1126.2
55°	834.5	845.4	931.7	1102.4	1440.3	1801.2	1867.2	1718.5	1632.2	1383.9	1186.3
57.5°	590.1	610.6	717.7	874.6	1216.5	1667.5	1909.5	1831.9	1748.4	1460.8	1242.7
60°	358.7	369.0	480.3	662.8	916.9	1387.8	1860.0	1904.3	1836.8	1527.5	1295.5
62.5°	215.7	221.7	275.2	456.5	630.9	1016.1	1737.5	1937.5	1904.3	1571.9	1346.2
65°	127.6	131.5	156.6	275.8	420.3	623.3	1472.9	1892.0	1918.8	1610.2	1375.8
67.5°	92.0	93.2	102.3	148.4	282.1	334.0	1024.3	1726.0	1826.5	1622.8	1358.3
70°	79.3	80.9	89.6	104.4	199.7	197.0	533.1	1366.1	1548.3	1556.8	1284.3
72.5°	60.0	62.8	77.2	98.1	143.3	140.0	200.9	814.6	1051.1	1278.0	1107.2
75°	40.7	42.2	57.3	83.3	111.9	104.4	105.3	327.0	514.1	801.3	760.9
77.5°	25.6	26.9	35.0	59.7	95.9	73.6	74.5	116.2	185.5	339.7	326.1
80°	17.5	18.1	21.1	38.6	64.9	64.0	48.0	60.6	69.1	104.7	70.3
82.5°	10.6	10.6	13.9	22.9	39.2	50.7	30.2	33.5	36.8	38.9	16.0
85°	3.6	3.9	8.4	14.2	24.1	25.3	17.2	19.9	20.8	22.6	7.5
87.5°	1.5	1.2	4.5	7.8	10.3	11.8	10.0	9.1	10.0	13.3	3.3
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°	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7	358.7
2.5°	356.6	355.4	355.4	355.1	353.3	352.4	351.5	349.1	350.6	348.8	347.6
5°	354.8	353.9	352.4	350.9	346.7	343.0	341.5	338.5	338.2	335.8	334.6
7.5°	354.5	352.4	350.0	344.8	338.5	332.8	327.6	322.5	320.4	317.7	316.2
10°	353.0	350.3	345.7	337.6	328.2	319.2	307.7	293.6	283.0	277.0	276.1
12.5°	353.3	350.3	343.3	331.3	318.9	299.0	268.2	235.9	209.4	198.2	196.4
15°	355.7	352.4	341.8	325.5	304.4	260.7	204.3	154.8	120.4	108.0	105.3
17.5°	358.7	353.0	338.5	317.4	276.7	202.1	128.5	81.2	61.8	54.9	53.7
20°	360.5	352.7	333.1	305.0	234.4	135.2	70.0	47.7	41.9	40.4	39.8
22.5°	365.1	353.6	328.6	285.7	181.3	81.5	44.3	37.1	33.8	32.0	31.7
25°	374.4	359.6	328.9	260.7	127.0	49.2	35.9	30.2	27.2	25.3	24.7
27.5°	388.0	370.5	334.6	229.6	78.4	37.1	29.9	24.4	21.1	19.6	19.3
30°	405.2	383.8	341.2	189.2	48.9	31.1	24.1	19.0	16.6	15.7	15.4
32.5°	432.3	406.7	347.0	141.5	33.8	25.6	19.0	15.1	13.6	12.7	12.7
35°	477.3	446.2	356.3	94.7	26.9	20.5	15.4	12.4	11.2	10.6	10.6
37.5°	540.6	502.6	360.8	58.8	22.0	16.0	12.4	10.3	9.4	8.7	8.7
40°	617.9	571.1	354.5	36.5	18.4	13.0	10.3	8.7	7.8	7.5	7.5
42.5°	706.9	649.9	334.6	25.9	15.4	10.6	8.7	7.5	6.9	6.6	6.6
45°	806.4	736.1	298.7	21.7	13.0	9.1	7.5	6.3	6.0	5.7	5.7
47.5°	905.7	823.6	252.2	18.7	10.9	7.5	6.3	5.4	5.1	4.8	4.8
50°	992.3	900.3	203.0	16.3	9.1	6.6	5.4	4.5	4.2	3.9	3.9
52.5°	1041.8	945.8	157.2	13.6	7.8	5.7	4.2	3.6	3.3	3.0	3.0
55°	1095.2	983.8	117.4	11.5	6.3	4.8	3.3	2.7	2.4	2.1	2.1
57.5°	1145.0	1017.9	87.2	9.4	5.4	3.6	2.7	2.1	1.8	1.5	1.5
60°	1193.2	1046.9	64.6	7.5	4.5	3.0	2.1	1.5	1.2	0.9	0.9
62.5°	1252.1	1073.4	47.4	6.0	3.9	2.1	1.5	0.9	0.6	0.3	0.3
65°	1295.8	1087.0	35.6	4.5	3.3	1.5	0.9	0.6	0.0	0.0	0.0
67.5°	1295.5	1060.8	25.9	3.3	2.4	1.2	0.6	0.0	0.0	0.0	0.0
70°	1234.9	981.1	18.1	2.7	1.8	0.9	0.3	0.0	0.0	0.0	0.0
72.5°	1059.0	776.0	11.8	1.8	1.5	0.6	0.3	0.0	0.0	0.0	0.0
75°	714.7	394.0	6.9	1.5	1.2	0.6	0.3	0.0	0.0	0.0	0.0
77.5°	305.6	154.8	3.6	0.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0
80°	64.0	37.4	1.5	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.9	5.4	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	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)