

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: P348977

Luminaire Tested: **ARCH-N-PA1-30-727-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348977
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-PA1-30-727-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2627 lumens
Efficiency: N/A
Efficacy: 84.7 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

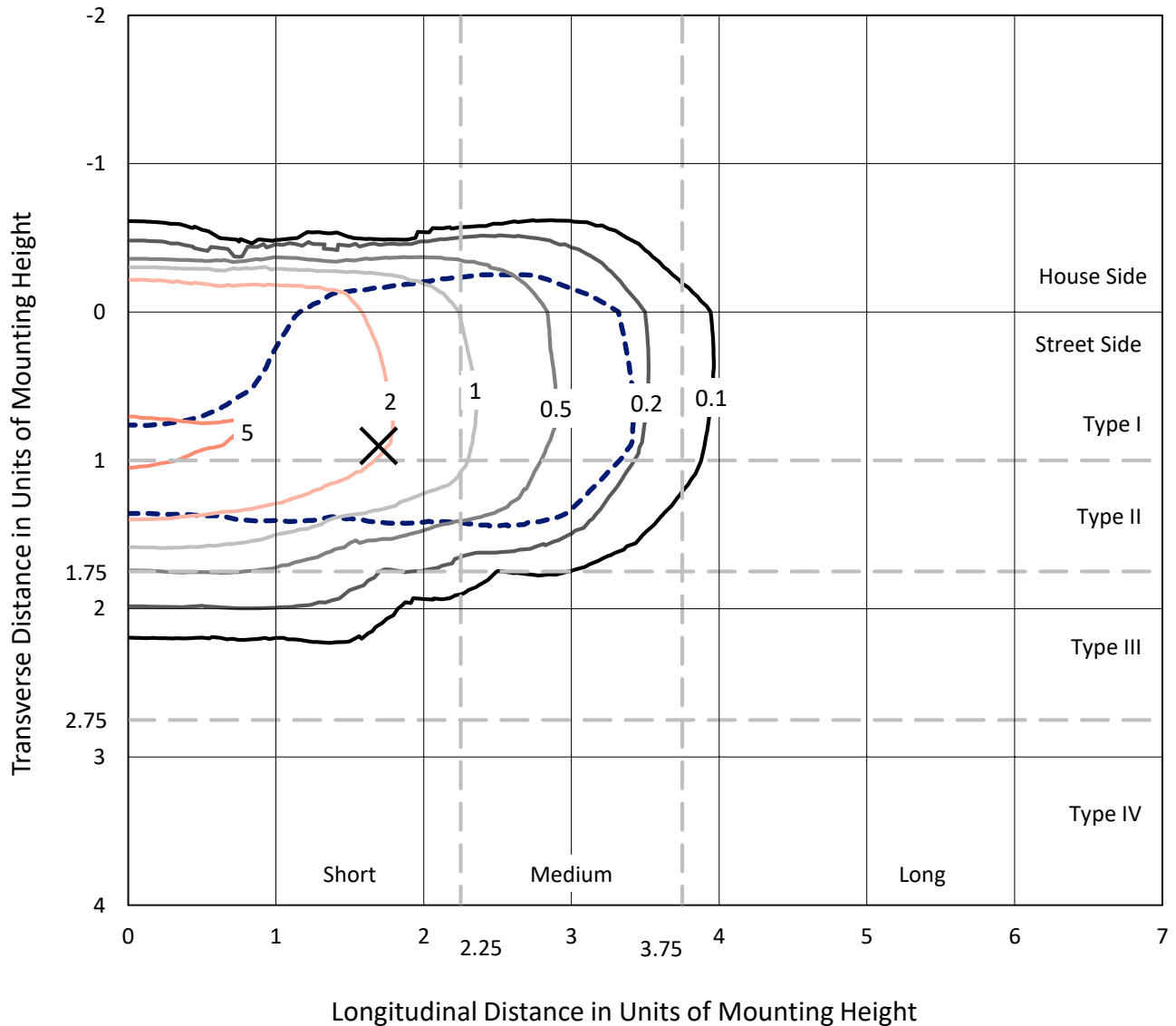
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

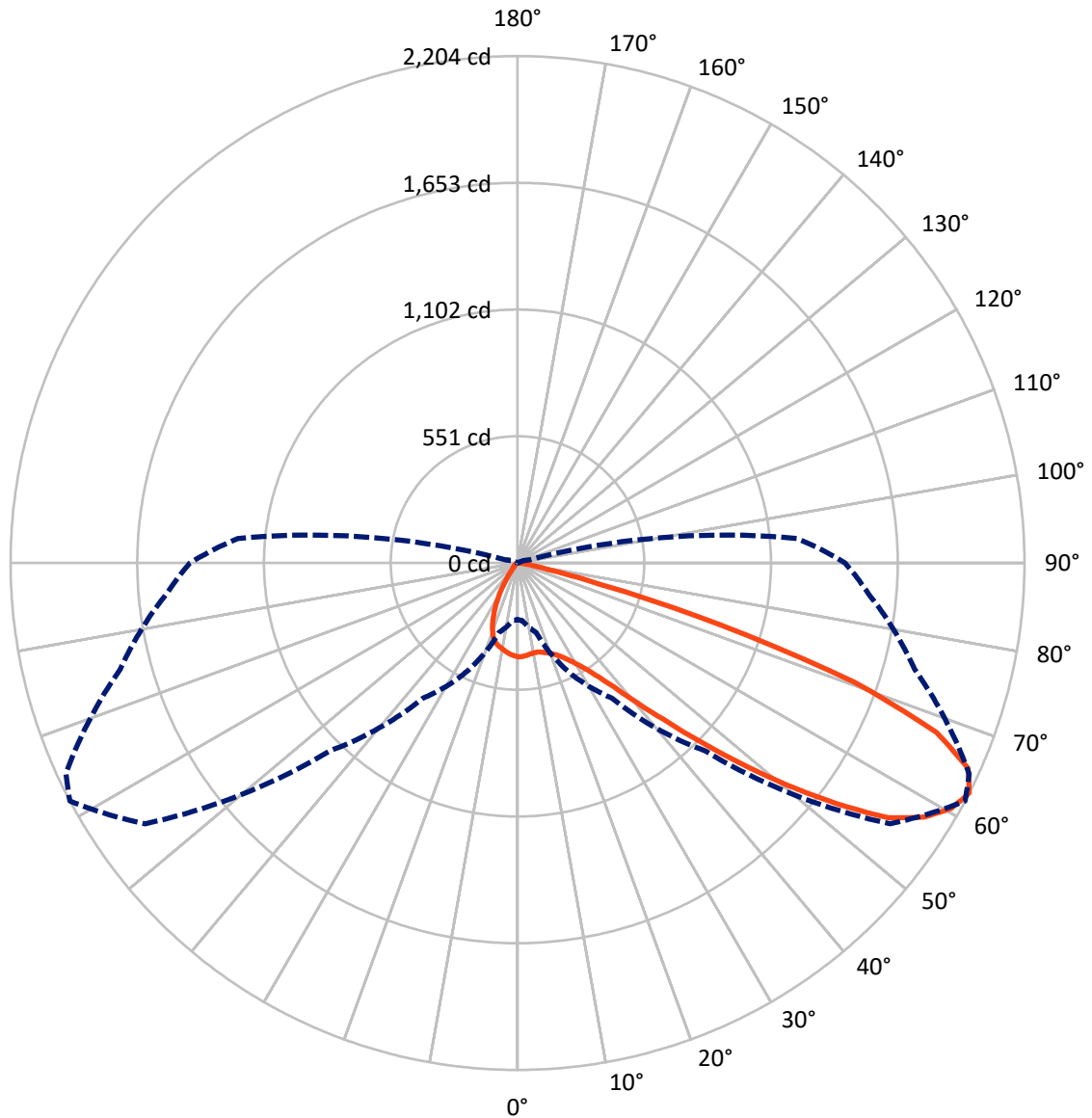


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - Full Cutoff

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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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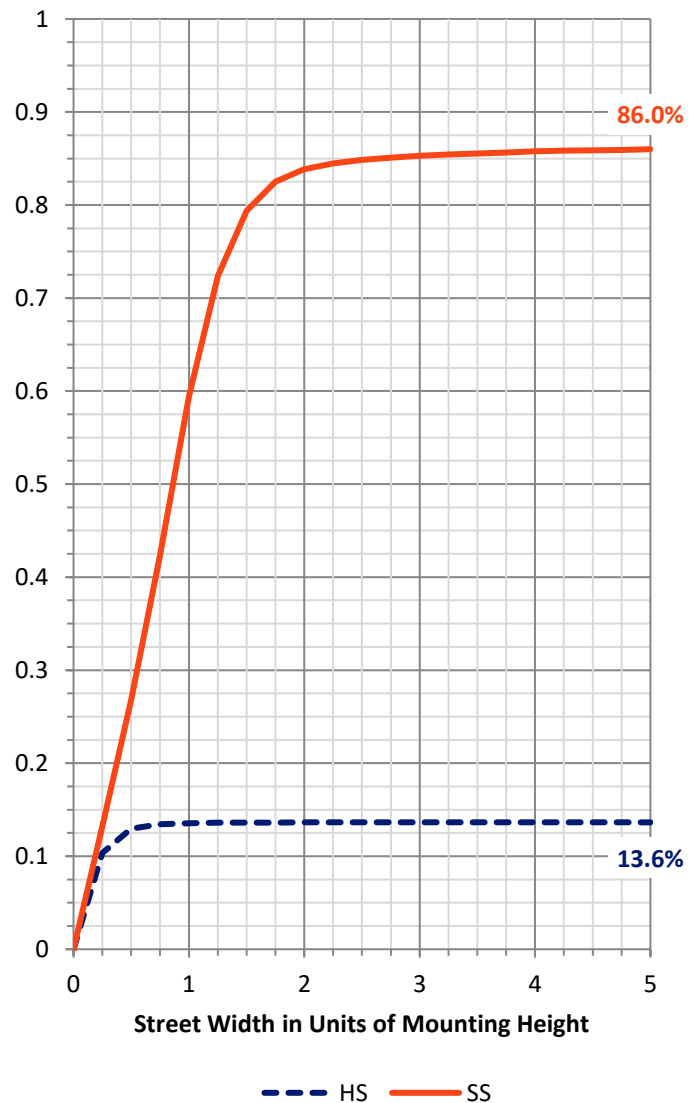
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.7	0.0	362.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	2264.3	0.0	2264.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	2627.0	0.0	2627.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	1.4
10°-20°	93.3	3.6
20°-30°	139.3	5.3
30°-40°	265.4	10.1
40°-50°	553.5	21.1
50°-60°	735.4	28.0
60°-70°	573.3	21.8
70°-80°	216.7	8.2
80°-90°	13.0	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°	2627.0	100.0
0°-180°	2627.0	100.0



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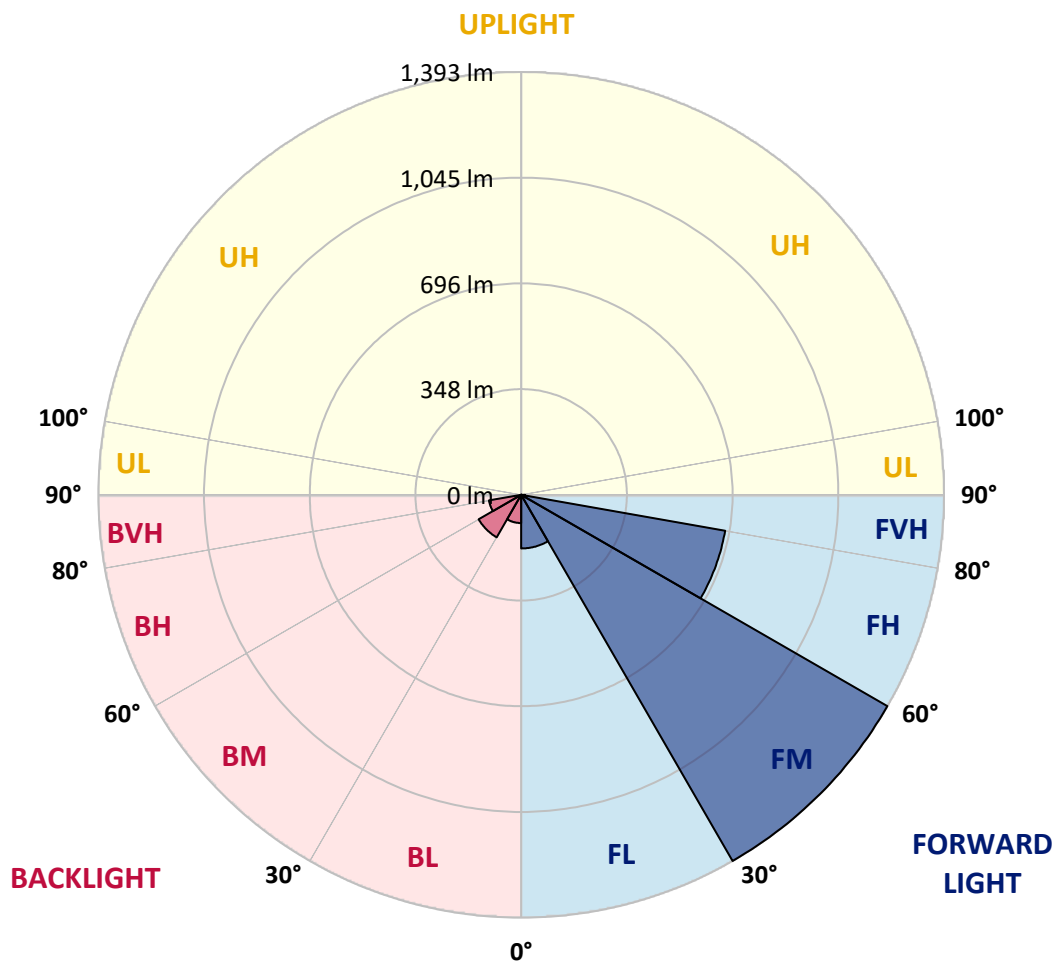
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.8	6.7			
FM (30°-60°)	1392.8	53.0			
FH (60°-80°)	682.3	26.0			G1/1800
FVH (80°-90°)	12.4	0.5			G1/100
BL (0°-30°)	93.0	3.5	B0/110		
BM (30°-60°)	161.5	6.1	B0/220		
BH (60°-80°)	107.6	4.1	B0/110		G0/110
BVH (80°-90°)	0.6	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°	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1
2.5°	406.8	406.1	407.8	407.8	407.4	408.1	407.4	407.1	406.8	406.1	405.4
5°	396.1	396.1	398.5	399.5	400.6	402.6	403.3	404.0	403.7	404.3	404.7
7.5°	383.8	384.4	387.2	388.6	390.3	394.4	396.8	399.5	399.9	402.3	403.7
10°	373.5	374.1	376.9	378.6	381.0	386.5	391.6	396.5	397.1	401.6	402.6
12.5°	366.6	367.3	370.0	372.4	377.6	384.4	391.6	397.1	398.9	404.3	404.3
15°	363.8	364.5	368.0	372.1	378.9	387.9	396.8	402.6	406.1	410.5	408.5
17.5°	362.8	364.2	370.0	376.2	383.8	393.4	404.3	410.5	414.0	418.8	414.3
20°	365.9	367.6	375.2	383.8	391.6	401.6	413.6	420.5	423.9	427.0	418.4
22.5°	376.9	379.6	386.2	395.8	401.9	414.0	426.0	433.9	437.6	437.3	426.0
25°	403.3	406.8	409.8	415.0	417.7	432.2	444.9	452.7	455.5	454.5	441.4
27.5°	465.8	470.3	459.3	447.9	441.8	455.2	469.2	477.5	479.9	477.8	457.9
30°	571.2	571.5	546.5	510.8	484.3	483.0	500.1	511.1	511.1	507.0	481.2
32.5°	724.6	713.6	682.0	618.9	559.2	527.9	541.0	551.6	551.6	546.5	516.9
35°	917.5	909.3	857.1	781.2	674.8	600.0	597.3	607.6	607.9	606.5	572.9
37.5°	1113.8	1093.6	1050.0	959.0	834.1	710.9	677.9	685.1	690.3	689.6	647.7
40°	1296.5	1276.2	1239.5	1152.0	1029.8	874.3	795.3	795.3	795.7	792.2	741.8
42.5°	1439.9	1430.7	1403.2	1342.5	1248.1	1131.4	953.6	927.5	922.0	918.5	852.3
45°	1533.0	1523.3	1508.6	1495.9	1465.3	1423.5	1166.0	1097.7	1088.8	1055.2	974.5
47.5°	1538.1	1523.3	1533.3	1581.4	1650.4	1672.0	1428.3	1296.1	1272.4	1211.7	1097.0
50°	1423.5	1424.8	1463.6	1580.3	1766.7	1889.9	1706.3	1514.4	1477.0	1355.5	1205.2
52.5°	1212.7	1226.4	1286.5	1466.0	1772.2	2029.3	1948.3	1739.6	1665.5	1484.6	1281.4
55°	949.4	961.8	1060.0	1254.2	1638.7	2049.2	2124.4	1955.2	1857.0	1574.5	1349.7
57.5°	671.4	694.7	816.6	995.1	1384.0	1897.1	2172.4	2084.2	1989.1	1662.0	1413.9
60°	408.1	419.8	546.5	754.1	1043.1	1579.0	2116.1	2166.6	2089.7	1737.9	1473.9
62.5°	245.4	252.3	313.0	519.3	717.7	1156.1	1976.8	2204.4	2166.6	1788.3	1531.6
65°	145.2	149.7	178.1	313.7	478.1	709.2	1675.8	2152.5	2183.1	1831.9	1565.2
67.5°	104.7	106.1	116.4	168.9	320.9	380.0	1165.3	1963.7	2078.0	1846.3	1545.3
70°	90.3	92.0	101.9	118.8	227.2	224.1	606.5	1554.2	1761.6	1771.2	1461.2
72.5°	68.3	71.4	87.9	111.6	163.0	159.3	228.6	926.8	1195.9	1454.0	1259.7
75°	46.3	48.1	65.2	94.7	127.3	118.8	119.8	372.1	584.9	911.7	865.7
77.5°	29.2	30.5	39.8	68.0	109.2	83.8	84.8	132.2	211.1	386.5	371.1
80°	19.9	20.6	24.0	43.9	73.8	72.8	54.6	69.0	78.6	119.1	80.0
82.5°	12.0	12.0	15.8	26.1	44.6	57.7	34.3	38.1	41.9	44.3	18.2
85°	4.1	4.5	9.6	16.1	27.5	28.8	19.6	22.7	23.7	25.7	8.6
87.5°	1.7	1.4	5.1	8.9	11.7	13.4	11.3	10.3	11.3	15.1	3.8
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°	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1
2.5°	405.7	404.3	404.3	404.0	401.9	400.9	399.9	397.1	398.9	396.8	395.4
5°	403.7	402.6	400.9	399.2	394.4	390.3	388.6	385.1	384.8	382.0	380.7
7.5°	403.3	400.9	398.2	392.3	385.1	378.6	372.8	366.9	364.5	361.4	359.7
10°	401.6	398.5	393.4	384.1	373.5	363.2	350.1	334.0	322.0	315.1	314.1
12.5°	401.9	398.5	390.6	376.9	362.8	340.2	305.2	268.4	238.2	225.5	223.5
15°	404.7	400.9	388.9	370.4	346.3	296.6	232.4	176.1	137.0	122.9	119.8
17.5°	408.1	401.6	385.1	361.1	314.8	230.0	146.2	92.3	70.4	62.5	61.1
20°	410.2	401.3	378.9	347.0	266.7	153.8	79.6	54.2	47.7	46.0	45.3
22.5°	415.3	402.3	373.8	325.1	206.3	92.7	50.5	42.2	38.4	36.4	36.0
25°	426.0	409.2	374.1	296.6	144.5	55.9	40.8	34.3	30.9	28.8	28.1
27.5°	441.4	421.5	380.7	261.2	89.2	42.2	34.0	27.8	24.0	22.3	22.0
30°	461.0	436.6	388.2	215.2	55.6	35.4	27.5	21.6	18.9	17.8	17.5
32.5°	491.9	462.7	394.7	161.0	38.4	29.2	21.6	17.2	15.4	14.4	14.4
35°	543.0	507.7	405.4	107.8	30.5	23.3	17.5	14.1	12.7	12.0	12.0
37.5°	615.1	571.9	410.5	66.9	25.1	18.2	14.1	11.7	10.6	10.0	10.0
40°	703.0	649.8	403.3	41.5	20.9	14.8	11.7	10.0	8.9	8.6	8.6
42.5°	804.2	739.4	380.7	29.5	17.5	12.0	10.0	8.6	7.9	7.6	7.6
45°	917.5	837.5	339.8	24.7	14.8	10.3	8.6	7.2	6.9	6.5	6.5
47.5°	1030.4	937.1	287.0	21.3	12.4	8.6	7.2	6.2	5.8	5.5	5.5
50°	1129.0	1024.3	231.0	18.5	10.3	7.6	6.2	5.1	4.8	4.5	4.5
52.5°	1185.2	1076.1	178.8	15.4	8.9	6.5	4.8	4.1	3.8	3.4	3.4
55°	1246.0	1119.3	133.5	13.0	7.2	5.5	3.8	3.1	2.7	2.4	2.4
57.5°	1302.6	1158.1	99.2	10.6	6.2	4.1	3.1	2.4	2.1	1.7	1.7
60°	1357.6	1191.1	73.5	8.6	5.1	3.4	2.4	1.7	1.4	1.0	1.0
62.5°	1424.5	1221.3	53.9	6.9	4.5	2.4	1.7	1.0	0.7	0.3	0.3
65°	1474.3	1236.7	40.5	5.1	3.8	1.7	1.0	0.7	0.0	0.0	0.0
67.5°	1473.9	1206.9	29.5	3.8	2.7	1.4	0.7	0.0	0.0	0.0	0.0
70°	1404.9	1116.3	20.6	3.1	2.1	1.0	0.3	0.0	0.0	0.0	0.0
72.5°	1204.8	882.8	13.4	2.1	1.7	0.7	0.3	0.0	0.0	0.0	0.0
75°	813.2	448.3	7.9	1.7	1.4	0.7	0.3	0.0	0.0	0.0	0.0
77.5°	347.7	176.1	4.1	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
80°	72.8	42.6	1.7	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	12.4	6.2	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.7	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)