

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: P397738

Luminaire Tested: **ARCH-S-PA1-30-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2696 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-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

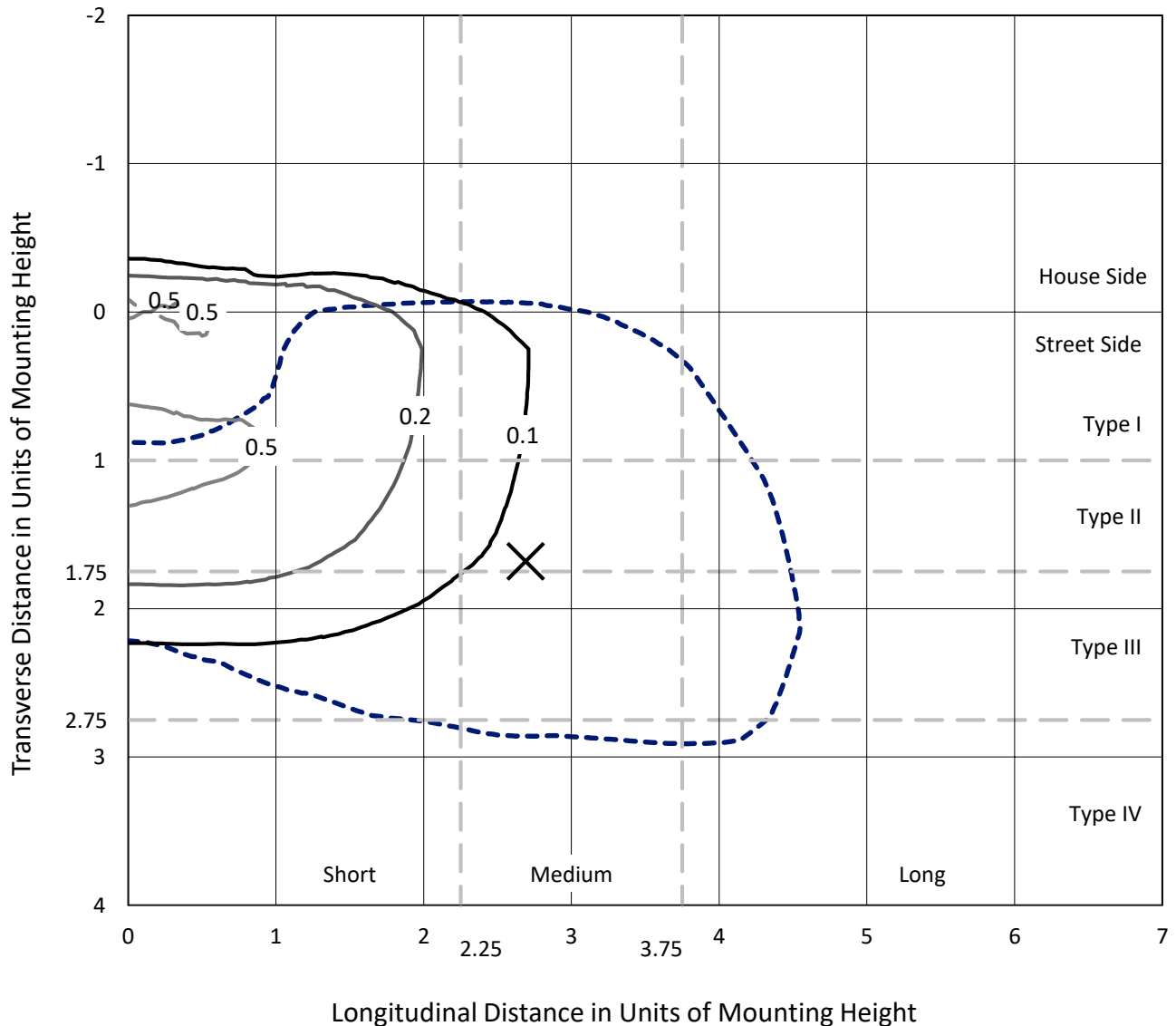


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

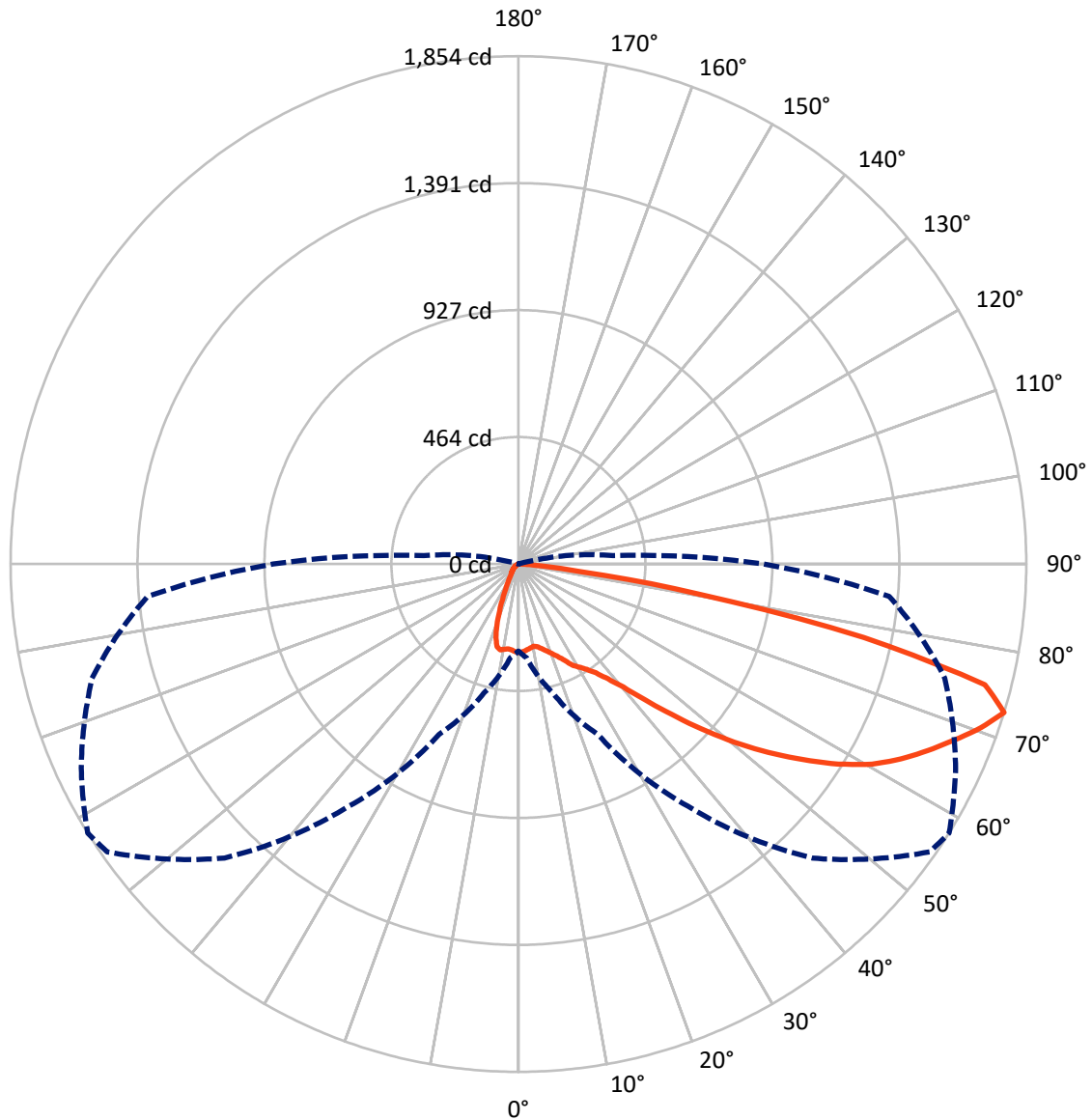


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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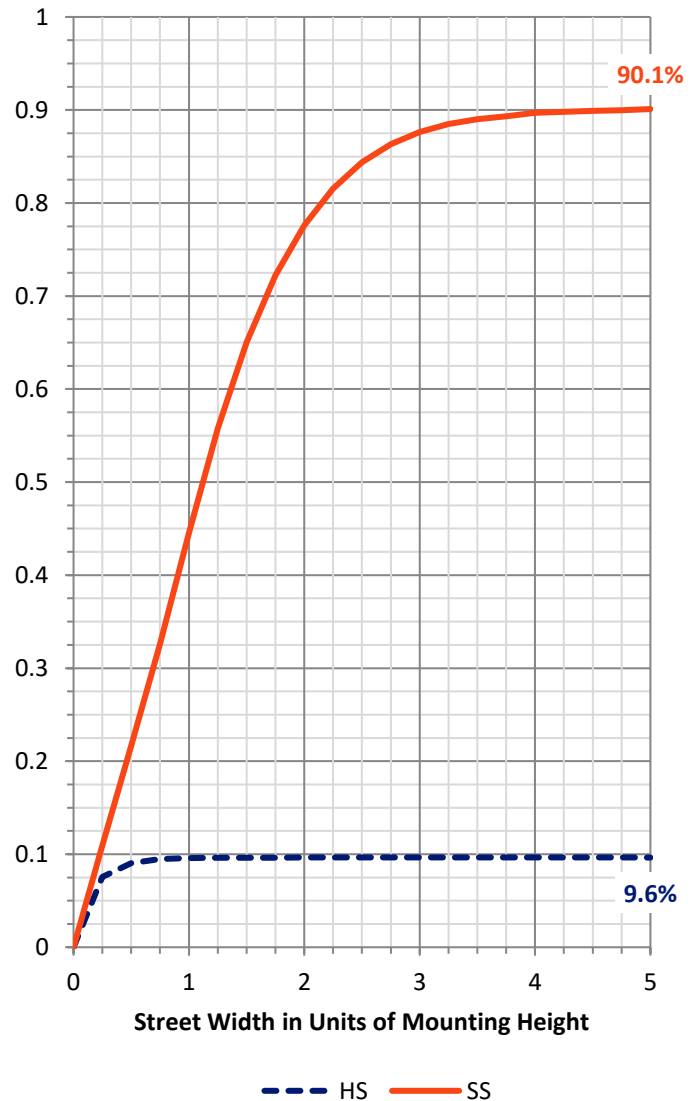
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	262.2	0.0	262.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2433.8	0.0	2433.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	2696.0	0.0	2696.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	1.1
10°-20°	77.3	2.9
20°-30°	121.5	4.5
30°-40°	209.5	7.8
40°-50°	398.6	14.8
50°-60°	631.2	23.4
60°-70°	736.6	27.3
70°-80°	461.3	17.1
80°-90°	30.3	1.1
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°	2696.0	100.0
0°-180°	2696.0	100.0



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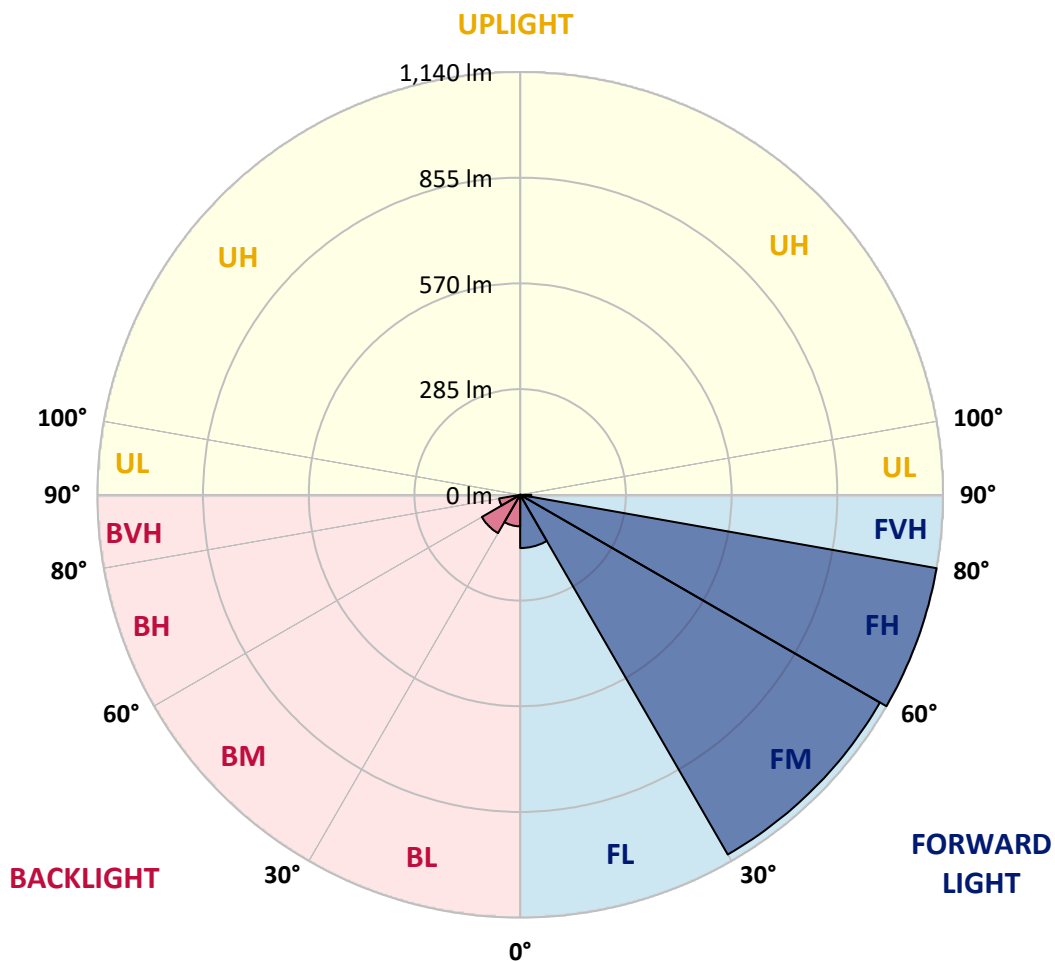
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	143.6	5.3			
FM	(30°-60°)	1120.0	41.5			
FH	(60°-80°)	1140.2	42.3			G1/1800
FVH	(80°-90°)	30.0	1.1			G1/100
BL	(0°-30°)	84.9	3.1	B0/110		
BM	(30°-60°)	119.3	4.4	B0/220		
BH	(60°-80°)	57.7	2.1	B0/110		G0/110
BVH	(80°-90°)	0.3	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5
2.5°	322.1	320.6	320.1	319.6	320.1	320.6	319.2	320.6	319.6	320.1	321.1
5°	310.5	309.0	308.6	309.0	310.5	312.9	313.9	315.3	315.3	316.8	317.2
7.5°	297.5	296.5	296.0	297.0	299.9	305.2	308.1	310.0	311.9	314.8	317.7
10°	290.2	289.8	289.3	290.7	293.6	298.4	302.3	305.2	312.4	320.6	325.9
12.5°	285.4	285.4	286.4	289.3	293.1	297.0	306.1	310.0	321.1	333.6	340.9
15°	281.6	281.6	283.0	288.3	293.6	302.8	316.3	320.6	333.6	349.1	358.7
17.5°	278.7	279.6	280.6	285.9	296.0	311.5	327.4	333.6	349.5	366.4	377.0
20°	279.1	280.1	280.6	285.9	300.4	321.6	341.8	349.1	367.4	385.2	395.8
22.5°	282.0	283.5	284.0	291.2	308.1	332.2	358.2	366.4	386.2	405.0	413.2
25°	294.1	295.1	292.2	298.4	319.2	348.6	379.4	388.1	407.9	425.2	432.0
27.5°	335.1	336.0	320.1	312.9	327.8	362.1	405.5	417.5	442.1	453.7	454.6
30°	423.8	424.7	393.4	359.2	348.6	373.6	419.9	436.8	468.6	481.6	475.9
32.5°	538.0	537.1	494.2	443.6	397.8	393.9	440.7	458.5	493.2	505.7	501.4
35°	652.8	654.2	617.6	541.4	475.9	432.0	467.2	487.9	529.9	547.7	540.0
37.5°	731.4	741.0	725.1	642.7	571.8	502.4	510.1	532.3	584.8	608.9	592.5
40°	842.3	839.9	801.3	740.5	677.9	606.5	579.5	590.1	650.4	682.7	657.1
42.5°	991.2	986.4	920.9	861.6	791.6	733.3	678.3	676.4	725.6	763.2	726.1
45°	1126.2	1119.0	1074.2	1016.8	940.1	873.1	798.9	782.0	816.2	848.1	804.7
47.5°	1233.7	1221.7	1189.9	1159.5	1140.7	1036.6	925.2	899.6	917.0	940.6	879.4
50°	1361.0	1327.8	1281.5	1263.2	1302.2	1221.7	1046.7	1022.1	1021.1	1034.6	956.5
52.5°	1418.9	1358.6	1332.6	1348.0	1417.0	1393.8	1177.8	1142.6	1128.6	1130.1	1028.4
55°	1349.0	1342.2	1356.2	1404.4	1494.6	1481.1	1303.7	1260.3	1239.5	1213.5	1097.3
57.5°	1269.4	1290.2	1345.6	1437.7	1592.9	1572.2	1427.6	1378.4	1340.3	1280.5	1174.0
60°	1196.1	1217.4	1309.0	1445.4	1646.9	1659.9	1530.7	1484.0	1427.6	1349.0	1258.3
62.5°	1084.8	1101.2	1229.9	1434.3	1623.3	1711.0	1602.6	1567.4	1514.8	1414.1	1355.2
65°	959.4	970.0	1097.3	1345.6	1577.0	1705.3	1661.9	1642.1	1591.0	1482.0	1451.2
67.5°	822.0	834.6	940.6	1186.0	1486.4	1678.3	1717.8	1715.9	1657.5	1557.3	1520.6
70°	663.9	664.8	752.6	983.5	1328.2	1624.3	1787.2	1791.6	1721.2	1613.7	1523.5
72.5°	317.7	343.8	487.9	686.5	1079.5	1518.2	1832.5	1854.2	1761.2	1611.7	1359.1
75°	72.8	75.2	142.2	326.4	633.0	1165.3	1719.2	1759.7	1663.8	1393.8	957.5
77.5°	26.5	28.0	40.0	95.5	243.5	602.2	1230.4	1289.7	1229.9	901.1	452.7
80°	17.8	17.4	20.7	42.4	111.9	170.7	629.2	664.4	606.5	307.6	108.5
82.5°	9.2	9.6	14.5	23.6	75.2	59.3	210.2	228.5	188.0	61.7	20.2
85°	4.3	4.3	8.2	14.9	31.8	20.7	46.8	56.4	50.6	27.0	6.7
87.5°	4.3	4.3	7.7	9.6	16.4	8.7	11.6	14.5	13.5	14.5	2.4
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°	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5
2.5°	321.1	320.6	320.1	321.1	320.6	321.6	321.6	322.5	322.5	321.6	321.1
5°	316.8	315.8	314.8	314.8	314.3	315.3	318.2	320.6	321.1	319.6	319.2
7.5°	317.2	317.2	316.3	314.3	311.0	311.0	311.0	313.9	315.3	314.3	313.9
10°	325.9	326.4	324.0	319.6	313.9	308.6	298.4	283.5	269.5	265.6	264.2
12.5°	340.9	341.3	336.5	328.8	316.8	285.4	246.8	211.2	183.7	176.0	174.5
15°	358.7	359.2	350.5	338.0	301.3	228.5	171.2	130.7	106.5	100.8	100.3
17.5°	377.0	376.1	363.0	338.9	255.5	162.0	104.1	83.4	77.1	75.7	76.2
20°	394.9	392.0	374.1	321.1	196.7	106.1	76.2	71.4	69.9	68.9	68.9
22.5°	411.2	405.5	383.3	285.9	137.9	76.2	68.0	67.0	65.1	63.6	63.2
25°	427.6	419.4	389.1	240.1	92.6	66.5	64.1	62.2	59.8	57.9	57.4
27.5°	447.4	435.8	386.2	182.2	69.4	61.7	59.8	56.9	53.5	50.6	49.7
30°	466.2	453.2	369.8	125.8	59.3	56.9	54.0	49.7	45.3	41.9	41.0
32.5°	489.8	474.9	340.4	82.4	51.6	49.7	46.8	41.5	35.7	31.8	30.9
35°	523.6	506.7	302.8	57.9	45.3	41.9	38.1	32.3	26.0	23.1	22.7
37.5°	570.8	548.2	255.5	46.8	40.0	35.2	29.4	23.6	19.3	16.9	16.4
40°	628.7	594.0	203.0	41.5	35.7	29.4	22.2	16.9	14.0	12.1	12.1
42.5°	691.4	636.9	149.5	38.1	31.3	24.1	16.4	12.1	10.1	9.2	8.7
45°	756.0	675.0	100.8	35.2	27.5	18.3	11.6	8.2	6.7	6.7	6.3
47.5°	823.0	700.5	65.1	31.8	23.1	13.5	7.7	5.8	4.8	4.8	4.8
50°	889.5	714.0	46.3	28.9	18.8	9.2	5.8	4.3	3.9	3.9	3.9
52.5°	937.7	705.3	37.1	25.1	14.5	6.7	4.3	3.4	2.9	2.9	2.9
55°	979.7	690.4	32.3	21.7	10.6	4.8	3.4	2.9	2.4	2.4	2.4
57.5°	1022.6	671.1	28.9	18.3	7.7	3.4	2.4	1.9	1.9	1.9	1.9
60°	1061.6	638.3	25.1	14.5	5.3	2.4	1.9	1.4	1.4	1.4	1.4
62.5°	1099.7	610.4	21.7	11.1	3.9	1.9	1.0	1.0	0.5	0.5	0.5
65°	1121.4	572.8	17.4	7.2	2.4	1.4	0.5	0.5	0.0	0.0	0.0
67.5°	1114.7	527.9	12.1	4.3	1.4	1.0	0.5	0.0	0.0	0.0	0.0
70°	1067.9	467.7	7.2	2.4	1.4	1.0	0.5	0.0	0.0	0.0	0.0
72.5°	894.3	346.2	4.3	1.9	1.0	0.5	0.0	0.0	0.0	0.0	0.0
75°	597.3	159.1	2.4	1.4	0.5	0.5	0.0	0.0	0.0	0.0	0.0
77.5°	273.4	47.7	1.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	55.0	12.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.6	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	0.0	0.0	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)