

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: P348873

Luminaire Tested: **ARCH-N-PA1-40-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3578 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

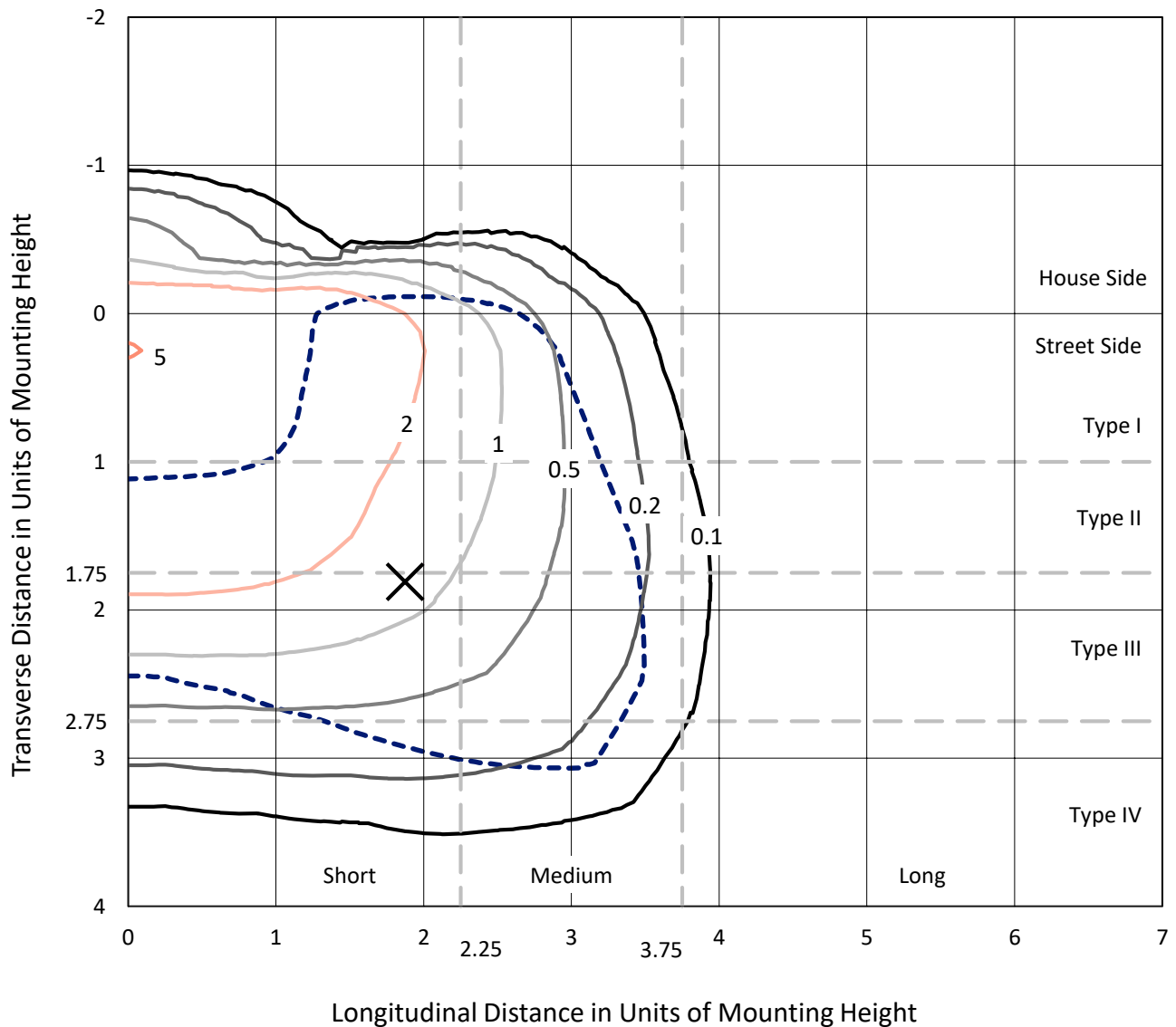
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

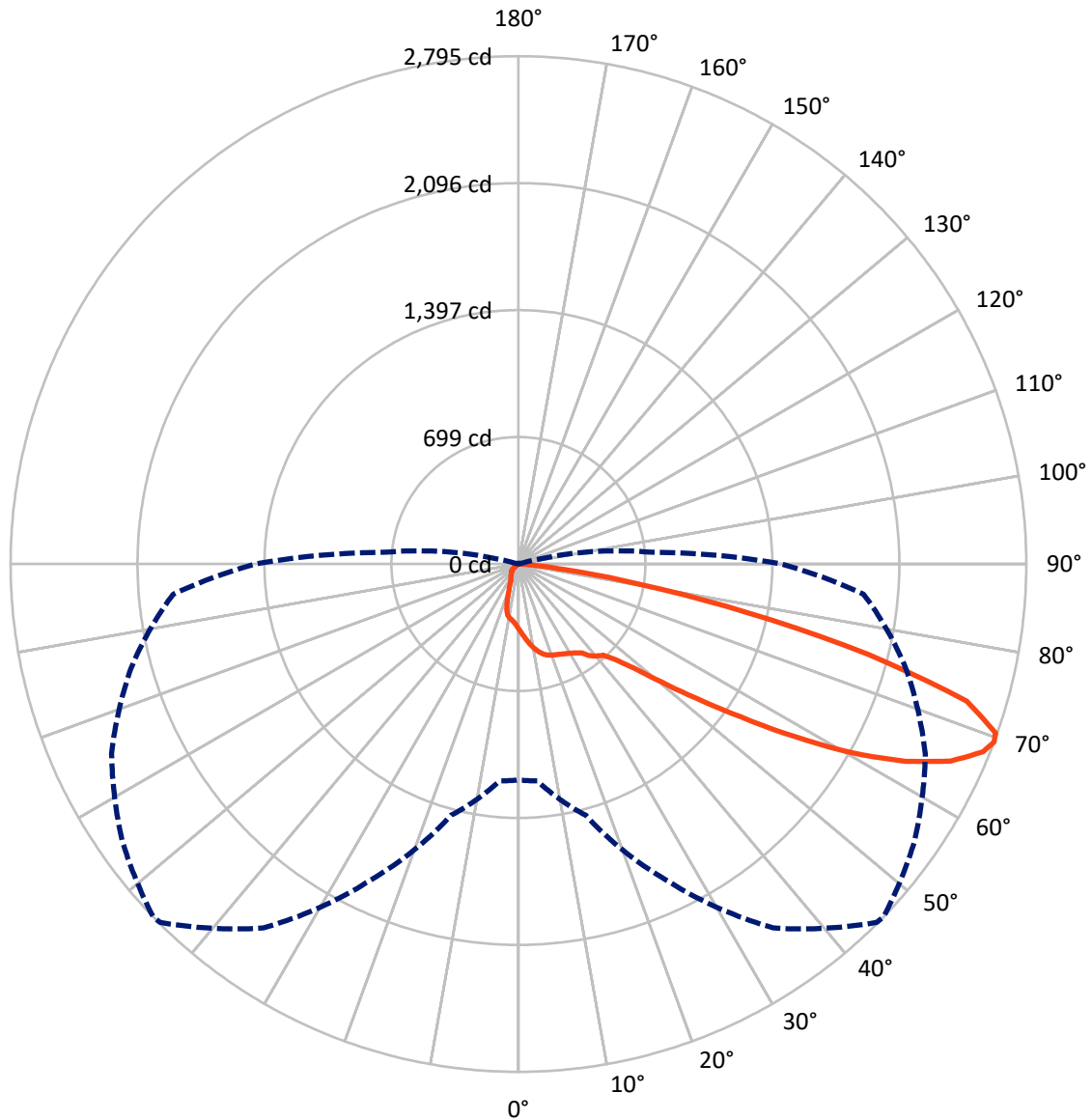


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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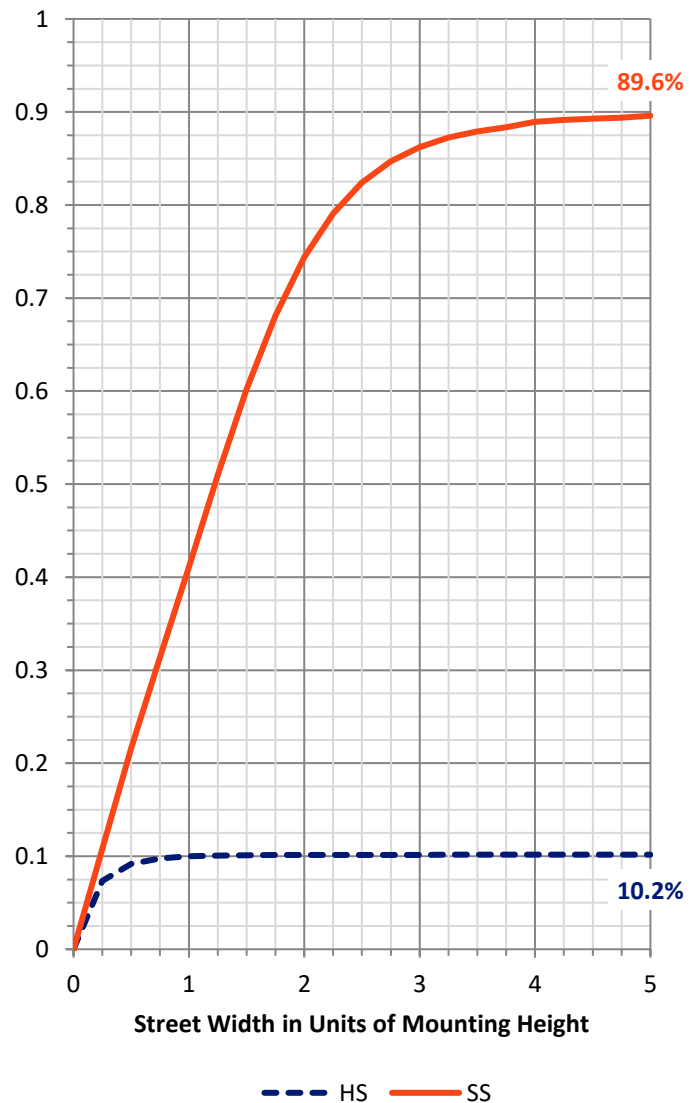
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	367.2	0.0	367.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3210.8	0.0	3210.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	3578.0	0.0	3578.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	1.0
10°-20°	108.3	3.0
20°-30°	170.2	4.8
30°-40°	244.1	6.8
40°-50°	422.0	11.8
50°-60°	833.6	23.3
60°-70°	1165.1	32.6
70°-80°	562.8	15.7
80°-90°	36.2	1.0
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°	3578.0	100.0
0°-180°	3578.0	100.0



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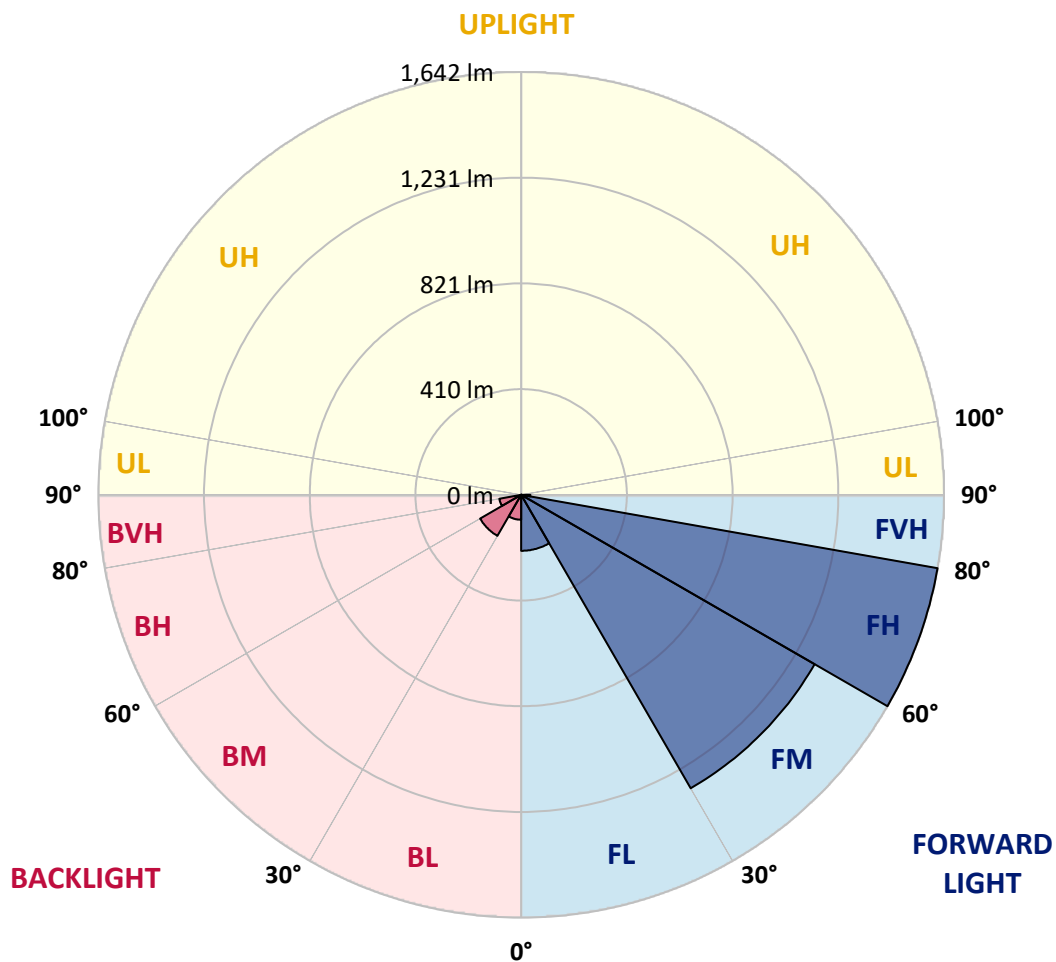
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.4	6.1			
FM	(30°-60°)	1315.7	36.8			
FH	(60°-80°)	1641.8	45.9			G1/1800
FVH	(80°-90°)	35.9	1.0			G1/100
BL	(0°-30°)	96.8	2.7	B0/110		
BM	(30°-60°)	184.0	5.1	B0/220		
BH	(60°-80°)	86.1	2.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5
2.5°	398.3	397.8	395.4	394.4	388.7	385.3	384.0	379.8	373.8	367.7	361.0
5°	443.6	443.4	439.0	434.8	424.1	414.0	412.2	402.5	388.9	376.1	363.4
7.5°	489.9	487.7	483.3	475.3	459.7	443.6	442.0	428.3	409.0	390.5	372.3
10°	529.1	527.8	522.1	509.8	491.5	473.2	471.4	454.5	432.7	410.0	386.7
12.5°	559.6	558.6	551.1	535.8	516.4	497.4	494.9	479.8	456.5	431.1	403.6
15°	578.3	577.8	568.5	552.3	533.1	516.7	514.5	501.3	479.6	453.1	422.1
17.5°	582.6	582.8	573.2	556.8	541.0	529.3	527.6	517.5	499.4	473.1	440.5
20°	572.9	574.9	566.4	552.1	542.4	536.2	534.8	528.8	513.5	488.7	455.3
22.5°	559.1	560.1	554.3	544.7	540.7	541.9	541.2	537.8	524.9	502.1	469.9
25°	550.8	550.8	547.2	539.2	541.9	549.1	549.2	548.6	538.3	518.5	487.7
27.5°	550.4	549.4	545.4	539.3	546.7	557.8	558.5	563.0	556.6	538.5	509.8
30°	563.8	562.7	554.1	546.2	555.6	567.5	569.2	579.1	575.9	560.1	534.5
32.5°	595.2	591.0	572.1	559.1	566.2	580.4	582.6	598.4	603.4	586.8	558.3
35°	638.2	624.9	597.6	583.6	584.3	599.2	601.3	624.4	639.3	611.3	576.8
37.5°	697.4	690.8	646.4	609.1	612.2	634.8	640.7	665.8	661.6	624.7	597.7
40°	827.2	817.0	769.7	680.6	638.8	663.7	665.5	678.9	679.3	655.1	641.3
42.5°	1004.0	999.8	950.0	810.3	691.3	682.9	686.3	709.0	734.3	719.2	718.5
45°	1199.8	1197.6	1144.8	982.4	797.5	746.2	750.4	780.8	829.2	832.6	853.9
47.5°	1357.3	1356.3	1326.0	1174.5	960.1	853.4	854.7	886.9	972.2	1014.3	1048.3
50°	1500.9	1505.8	1481.8	1382.3	1181.5	1021.3	1018.1	1039.6	1176.5	1245.4	1287.7
52.5°	1700.6	1707.5	1640.2	1576.3	1413.9	1229.7	1227.2	1249.6	1422.1	1473.8	1481.3
55°	1876.9	1865.2	1812.0	1793.5	1697.2	1487.0	1486.3	1506.1	1659.6	1681.6	1695.5
57.5°	1954.7	1950.2	1975.9	2018.1	1994.0	1791.2	1789.7	1774.6	1872.2	1874.5	1917.3
60°	2003.9	2009.4	2088.1	2218.5	2278.7	2118.5	2108.7	2016.6	2075.2	2070.0	2115.8
62.5°	1967.0	1977.9	2119.5	2336.7	2491.7	2404.2	2390.4	2238.4	2248.6	2230.7	2273.3
65°	1771.0	1788.0	2020.0	2314.4	2597.4	2627.5	2613.5	2434.2	2386.4	2356.9	2333.2
67.5°	1438.0	1448.1	1690.3	2120.3	2549.8	2760.7	2757.8	2605.8	2490.4	2335.5	2152.0
69°	1188.4	1198.3	1431.5	1916.0	2444.9	2789.2	2794.7	2660.8	2470.6	2206.0	1906.8
70°	1006.6	1017.1	1234.4	1740.8	2323.3	2775.9	2785.8	2655.6	2413.9	2056.1	1691.5
72.5°	527.9	537.0	760.0	1199.3	1894.0	2548.9	2579.0	2431.2	2046.2	1493.2	1000.2
75°	165.9	171.1	296.8	626.9	1296.8	1981.9	1988.8	1907.1	1453.0	821.4	416.5
77.5°	63.2	61.7	98.8	231.0	655.6	1248.0	1290.1	1191.8	762.5	290.4	96.1
80°	34.1	34.2	51.3	95.6	280.5	641.3	676.9	577.6	270.9	90.6	22.1
82.5°	14.8	15.4	28.9	50.7	128.8	236.5	254.3	211.7	103.5	60.9	8.2
85°	3.2	3.5	13.9	27.5	52.5	66.4	69.6	68.6	65.9	47.3	3.2
87.5°	0.0	0.0	6.2	9.9	13.3	15.1	13.3	17.3	36.4	31.9	1.7
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°	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5
2.5°	358.8	355.8	350.6	344.9	340.9	336.7	333.3	331.8	330.2	329.0	330.5
5°	358.2	352.3	342.2	332.5	325.5	319.7	315.1	313.2	311.4	310.0	309.9
7.5°	364.0	355.8	340.4	326.1	315.2	307.5	301.1	298.4	296.3	295.3	294.4
10°	375.3	364.7	344.1	325.5	311.4	298.3	284.5	274.0	267.1	263.9	262.7
12.5°	389.9	376.6	351.1	329.0	308.5	283.3	254.2	229.0	212.7	207.4	204.2
15°	407.0	390.5	360.3	333.5	298.1	252.1	202.7	169.8	154.7	151.7	148.3
17.5°	423.4	405.3	371.4	334.3	275.3	201.5	148.5	126.2	120.3	122.3	122.8
20°	437.9	419.9	382.3	327.0	233.9	151.2	114.9	109.4	111.6	115.4	116.1
22.5°	452.4	434.0	392.4	307.5	180.8	114.7	103.5	104.8	107.0	110.9	111.6
25°	470.2	451.1	401.8	271.8	135.7	97.6	98.3	100.3	102.5	106.0	106.4
27.5°	490.7	472.7	408.0	225.3	100.7	89.8	91.9	95.0	97.1	100.5	101.2
30°	517.9	501.3	410.0	177.2	84.4	82.7	83.7	87.4	90.6	93.6	94.1
32.5°	543.4	529.4	403.3	133.7	78.2	76.2	76.2	78.3	82.0	84.9	85.6
35°	566.9	557.8	381.8	97.8	73.5	70.1	68.4	68.4	70.8	73.1	73.8
37.5°	597.9	597.6	347.1	78.0	68.9	65.1	61.6	58.9	58.0	58.5	58.9
40°	651.1	651.6	301.8	70.0	65.1	59.9	54.5	49.7	45.1	43.6	43.4
42.5°	734.1	726.6	254.3	66.1	61.7	54.5	46.5	39.9	32.9	30.7	30.5
45°	866.0	821.2	204.0	62.6	58.2	48.5	38.4	29.5	23.8	22.1	22.1
47.5°	1058.1	945.5	158.0	58.7	53.5	41.6	29.0	21.3	17.4	16.6	16.8
50°	1256.7	1067.3	121.1	53.9	47.8	34.4	21.5	15.4	13.3	13.3	13.4
52.5°	1432.8	1156.5	94.4	48.7	40.8	27.0	16.3	12.1	11.1	10.9	11.1
55°	1597.7	1214.1	72.3	42.6	32.4	20.1	12.4	9.9	9.2	8.9	8.7
57.5°	1756.8	1242.6	54.2	34.4	23.5	14.6	9.9	8.4	7.7	7.2	7.0
60°	1862.6	1219.4	37.2	25.3	16.3	10.6	8.2	7.2	6.4	5.9	5.7
62.5°	1922.4	1156.2	24.0	18.3	11.6	7.9	6.5	6.0	4.9	4.4	4.4
65°	1898.2	1051.9	16.8	13.1	8.4	5.9	4.9	4.9	3.5	2.9	2.7
67.5°	1682.1	888.6	12.7	9.7	6.0	4.4	3.7	4.2	2.2	1.3	1.3
69°	1447.3	736.5	10.9	8.1	5.0	3.5	3.2	3.9	1.5	1.0	0.8
70°	1257.9	635.3	9.9	7.0	4.2	3.0	2.9	3.7	1.5	0.8	0.7
72.5°	752.6	354.3	7.5	5.0	2.7	2.3	2.3	4.2	1.5	0.8	0.7
75°	304.1	124.8	5.5	3.5	2.0	2.0	2.9	5.4	1.3	0.7	0.5
77.5°	68.9	27.3	3.2	2.2	1.3	2.0	3.4	4.2	0.8	0.3	0.0
80°	16.8	6.7	2.0	1.3	0.8	1.5	2.5	2.3	0.2	0.0	0.0
82.5°	5.5	2.3	0.8	0.7	0.2	0.5	1.2	0.7	0.0	0.0	0.0
85°	2.3	1.3	0.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.5	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)