

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: P348872

Luminaire Tested: **ARCH-N-PA1-30-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348872
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-PA1-30-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2833 lumens
Efficiency: N/A
Efficacy: 91.4 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): 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

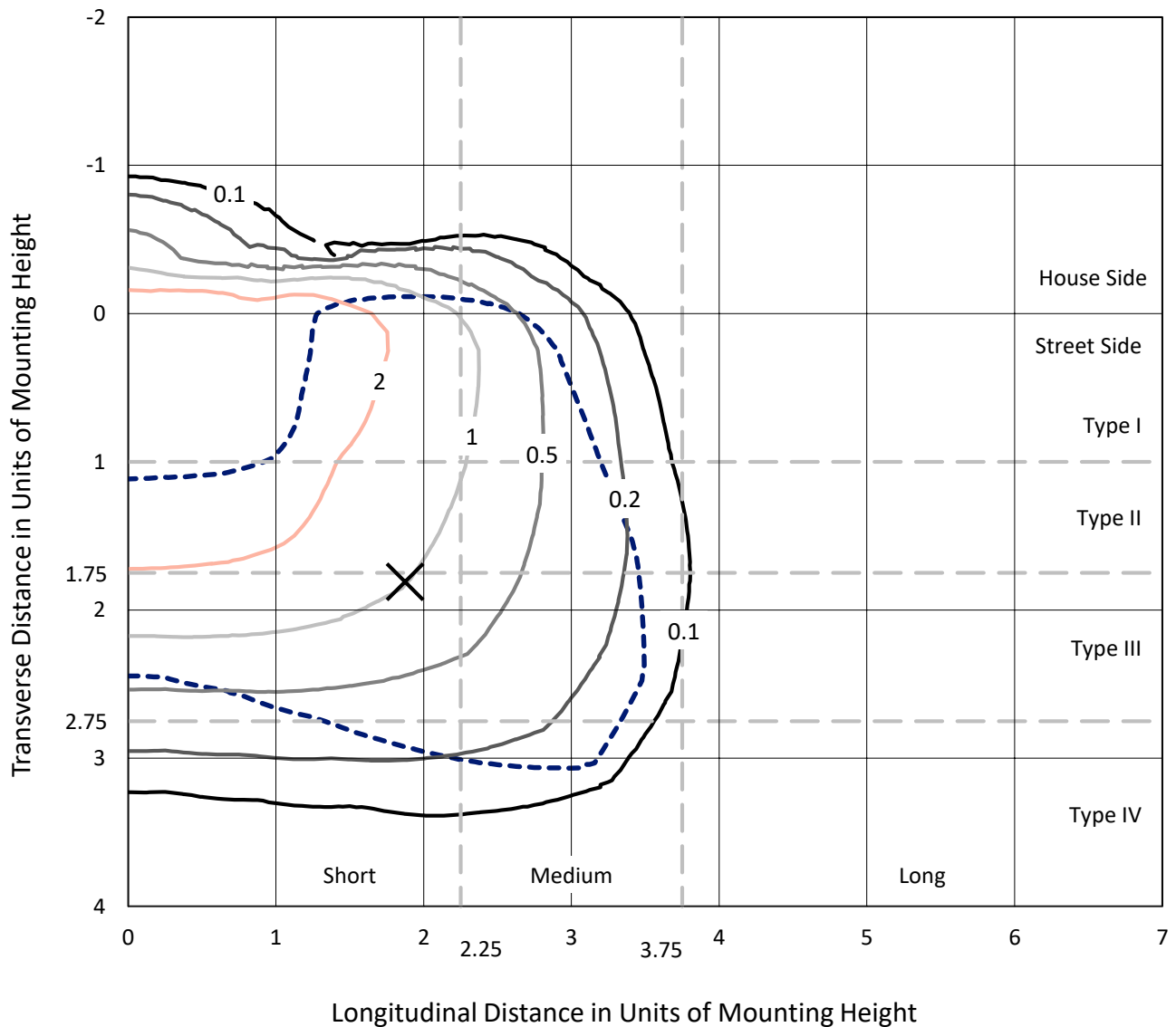


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

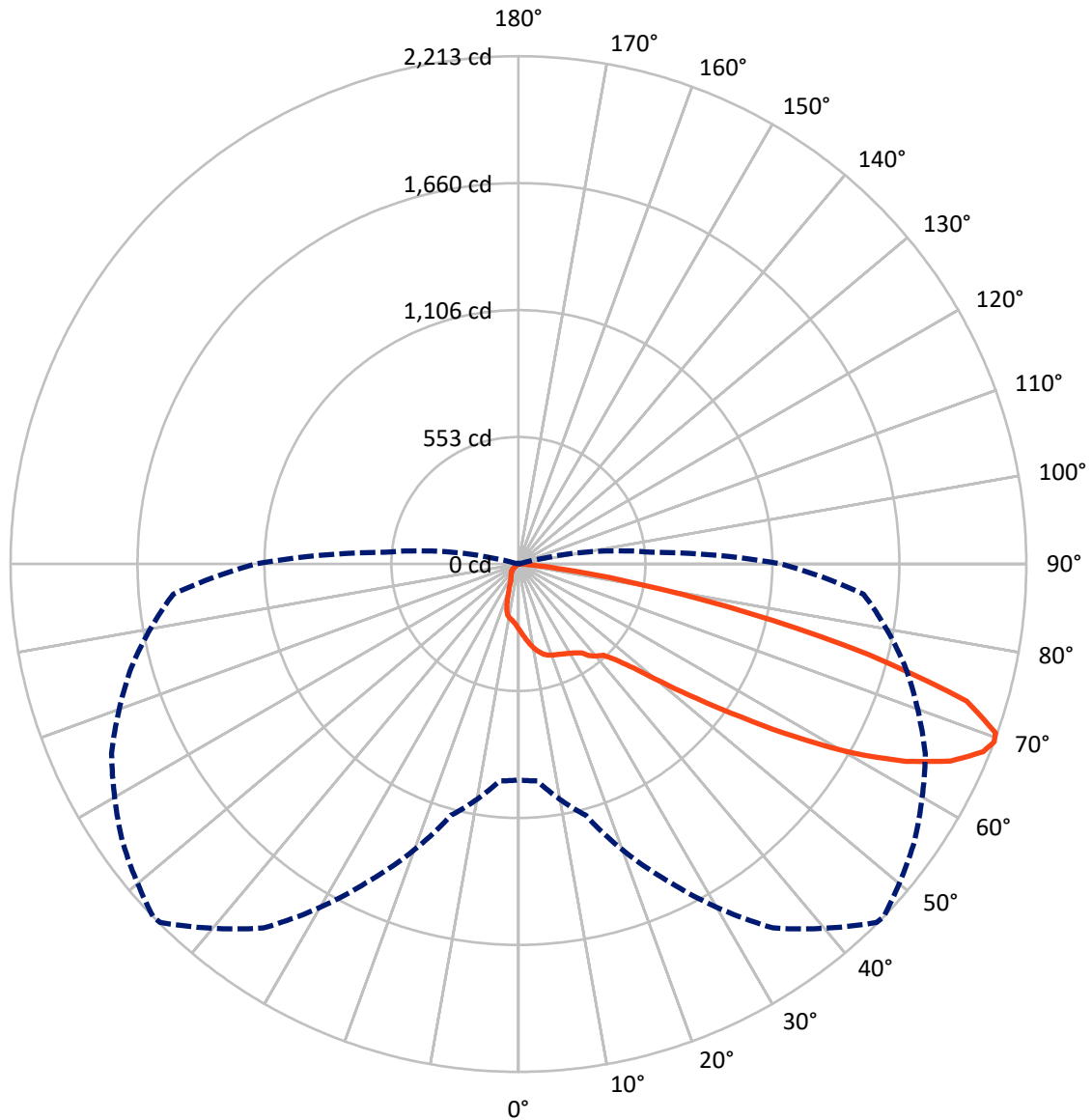


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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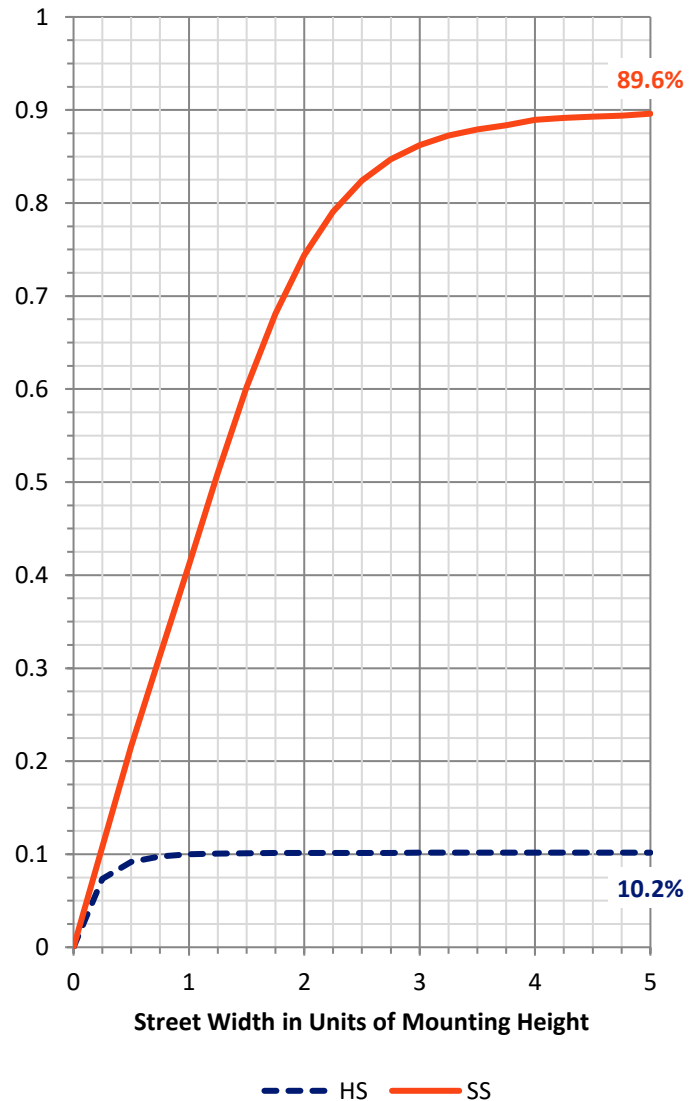
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	290.7	0.0	290.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	2542.2	0.0	2542.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	2833.0	0.0	2833.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	1.0
10°-20°	85.7	3.0
20°-30°	134.8	4.8
30°-40°	193.3	6.8
40°-50°	334.1	11.8
50°-60°	660.0	23.3
60°-70°	922.5	32.6
70°-80°	445.7	15.7
80°-90°	28.6	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°	2833.0	100.0
0°-180°	2833.0	100.0



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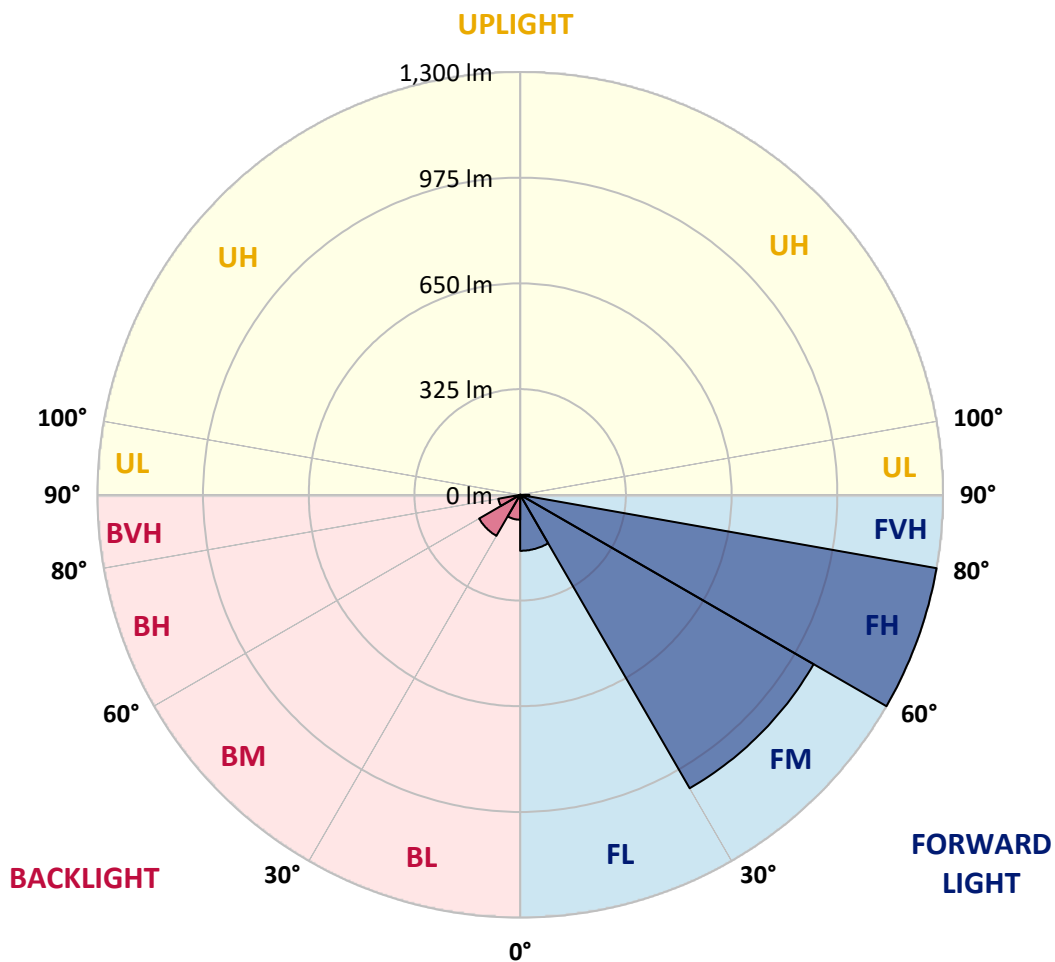
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	172.1	6.1			
FM	(30°-60°)	1041.8	36.8			
FH	(60°-80°)	1300.0	45.9			G1/1800
FVH	(80°-90°)	28.4	1.0			G1/100
BL	(0°-30°)	76.6	2.7	B0/110		
BM	(30°-60°)	145.7	5.1	B0/220		
BH	(60°-80°)	68.2	2.4	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9
2.5°	315.3	314.9	313.1	312.3	307.8	305.1	304.0	300.7	295.9	291.2	285.8
5°	351.2	351.1	347.6	344.3	335.8	327.8	326.4	318.7	307.9	297.8	287.7
7.5°	387.9	386.1	382.7	376.3	364.0	351.2	350.0	339.1	323.8	309.2	294.7
10°	418.9	417.9	413.4	403.7	389.2	374.7	373.3	359.8	342.6	324.6	306.2
12.5°	443.1	442.3	436.3	424.3	408.8	393.8	391.8	379.9	361.4	341.4	319.6
15°	457.9	457.5	450.2	437.3	422.1	409.1	407.4	396.9	379.8	358.8	334.2
17.5°	461.3	461.4	453.9	440.9	428.4	419.1	417.7	409.8	395.4	374.6	348.8
20°	453.6	455.2	448.4	437.1	429.4	424.5	423.5	418.7	406.6	386.9	360.5
22.5°	442.7	443.5	438.9	431.3	428.1	429.0	428.5	425.9	415.6	397.6	372.1
25°	436.1	436.1	433.3	426.9	429.0	434.7	434.9	434.4	426.2	410.6	386.1
27.5°	435.8	435.0	431.8	427.0	432.9	441.7	442.2	445.8	440.7	426.4	403.7
30°	446.4	445.5	438.7	432.5	439.9	449.4	450.7	458.5	456.0	443.5	423.2
32.5°	471.3	468.0	452.9	442.7	448.3	459.6	461.3	473.8	477.8	464.6	442.1
35°	505.3	494.8	473.1	462.1	462.6	474.5	476.1	494.4	506.2	484.0	456.7
37.5°	552.2	547.0	511.8	482.3	484.7	502.6	507.3	527.2	523.9	494.7	473.3
40°	655.0	646.9	609.4	538.9	505.8	525.5	526.9	537.6	537.8	518.7	507.8
42.5°	795.0	791.7	752.2	641.6	547.4	540.7	543.4	561.3	581.4	569.4	568.9
45°	950.0	948.3	906.4	777.8	631.5	590.8	594.1	618.2	656.6	659.2	676.1
47.5°	1074.7	1073.9	1049.9	929.9	760.2	675.7	676.8	702.3	769.7	803.1	830.0
50°	1188.4	1192.3	1173.3	1094.5	935.5	808.7	806.1	823.1	931.5	986.1	1019.6
52.5°	1346.5	1351.9	1298.7	1248.1	1119.5	973.6	971.6	989.4	1126.0	1166.9	1172.9
55°	1486.1	1476.8	1434.7	1420.1	1343.8	1177.4	1176.9	1192.5	1314.1	1331.5	1342.5
57.5°	1547.7	1544.1	1564.5	1597.9	1578.8	1418.2	1417.0	1405.1	1482.4	1484.2	1518.1
60°	1586.6	1591.0	1653.3	1756.5	1804.2	1677.4	1669.7	1596.7	1643.1	1639.0	1675.2
62.5°	1557.4	1566.1	1678.2	1850.2	1972.9	1903.6	1892.7	1772.3	1780.4	1766.2	1800.0
65°	1402.3	1415.7	1599.4	1832.5	2056.6	2080.4	2069.3	1927.4	1889.5	1866.1	1847.4
67.5°	1138.6	1146.6	1338.4	1678.8	2018.9	2185.8	2183.6	2063.2	1971.8	1849.2	1703.9
69°	941.0	948.8	1133.4	1517.0	1935.9	2208.4	2212.8	2106.8	1956.2	1746.7	1509.7
70°	797.0	805.3	977.4	1378.4	1839.6	2197.9	2205.8	2102.7	1911.3	1628.0	1339.3
72.5°	418.0	425.2	601.7	949.6	1499.6	2018.2	2042.0	1925.0	1620.1	1182.3	791.9
75°	131.4	135.5	235.0	496.4	1026.8	1569.2	1574.7	1510.0	1150.4	650.3	329.8
77.5°	50.1	48.9	78.2	182.9	519.1	988.1	1021.5	943.6	603.7	229.9	76.1
80°	27.0	27.1	40.6	75.7	222.1	507.8	536.0	457.3	214.5	71.7	17.5
82.5°	11.7	12.2	22.8	40.1	102.0	187.3	201.4	167.6	82.0	48.2	6.5
85°	2.5	2.8	11.0	21.8	41.6	52.6	55.1	54.3	52.2	37.5	2.5
87.5°	0.0	0.0	4.9	7.8	10.5	12.0	10.5	13.7	28.8	25.2	1.3
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°	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9
2.5°	284.1	281.7	277.6	273.1	269.9	266.6	263.9	262.7	261.4	260.5	261.7
5°	283.6	278.9	271.0	263.3	257.7	253.2	249.5	248.0	246.5	245.5	245.3
7.5°	288.2	281.7	269.5	258.2	249.6	243.5	238.4	236.3	234.6	233.8	233.1
10°	297.1	288.8	272.4	257.7	246.5	236.2	225.3	216.9	211.5	208.9	208.0
12.5°	308.7	298.2	278.0	260.5	244.3	224.3	201.2	181.3	168.4	164.2	161.7
15°	322.2	309.2	285.3	264.1	236.0	199.6	160.5	134.4	122.5	120.1	117.4
17.5°	335.3	320.9	294.1	264.7	218.0	159.5	117.6	99.9	95.2	96.8	97.2
20°	346.7	332.5	302.7	258.9	185.2	119.7	91.0	86.6	88.3	91.4	91.9
22.5°	358.2	343.6	310.7	243.5	143.2	90.9	82.0	83.0	84.7	87.8	88.3
25°	372.3	357.2	318.1	215.2	107.5	77.3	77.8	79.4	81.2	83.9	84.2
27.5°	388.5	374.3	323.0	178.4	79.7	71.1	72.8	75.2	76.9	79.6	80.1
30°	410.0	396.9	324.6	140.3	66.8	65.5	66.3	69.2	71.7	74.1	74.5
32.5°	430.2	419.2	319.3	105.9	61.9	60.3	60.3	62.0	65.0	67.2	67.7
35°	448.8	441.7	302.3	77.4	58.2	55.5	54.2	54.2	56.1	57.9	58.4
37.5°	473.4	473.1	274.8	61.8	54.6	51.5	48.7	46.6	46.0	46.4	46.6
40°	515.5	515.9	239.0	55.4	51.5	47.4	43.2	39.3	35.7	34.5	34.4
42.5°	581.3	575.3	201.4	52.3	48.9	43.2	36.8	31.6	26.0	24.3	24.2
45°	685.7	650.2	161.5	49.5	46.1	38.4	30.4	23.4	18.9	17.5	17.5
47.5°	837.8	748.6	125.1	46.5	42.4	32.9	23.0	16.9	13.8	13.2	13.3
50°	995.0	845.1	95.9	42.6	37.9	27.2	17.0	12.2	10.5	10.5	10.6
52.5°	1134.5	915.7	74.8	38.5	32.3	21.4	12.9	9.6	8.8	8.6	8.8
55°	1265.1	961.3	57.2	33.7	25.6	15.9	9.8	7.8	7.3	7.0	6.9
57.5°	1391.0	983.9	42.9	27.2	18.6	11.6	7.8	6.6	6.1	5.7	5.6
60°	1474.8	965.5	29.5	20.1	12.9	8.4	6.5	5.7	5.0	4.6	4.5
62.5°	1522.1	915.5	19.0	14.5	9.2	6.2	5.2	4.8	3.9	3.5	3.5
65°	1503.0	832.8	13.3	10.4	6.6	4.6	3.9	3.9	2.8	2.3	2.1
67.5°	1331.9	703.6	10.1	7.7	4.8	3.5	2.9	3.3	1.7	1.1	1.1
69°	1145.9	583.1	8.6	6.4	4.0	2.8	2.5	3.1	1.2	0.8	0.7
70°	996.0	503.0	7.8	5.6	3.3	2.4	2.3	2.9	1.2	0.7	0.5
72.5°	595.9	280.5	6.0	4.0	2.1	1.9	1.9	3.3	1.2	0.7	0.5
75°	240.8	98.8	4.4	2.8	1.6	1.6	2.3	4.3	1.1	0.5	0.4
77.5°	54.6	21.7	2.5	1.7	1.1	1.6	2.7	3.3	0.7	0.3	0.0
80°	13.3	5.3	1.6	1.1	0.7	1.2	2.0	1.9	0.1	0.0	0.0
82.5°	4.4	1.9	0.7	0.5	0.1	0.4	0.9	0.5	0.0	0.0	0.0
85°	1.9	1.1	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
87.5°	1.2	0.4	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)