

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: P348796

Luminaire Tested: **ARCH-N-PA1-40-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-830-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3490 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G1

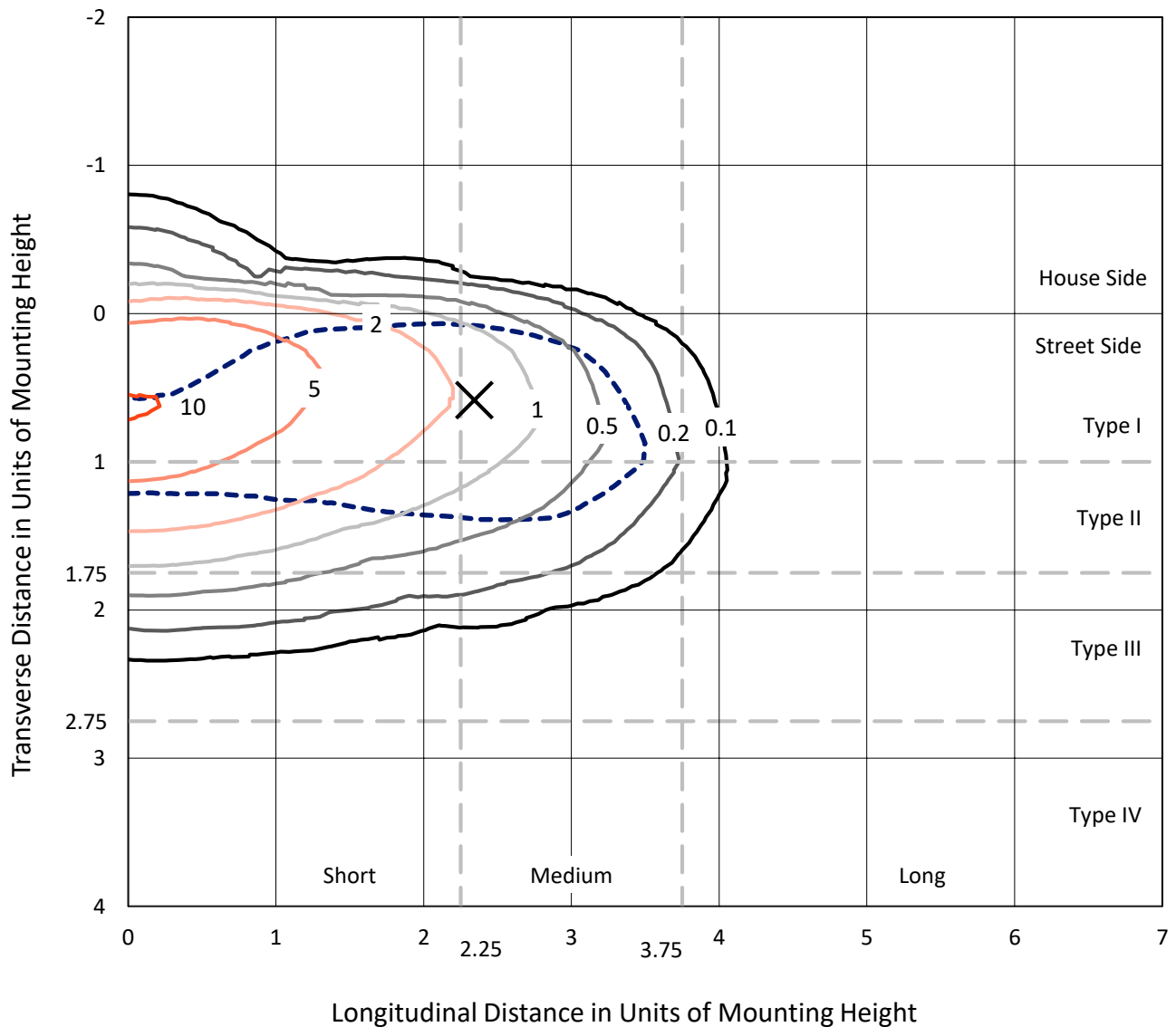
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

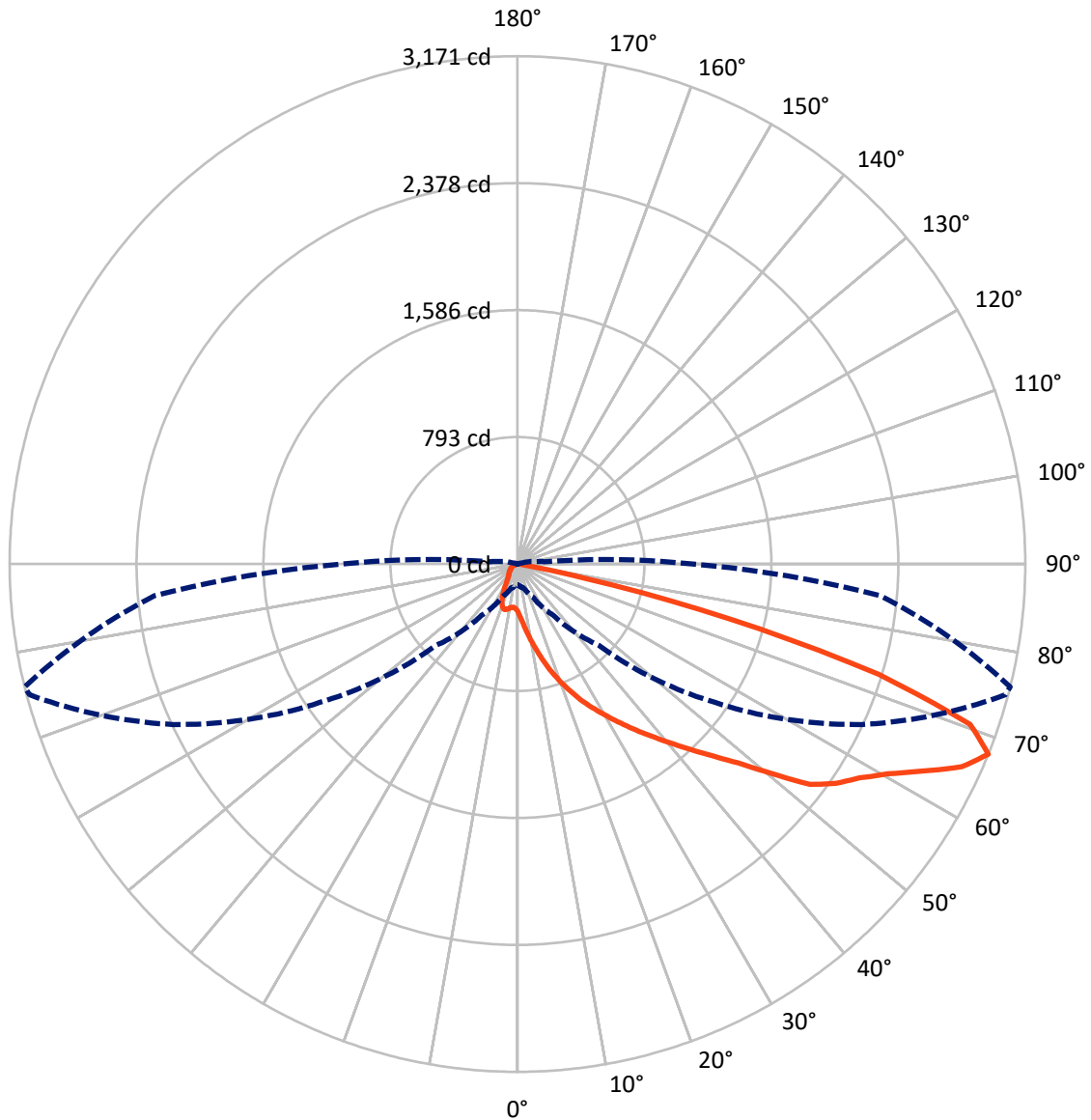
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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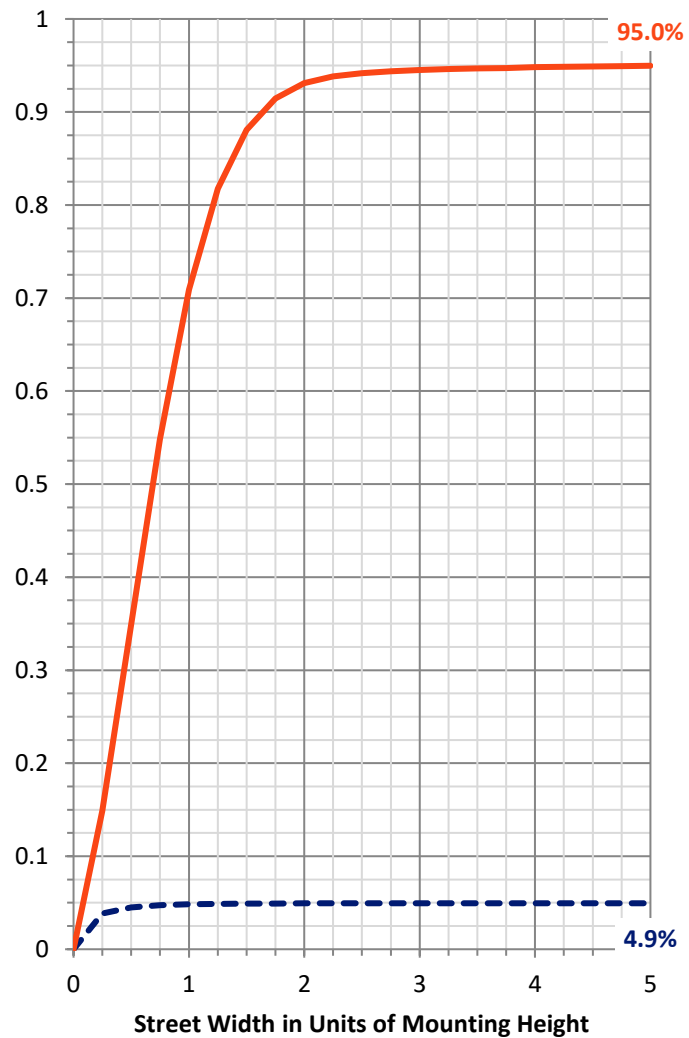
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	173.3	0.0	173.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3316.7	0.0	3316.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	3490.0	0.0	3490.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	1.1
10°-20°	145.9	4.2
20°-30°	296.9	8.5
30°-40°	515.4	14.8
40°-50°	728.2	20.9
50°-60°	825.8	23.7
60°-70°	684.9	19.6
70°-80°	248.1	7.1
80°-90°	8.0	0.2
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°	3490.0	100.0
0°-180°	3490.0	100.0



--- HS — SS

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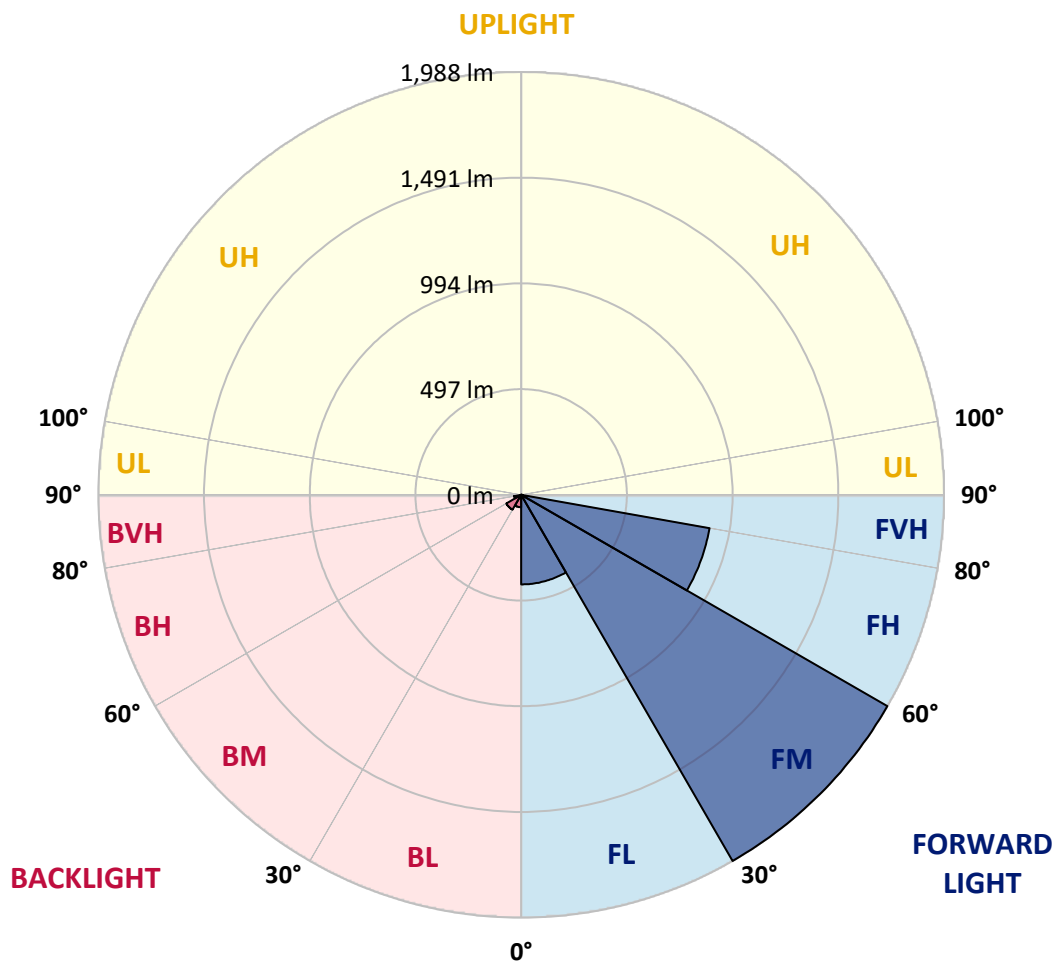
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	421.2	12.1			
FM	(30°-60°)	1988.2	57.0			
FH	(60°-80°)	899.5	25.8			G1/1800
FVH	(80°-90°)	7.8	0.2			G0/10
BL	(0°-30°)	58.4	1.7	B0/110		
BM	(30°-60°)	81.1	2.3	B0/220		
BH	(60°-80°)	33.5	1.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1
2.5°	441.9	432.0	434.3	427.9	416.2	392.4	372.1	352.8	330.3	329.5	311.0
5°	595.9	587.5	586.4	573.4	552.3	511.8	472.4	427.4	377.3	373.6	334.3
7.5°	735.7	729.0	726.5	711.1	671.8	632.3	580.9	514.9	436.4	429.7	365.6
10°	843.0	839.8	840.4	829.4	795.8	759.1	691.7	607.4	503.6	493.2	403.2
12.5°	924.4	925.2	930.7	923.9	905.1	877.9	805.9	706.0	577.9	563.7	446.2
15°	984.2	988.0	998.1	1006.5	1005.1	981.6	915.5	806.2	656.8	641.0	494.1
17.5°	1022.9	1027.2	1041.8	1060.5	1077.6	1072.1	1021.4	902.8	736.6	718.4	545.3
20°	1056.8	1061.9	1077.6	1102.2	1134.2	1141.1	1107.8	996.6	816.3	794.1	598.2
22.5°	1130.4	1130.2	1139.9	1154.2	1184.7	1202.4	1181.3	1083.6	895.0	871.9	652.2
25°	1263.4	1258.4	1255.0	1243.7	1250.4	1261.4	1249.7	1164.9	974.3	950.9	706.9
27.5°	1421.5	1424.6	1397.4	1367.0	1343.4	1332.1	1312.8	1240.3	1050.4	1024.7	760.5
30°	1588.4	1589.3	1557.2	1518.3	1466.5	1423.5	1390.2	1312.4	1128.7	1100.7	812.5
32.5°	1738.9	1732.9	1701.1	1648.2	1582.7	1534.4	1465.1	1392.8	1211.6	1184.5	870.3
35°	1858.1	1851.1	1812.4	1764.2	1696.3	1647.7	1564.4	1473.1	1298.7	1272.3	928.2
37.5°	1945.3	1937.0	1897.3	1847.7	1789.2	1760.9	1679.5	1560.4	1393.9	1365.4	989.2
40°	1975.6	1968.4	1943.5	1907.2	1860.1	1853.7	1801.7	1660.9	1497.4	1467.1	1058.4
42.5°	1957.5	1950.5	1941.6	1929.4	1909.8	1915.9	1917.0	1775.4	1612.4	1582.6	1134.7
45°	1886.0	1879.7	1888.9	1906.8	1931.1	1961.4	2022.2	1898.5	1740.8	1709.0	1222.9
47.5°	1780.6	1776.0	1801.4	1846.0	1917.2	2000.7	2118.4	2027.9	1885.0	1855.5	1333.0
50°	1630.7	1630.0	1680.7	1762.2	1871.6	2019.6	2217.8	2175.0	2085.4	2054.3	1486.1
52.5°	1397.4	1398.9	1498.8	1629.2	1791.6	2006.8	2281.7	2364.0	2318.4	2286.2	1618.7
55°	1175.2	1184.4	1255.2	1443.3	1669.0	1959.1	2303.7	2452.2	2447.0	2416.4	1692.4
57.5°	957.6	974.3	1042.5	1218.2	1489.9	1849.1	2291.7	2490.5	2542.8	2519.4	1789.6
60°	721.8	729.4	808.0	972.3	1260.1	1648.5	2204.0	2511.3	2673.7	2657.4	1930.8
62.5°	459.2	478.3	548.1	706.5	981.1	1369.9	2056.3	2510.9	2837.4	2846.3	2112.9
65°	241.9	264.2	301.3	437.8	674.2	1058.7	1834.1	2487.4	3038.4	3050.8	2255.3
67.5°	130.4	136.9	156.4	227.2	391.0	717.2	1507.6	2371.2	3154.7	3171.1	2275.1
70°	95.4	98.9	106.3	125.7	196.8	416.6	1100.1	2107.7	3004.7	2998.6	2021.4
72.5°	73.2	78.8	84.3	92.1	113.2	222.3	684.9	1650.5	2397.5	2357.1	1511.0
75°	57.8	58.7	66.5	73.6	84.9	126.6	304.2	961.3	1463.3	1367.7	783.6
77.5°	46.2	46.8	51.4	57.5	68.2	83.2	94.2	378.2	467.2	416.9	170.0
80°	27.4	28.9	38.2	44.3	56.6	52.5	34.4	82.1	72.9	66.1	28.6
82.5°	15.3	16.5	21.6	35.0	39.5	25.1	17.1	22.2	17.1	16.7	8.1
85°	0.0	0.8	13.9	21.7	16.1	5.5	7.2	7.3	5.0	4.7	3.2
87.5°	0.0	0.0	4.3	4.1	0.6	0.9	1.7	2.4	2.0	2.0	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°	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1
2.5°	301.9	293.6	278.0	262.7	249.9	239.3	229.8	226.0	223.0	222.5	220.1
5°	315.3	298.7	268.8	244.4	228.0	216.4	206.4	200.3	195.6	193.7	192.1
7.5°	335.7	310.4	267.6	239.5	219.9	200.3	182.0	162.1	149.7	145.0	142.2
10°	360.4	326.0	272.2	238.1	203.8	162.6	132.1	106.9	96.6	93.3	92.4
12.5°	389.3	345.4	280.1	229.5	169.6	115.5	91.1	82.6	80.3	79.2	79.2
15°	422.5	366.7	285.8	204.8	125.4	87.3	78.9	74.9	72.5	71.1	71.3
17.5°	456.5	387.5	283.1	168.8	92.5	77.7	71.4	67.1	63.8	62.4	62.1
20°	490.7	406.8	267.8	125.7	78.3	70.5	63.5	58.7	55.4	54.0	53.7
22.5°	526.2	423.1	240.8	92.2	70.3	62.5	55.7	50.9	47.7	46.5	45.9
25°	560.8	436.4	203.2	74.6	62.9	55.1	48.5	44.0	41.1	39.9	39.8
27.5°	593.0	444.8	159.6	65.9	56.3	48.3	42.4	38.4	35.9	35.0	34.9
30°	622.1	445.6	118.1	59.5	50.5	42.5	37.0	33.5	31.3	30.4	30.1
32.5°	651.4	439.2	85.9	53.7	45.1	37.5	32.1	29.4	27.8	27.1	27.1
35°	679.1	424.4	67.0	48.6	39.9	32.6	28.3	26.3	25.4	24.6	24.6
37.5°	706.2	403.1	56.9	44.2	35.0	28.4	24.9	23.7	22.9	22.2	22.2
40°	733.7	376.3	51.7	40.1	31.0	25.2	22.2	21.1	20.3	19.7	19.6
42.5°	767.5	345.4	48.3	36.2	27.5	22.3	19.6	18.4	17.7	17.1	16.8
45°	806.7	318.8	45.6	32.4	24.6	19.9	17.0	15.8	14.8	14.1	13.9
47.5°	863.1	299.6	41.9	28.3	21.9	17.3	14.7	13.3	11.9	11.2	11.0
50°	935.1	283.7	37.2	24.6	19.1	14.7	12.2	10.6	9.3	8.6	8.6
52.5°	970.9	262.9	32.9	21.4	16.1	12.4	9.9	8.0	7.3	6.6	6.6
55°	985.3	247.0	28.6	18.2	13.3	10.2	7.8	6.1	5.7	5.2	5.0
57.5°	1025.6	242.4	24.9	15.4	11.0	8.1	6.0	4.6	4.3	3.7	3.7
60°	1090.6	244.7	21.6	13.2	8.9	6.3	4.4	3.5	3.2	2.6	2.6
62.5°	1160.8	241.8	18.2	11.3	6.9	4.6	3.1	2.6	2.6	1.5	1.4
65°	1174.3	215.3	15.6	9.3	5.4	3.4	2.0	1.7	2.3	0.3	0.0
67.5°	1089.9	167.0	13.5	7.2	4.0	2.6	1.5	0.8	2.0	0.0	0.0
70°	871.5	106.1	10.9	5.2	3.1	2.1	1.2	0.3	1.5	0.0	0.0
72.5°	616.3	61.6	8.6	3.7	2.6	1.7	0.9	0.0	0.9	0.0	0.0
75°	311.7	32.9	5.4	2.8	2.0	1.2	0.6	0.0	0.2	0.0	0.0
77.5°	67.4	15.3	3.4	2.0	1.4	0.8	0.3	0.0	0.0	0.0	0.0
80°	14.7	6.7	2.1	1.2	0.8	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	5.4	3.5	1.1	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	1.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.6	0.2	0.2	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)