

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: P348536

Luminaire Tested: **ARCH-N-PA1-30-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
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-T2R
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: 4034 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

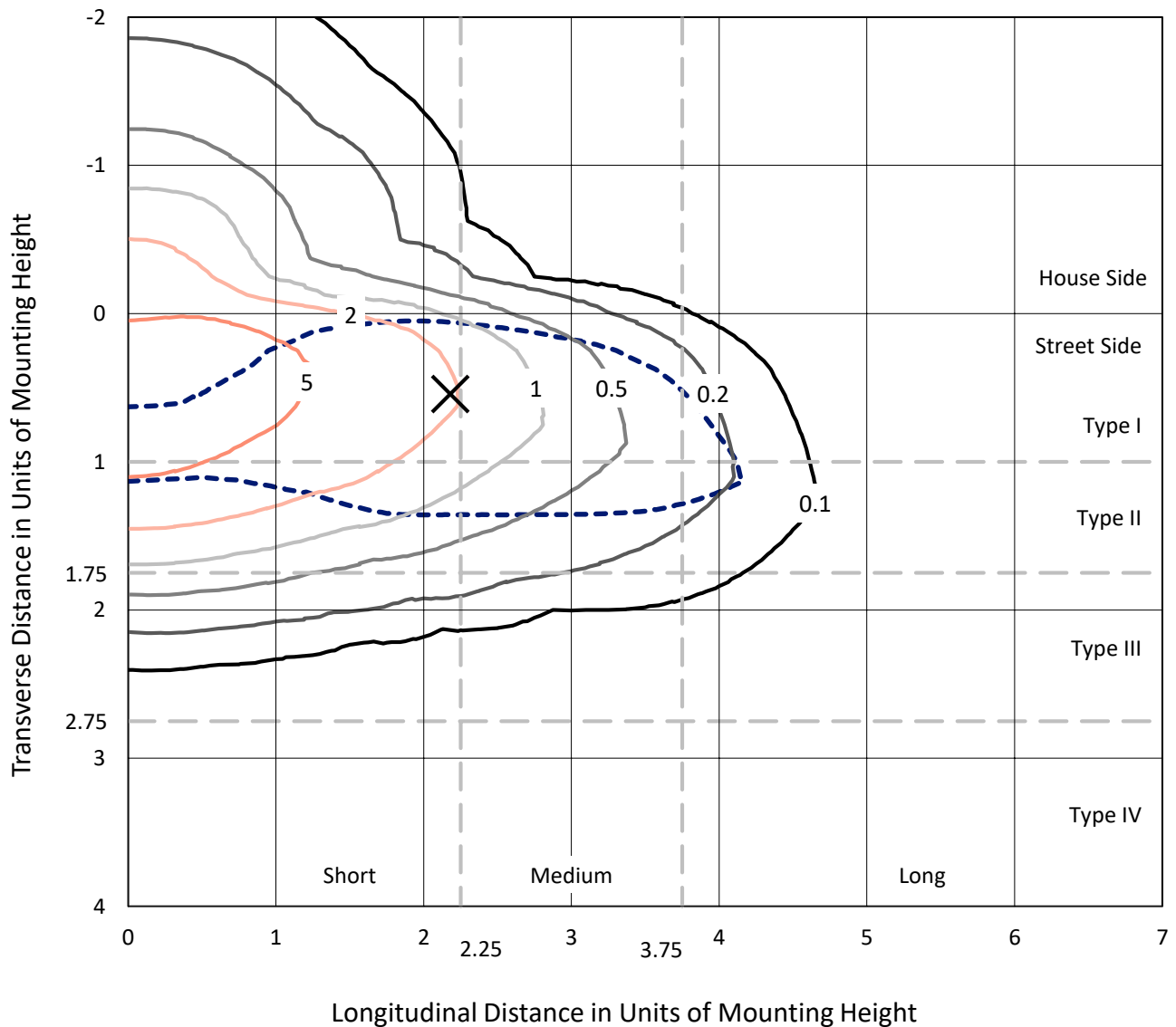
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348536
 CATALOG NUMBER: ARCH-N-PA1-30-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

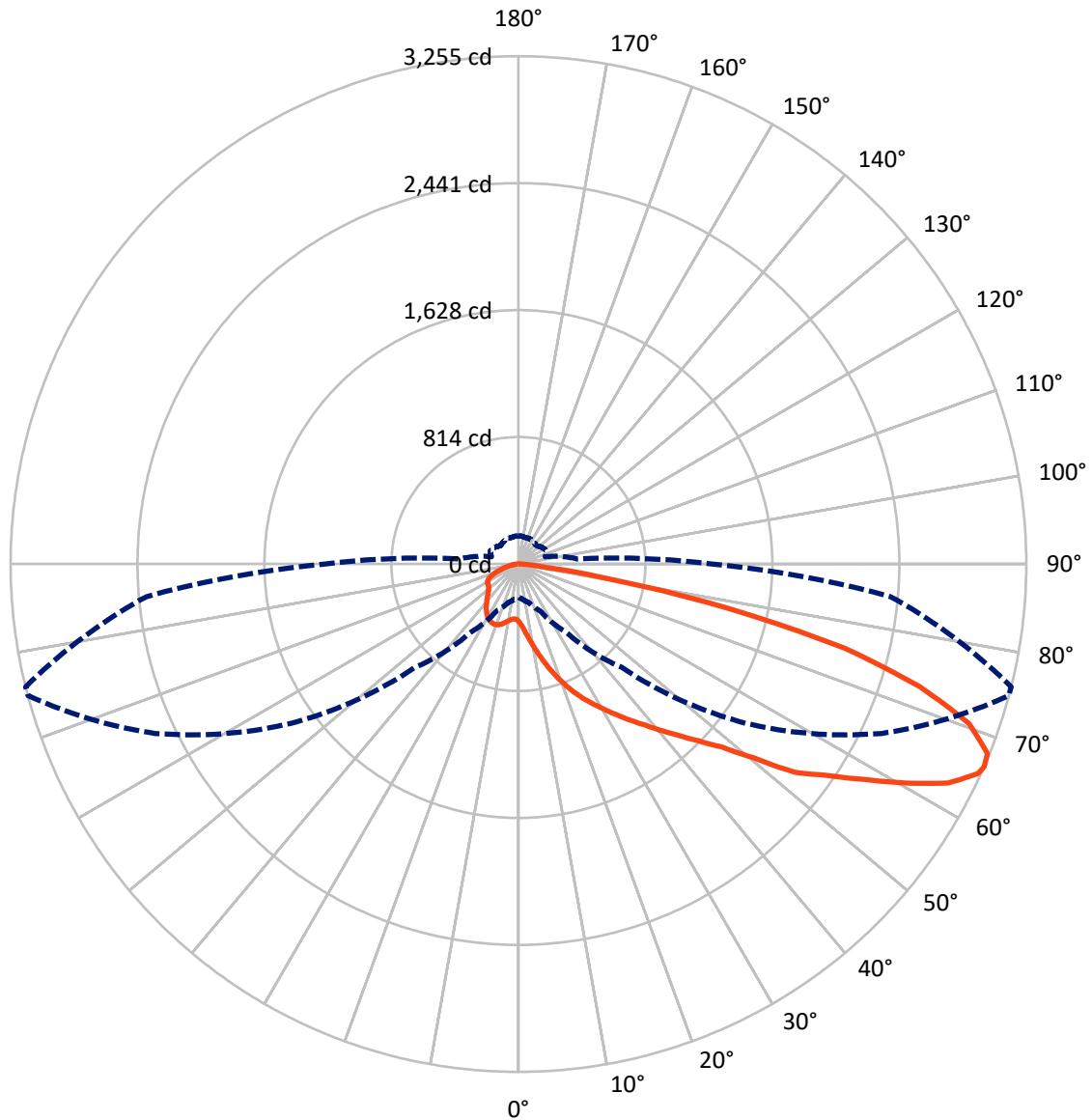
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P348536
CATALOG NUMBER: ARCH-N-PA1-30-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P348536

CATALOG NUMBER: ARCH-N-PA1-30-730-U-T2R

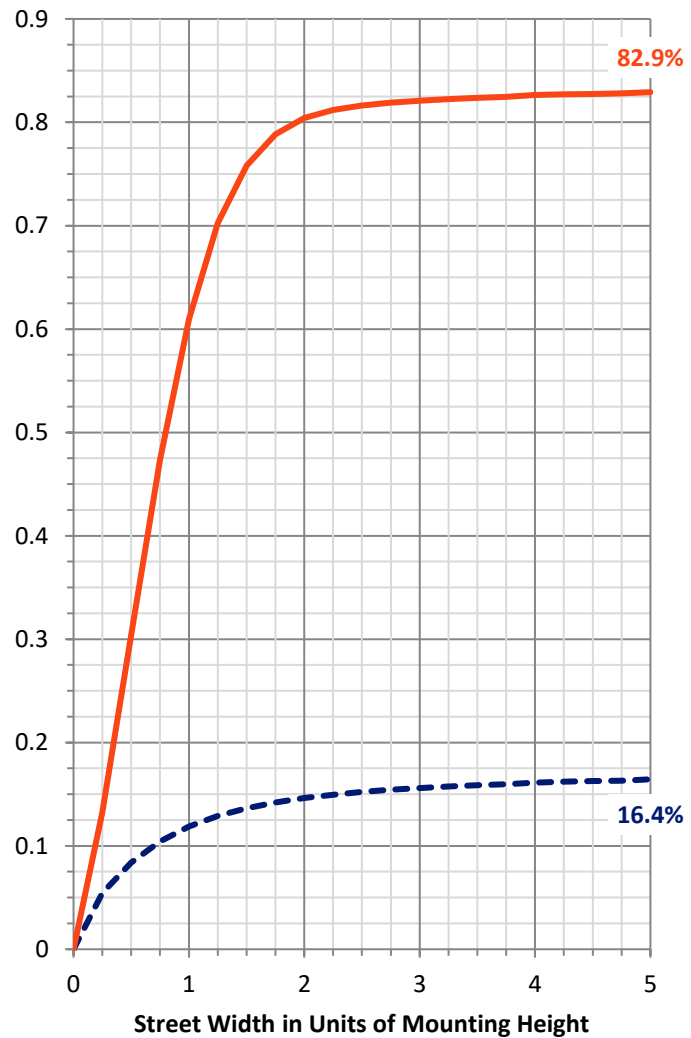
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	678.8	0.0	678.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3355.2	0.0	3355.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	4034.0	0.0	4034.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.1
10°-20°	175.9	4.4
20°-30°	341.9	8.5
30°-40°	558.0	13.8
40°-50°	762.3	18.9
50°-60°	888.0	22.0
60°-70°	796.1	19.7
70°-80°	402.3	10.0
80°-90°	65.0	1.6
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°	4034.0	100.0
0°-180°	4034.0	100.0



--- HS — SS

REPORT NUMBER: P348536

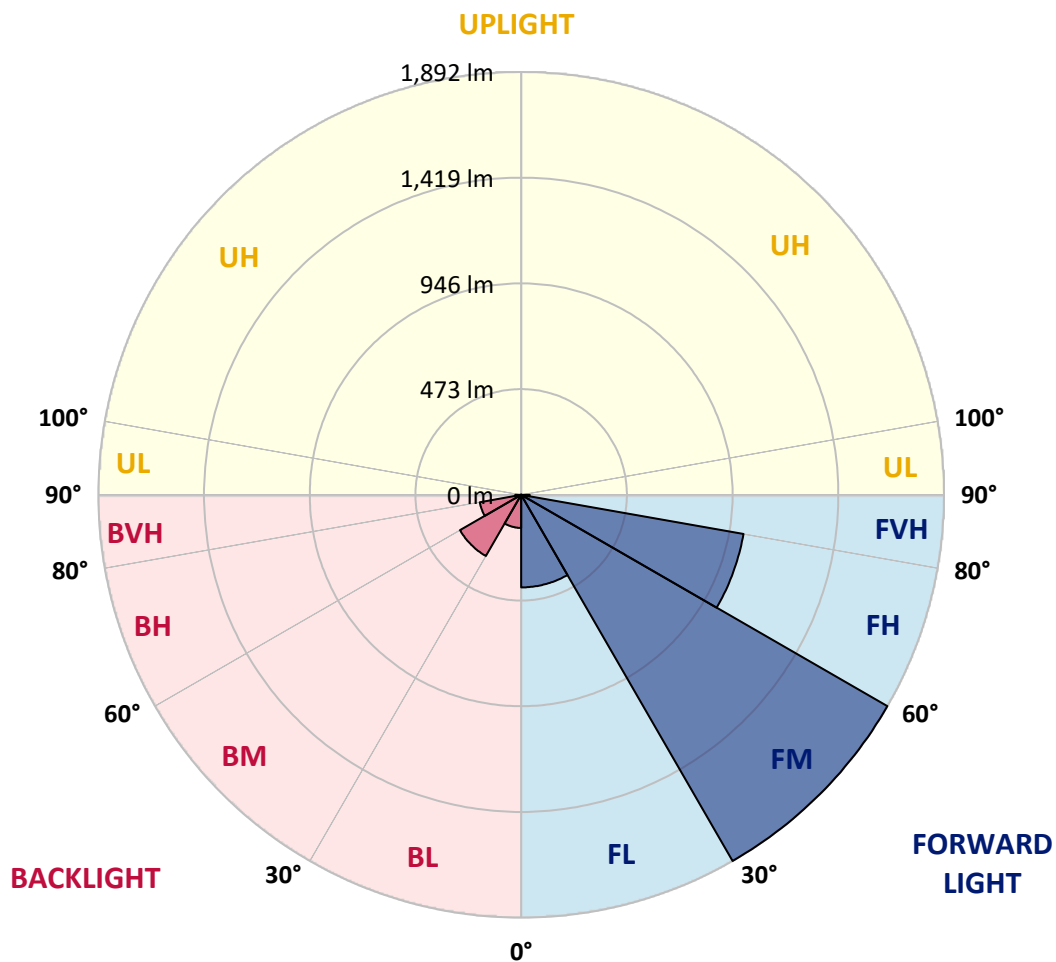
CATALOG NUMBER: ARCH-N-PA1-30-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.3	10.3			
FM (30°-60°)	1892.2	46.9			
FH (60°-80°)	1010.3	25.0			G1/1800
FVH (80°-90°)	38.4	1.0			G1/100
BL (0°-30°)	148.0	3.7	B1/500		
BM (30°-60°)	316.1	7.8	B1/1000		
BH (60°-80°)	188.1	4.7	B1/500		G1/500
BVH (80°-90°)	26.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P348536

CATALOG NUMBER: ARCH-N-PA1-30-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4
2.5°	489.0	481.7	481.0	470.1	467.7	447.0	431.8	415.9	397.8	394.3	380.0
5°	628.2	627.5	618.1	600.4	586.6	551.2	516.3	479.3	438.8	432.2	400.2
7.5°	753.4	752.3	745.0	726.0	706.0	662.6	612.7	556.0	490.3	480.6	427.4
10°	848.4	848.0	845.5	831.6	814.6	772.9	717.9	640.5	550.1	536.8	461.5
12.5°	921.8	922.6	924.3	919.3	911.3	875.8	819.4	730.1	613.9	600.8	499.5
15°	971.5	974.0	982.5	989.5	993.7	971.9	917.3	821.7	685.4	669.7	541.5
17.5°	996.6	999.3	1014.0	1035.1	1054.5	1052.3	1008.9	909.1	754.0	738.8	586.7
20°	1018.2	1020.3	1036.7	1062.0	1096.4	1111.6	1087.2	993.2	829.2	811.2	634.6
22.5°	1080.9	1083.5	1088.5	1102.9	1133.3	1161.2	1149.4	1072.7	898.1	881.3	680.1
25°	1202.0	1205.2	1194.5	1182.3	1188.0	1207.5	1209.7	1145.3	968.0	948.9	729.0
27.5°	1347.9	1352.4	1334.2	1302.8	1275.4	1267.9	1265.3	1204.7	1034.7	1012.6	777.3
30°	1490.7	1498.5	1474.8	1434.1	1383.9	1348.5	1322.4	1263.0	1100.4	1079.3	822.9
32.5°	1630.3	1627.1	1592.7	1553.0	1494.1	1449.9	1386.6	1325.4	1174.3	1150.1	868.3
35°	1725.8	1726.9	1695.0	1647.9	1591.8	1557.8	1472.6	1392.8	1249.8	1227.5	919.8
37.5°	1807.2	1802.1	1766.0	1722.0	1673.7	1659.1	1573.3	1467.0	1331.6	1307.2	974.5
40°	1834.3	1828.4	1804.7	1773.1	1734.3	1733.1	1684.3	1551.1	1424.0	1399.9	1036.3
42.5°	1817.9	1810.3	1800.6	1792.0	1780.1	1785.6	1788.7	1649.7	1525.6	1498.6	1107.8
45°	1757.2	1745.8	1752.7	1771.4	1797.3	1828.3	1882.9	1758.8	1639.4	1616.8	1191.7
47.5°	1663.9	1653.7	1675.0	1715.2	1785.6	1863.9	1972.1	1879.4	1775.3	1752.8	1311.3
50°	1532.7	1535.8	1566.3	1639.3	1745.7	1880.3	2081.9	2038.9	1972.8	1951.8	1474.4
52.5°	1317.5	1318.0	1404.0	1523.8	1675.0	1871.8	2142.9	2242.8	2242.4	2217.1	1629.7
55°	1117.5	1129.7	1197.8	1357.0	1560.5	1837.9	2185.4	2342.0	2419.5	2389.8	1774.5
57.5°	922.2	929.3	993.8	1153.8	1397.2	1747.3	2229.1	2461.0	2623.5	2604.8	1954.4
60°	700.1	711.0	777.7	925.5	1188.2	1586.7	2233.2	2585.2	2867.5	2848.6	2155.3
62.5°	454.4	473.3	535.7	674.2	935.4	1355.7	2137.9	2666.4	3098.6	3091.9	2333.6
65°	261.2	275.4	318.8	425.6	645.3	1065.6	1911.3	2635.2	3240.9	3237.1	2400.3
66°	213.4	222.3	255.5	332.7	532.5	935.8	1779.5	2569.3	3255.0	3255.2	2392.7
67.5°	170.6	174.6	189.5	238.2	392.9	741.7	1544.1	2424.0	3237.5	3242.3	2343.2
70°	141.2	143.2	147.9	159.7	214.5	447.3	1096.0	2046.4	3061.5	3065.2	2150.3
72.5°	126.7	127.9	129.7	131.3	151.3	249.9	669.4	1637.1	2684.2	2689.0	1856.2
75°	114.8	115.4	115.2	115.3	127.0	159.3	345.9	1222.3	2170.4	2160.8	1422.0
77.5°	100.8	101.5	100.1	100.4	112.3	122.4	172.1	855.7	1464.7	1397.0	801.2
80°	85.2	85.7	85.2	86.1	97.8	92.4	100.1	481.4	647.6	612.6	284.9
82.5°	64.4	66.7	68.3	72.2	80.5	65.7	67.0	187.5	197.2	187.8	87.4
85°	28.2	34.4	51.5	55.2	60.5	39.4	44.0	76.4	80.3	77.8	31.8
87.5°	7.4	8.1	25.5	32.0	33.6	17.8	22.9	34.8	36.7	34.8	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348536

CATALOG NUMBER: ARCH-N-PA1-30-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4
2.5°	372.5	365.8	353.7	343.1	335.0	329.5	324.0	321.3	319.6	318.0	318.3
5°	384.4	370.9	350.2	335.5	327.3	322.1	319.4	318.3	317.6	315.9	315.9
7.5°	402.4	383.2	354.7	339.6	333.2	329.2	327.6	327.0	326.2	324.3	324.6
10°	425.0	398.1	364.1	349.5	343.6	339.2	336.9	336.1	334.6	332.4	332.7
12.5°	451.5	416.6	376.6	361.3	354.2	348.3	344.4	342.1	339.5	336.6	336.8
15°	480.6	436.7	390.0	371.8	362.1	353.9	347.7	343.7	339.6	336.1	335.9
17.5°	510.0	456.2	400.3	377.6	364.4	353.6	345.3	339.1	334.0	329.6	329.2
20°	541.8	473.7	406.1	377.0	360.0	347.2	336.1	328.4	322.8	318.4	317.7
22.5°	574.1	490.1	407.0	371.4	350.3	334.6	322.9	314.4	308.7	304.2	302.5
25°	603.7	502.9	403.0	360.6	336.8	319.8	308.4	299.8	295.1	289.8	288.1
27.5°	630.7	511.8	395.1	346.8	321.6	304.9	294.2	286.8	281.7	277.6	276.2
30°	654.9	516.6	382.1	330.3	305.9	290.7	281.7	276.6	272.3	267.1	266.1
32.5°	677.9	516.6	365.4	312.4	290.5	278.3	272.9	269.8	264.9	259.8	258.4
35°	700.9	513.4	345.7	293.6	276.2	269.4	269.1	265.4	257.9	251.0	249.2
37.5°	725.1	507.0	323.5	276.1	264.6	265.4	267.7	259.5	248.8	239.1	236.5
40°	752.5	498.1	300.5	260.9	254.9	263.6	264.0	251.0	230.2	221.3	219.0
42.5°	784.7	489.2	279.1	247.5	247.2	258.3	257.1	232.7	220.2	215.7	214.5
45°	827.0	484.1	258.8	234.7	241.2	249.7	245.1	222.5	217.3	214.7	213.6
47.5°	893.7	486.7	240.2	224.6	235.1	241.0	223.0	218.4	214.7	211.6	210.5
50°	977.3	485.2	225.1	217.6	228.3	232.0	213.0	213.1	211.2	207.6	206.0
52.5°	1040.1	473.4	215.4	213.6	222.3	216.0	206.7	207.9	206.9	201.7	199.9
55°	1100.8	463.3	210.5	212.1	217.9	196.0	199.3	202.3	201.3	196.2	195.4
57.5°	1176.3	461.4	207.5	212.5	214.2	186.0	192.1	196.1	195.4	193.2	192.8
60°	1268.7	461.9	204.7	213.2	210.1	178.6	185.4	190.5	190.9	190.5	190.2
62.5°	1319.5	447.0	197.9	211.3	202.8	172.1	178.4	185.8	186.0	186.8	186.7
65°	1276.4	402.4	185.2	204.6	190.6	166.8	172.4	180.5	178.4	182.1	182.1
66°	1234.5	376.6	178.9	200.2	185.4	164.8	170.5	177.8	175.2	180.2	180.2
67.5°	1148.9	333.2	167.5	190.9	178.0	161.9	168.3	173.2	169.7	177.2	176.7
70°	992.5	257.7	144.6	169.8	165.8	157.6	165.3	164.2	159.0	170.5	168.3
72.5°	836.8	195.8	116.1	142.2	147.4	152.3	161.1	152.7	146.1	154.2	149.4
75°	649.3	147.2	91.8	110.5	124.5	143.9	156.0	139.4	130.0	129.1	126.5
77.5°	351.0	101.1	72.7	84.4	98.9	133.5	152.6	125.2	110.9	107.6	105.6
80°	139.0	65.7	52.9	64.0	69.2	118.5	144.3	108.6	91.5	88.2	85.0
82.5°	57.4	38.9	34.1	42.9	45.1	101.3	129.6	89.0	70.7	97.8	103.8
85°	24.7	21.4	20.3	22.2	25.5	71.1	103.1	67.9	76.3	68.1	54.1
87.5°	7.4	9.0	8.6	8.5	9.3	17.0	54.9	37.8	56.0	21.2	15.9
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)