

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: P348649

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
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
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: 5045 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

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

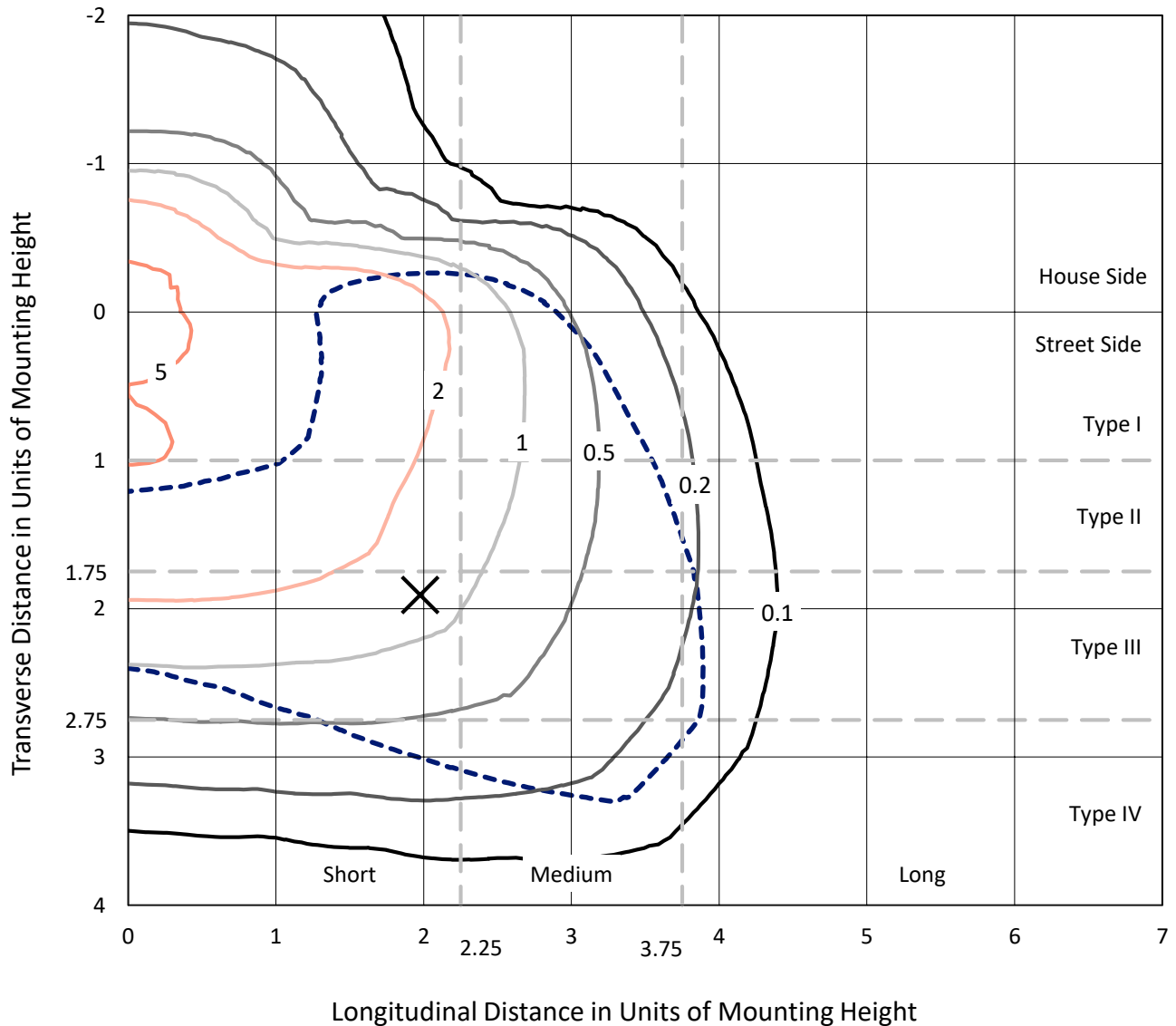


REPORT NUMBER: P348649

CATALOG NUMBER: ARCH-N-PA1-40-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

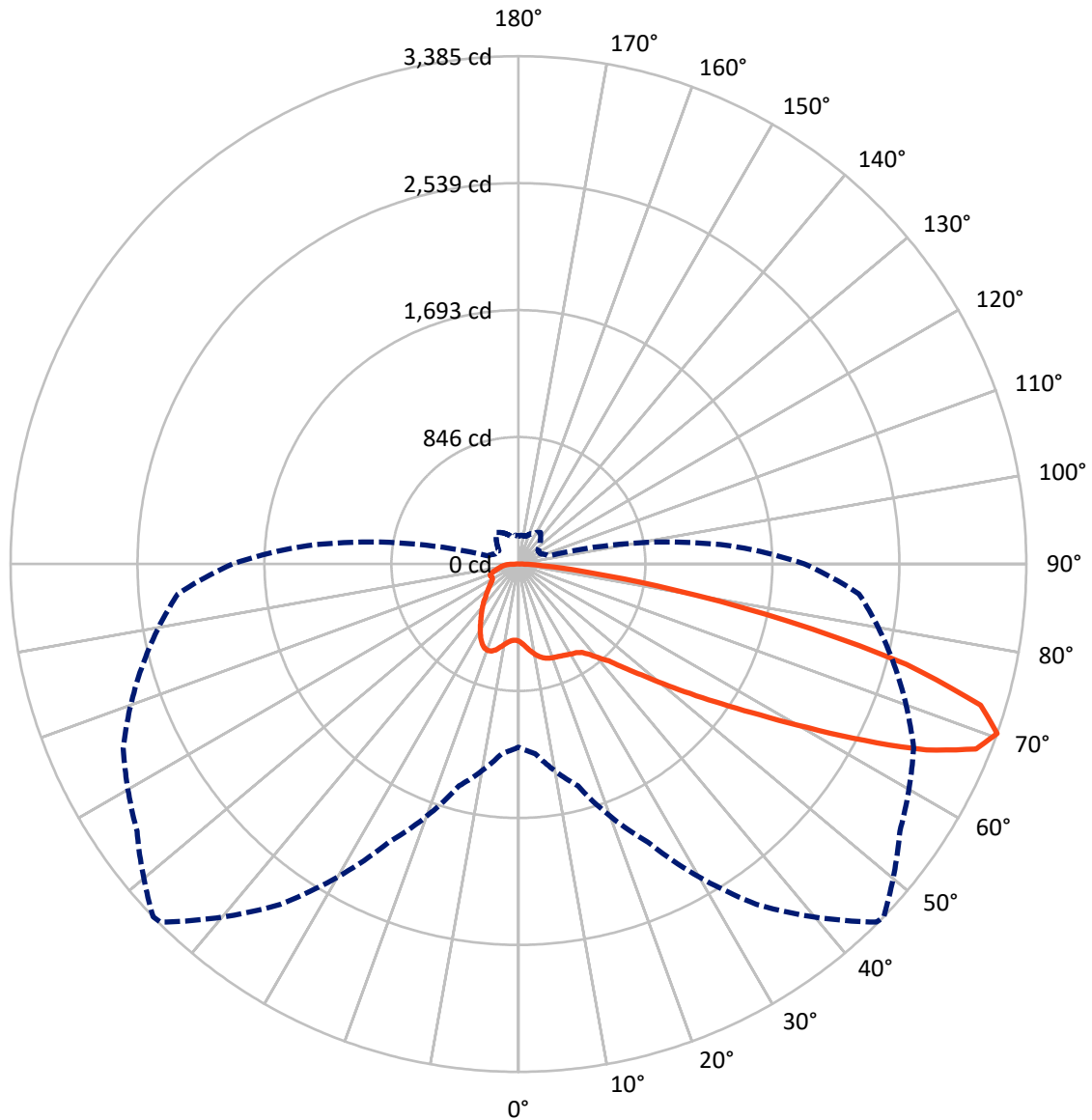


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P348649

CATALOG NUMBER: ARCH-N-PA1-40-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P348649

CATALOG NUMBER: ARCH-N-PA1-40-730-U-T4W

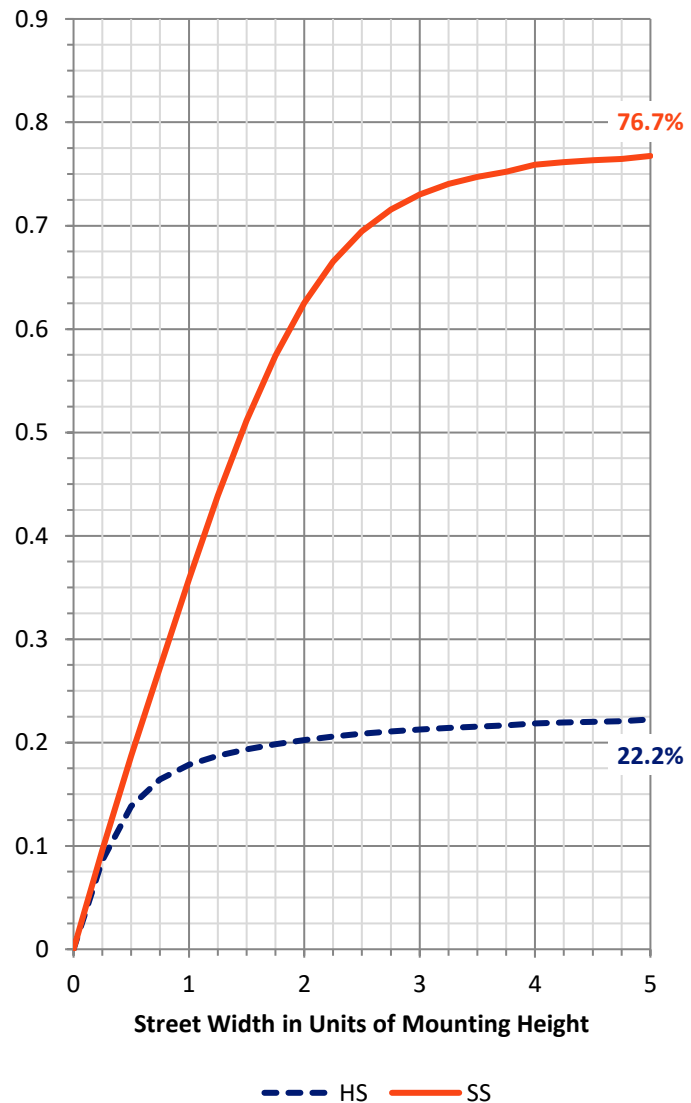
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1156.3	0.0	1156.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3888.7	0.0	3888.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	5045.0	0.0	5045.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	1.0
10°-20°	174.6	3.5
20°-30°	291.1	5.8
30°-40°	413.1	8.2
40°-50°	607.6	12.0
50°-60°	1028.9	20.4
60°-70°	1460.6	29.0
70°-80°	887.3	17.6
80°-90°	129.5	2.6
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°	5045.0	100.0
0°-180°	5045.0	100.0



REPORT NUMBER: P348649

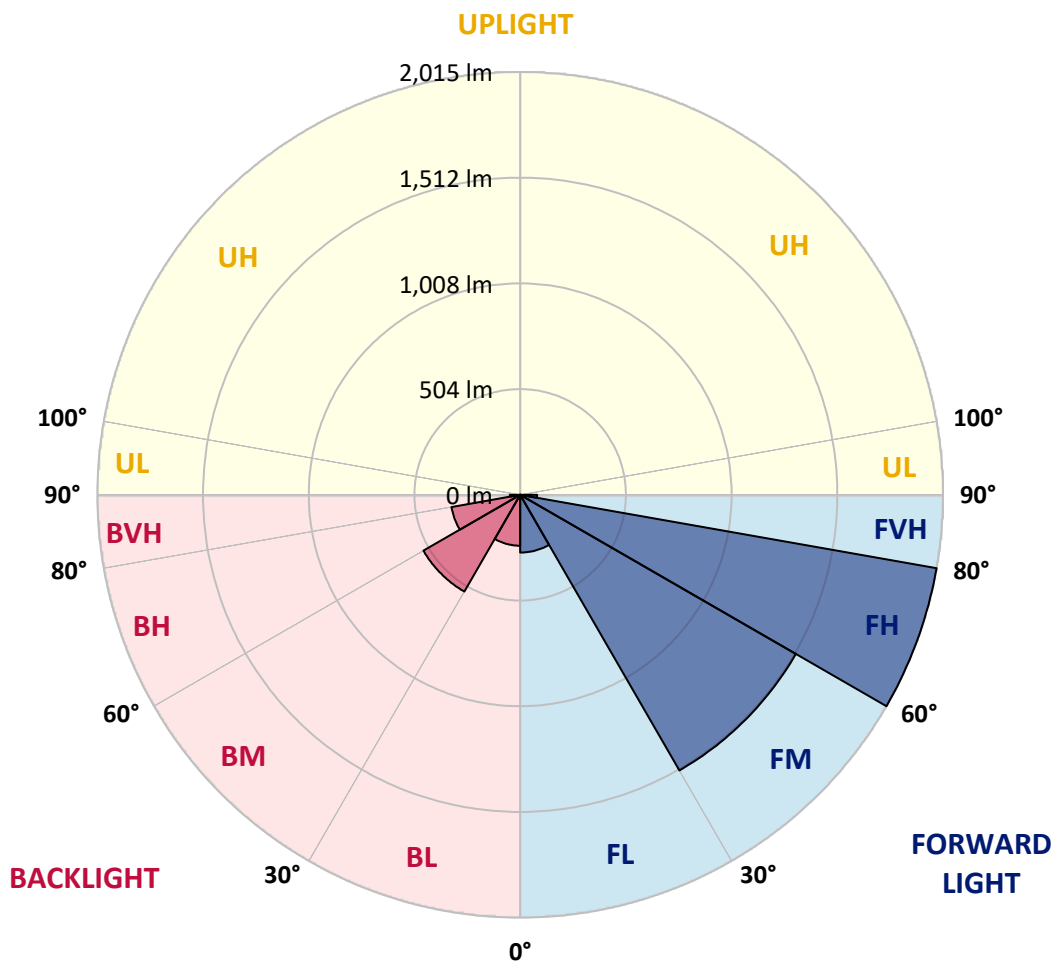
CATALOG NUMBER: ARCH-N-PA1-40-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.3	5.5			
FM	(30°-60°)	1517.3	30.1			
FH	(60°-80°)	2015.4	39.9			G2/5000
FVH	(80°-90°)	80.7	1.6			G1/100
BL	(0°-30°)	242.8	4.8	B1/500		
BM	(30°-60°)	532.3	10.6	B1/1000		
BH	(60°-80°)	332.4	6.6	B1/500		G1/500
BVH	(80°-90°)	48.8	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P348649

CATALOG NUMBER: ARCH-N-PA1-40-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
2.5°	539.7	540.1	540.7	539.0	534.2	532.8	532.3	527.3	524.0	519.2	515.0
5°	582.9	583.2	582.2	577.4	566.6	558.7	558.0	546.6	536.3	525.2	516.9
7.5°	627.9	628.5	625.2	616.0	601.0	587.2	586.3	570.8	555.1	538.3	525.9
10°	667.8	665.7	660.4	647.6	629.8	612.9	612.2	596.0	577.9	557.7	541.1
12.5°	694.4	692.7	685.8	670.2	650.7	635.2	633.8	618.8	601.2	579.1	559.2
15°	709.1	710.3	701.0	683.4	664.4	651.2	650.0	639.3	623.6	601.3	578.6
17.5°	711.0	712.0	703.0	685.6	670.1	661.1	660.6	653.5	642.1	620.7	596.9
20°	699.9	700.6	693.2	678.9	668.7	665.9	665.7	662.6	654.2	635.2	612.1
22.5°	683.9	684.4	679.0	668.7	665.2	669.5	670.8	669.5	663.5	645.7	624.0
25°	679.9	679.6	674.0	663.5	666.4	675.6	677.1	677.7	673.5	658.0	639.2
27.5°	699.1	697.9	687.3	670.4	672.3	683.4	685.4	690.4	687.8	674.2	656.4
30°	754.5	752.4	730.8	696.7	687.3	693.0	695.6	703.6	704.1	692.7	679.4
32.5°	848.1	845.5	806.8	745.7	712.7	702.9	705.3	717.2	723.6	714.8	700.5
35°	966.3	963.4	912.6	829.1	755.2	721.7	723.4	732.9	745.7	733.3	714.3
37.5°	1089.6	1082.5	1033.7	927.1	822.7	761.9	761.9	763.1	769.2	743.3	730.5
40°	1212.2	1205.1	1160.9	1042.5	910.1	825.3	821.3	794.5	789.7	767.4	763.1
42.5°	1326.1	1324.1	1298.0	1172.8	1012.6	887.6	882.1	836.7	837.7	823.9	824.1
45°	1447.3	1447.3	1426.1	1304.4	1132.1	987.7	982.2	915.4	925.8	919.4	934.7
47.5°	1546.3	1549.4	1546.4	1441.5	1271.1	1115.0	1105.0	1024.5	1053.5	1075.5	1120.2
50°	1647.3	1652.1	1652.6	1591.9	1439.1	1266.2	1254.8	1169.4	1234.1	1297.0	1384.8
52.5°	1793.9	1804.7	1761.4	1741.9	1644.9	1445.8	1434.6	1355.7	1463.7	1552.0	1703.4
55°	1929.7	1920.2	1889.3	1901.4	1865.2	1650.2	1641.8	1572.5	1719.6	1834.3	2030.9
57.5°	2003.3	2002.6	2033.7	2085.5	2102.7	1902.3	1895.2	1827.9	2008.1	2094.3	2338.4
60°	2089.6	2090.8	2167.8	2285.4	2356.5	2216.2	2213.1	2162.0	2288.3	2337.0	2579.6
62.5°	2101.7	2123.5	2256.1	2458.4	2594.1	2582.9	2589.8	2462.9	2539.0	2530.7	2759.7
65°	1962.7	1991.4	2231.4	2510.7	2830.3	2984.0	2990.3	2765.5	2736.7	2696.3	2824.1
67.5°	1677.8	1720.3	1981.0	2396.9	2908.2	3280.4	3289.4	3000.2	2900.7	2752.4	2669.0
70°	1221.0	1268.1	1530.6	2047.1	2769.3	3375.2	3385.4	3103.9	2907.0	2592.7	2278.5
72.5°	737.6	774.5	990.9	1507.1	2337.4	3202.5	3220.7	2972.4	2654.0	2196.1	1682.5
75°	323.9	348.1	479.1	868.4	1673.3	2649.7	2672.3	2544.2	2156.4	1596.0	994.5
77.5°	137.9	144.9	196.5	377.2	946.0	1810.6	1841.7	1859.0	1463.1	868.4	420.2
80°	86.0	88.7	111.2	170.8	442.7	1016.9	1050.4	1093.8	726.5	319.2	146.8
82.5°	52.3	55.4	73.9	103.2	230.5	461.0	477.0	507.6	281.9	137.9	76.0
85°	31.4	33.7	45.2	65.3	131.2	181.3	181.1	200.3	132.8	88.7	40.1
87.5°	15.0	16.7	24.2	33.8	66.1	68.0	63.7	72.2	80.6	58.2	20.2
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: P348649

CATALOG NUMBER: ARCH-N-PA1-40-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
2.5°	513.6	513.0	510.7	509.0	508.6	507.6	506.7	507.3	507.9	508.1	508.1
5°	513.5	511.6	508.6	507.4	509.0	511.1	513.6	517.1	519.2	520.7	521.8
7.5°	521.8	518.1	514.9	514.2	517.3	522.8	528.7	535.9	540.9	544.4	545.1
10°	535.6	531.1	527.8	528.5	534.0	542.0	550.2	559.6	567.2	571.8	572.2
12.5°	551.5	547.1	544.0	547.0	556.1	565.8	574.4	582.5	589.4	594.1	594.1
15°	569.8	566.6	563.0	569.8	582.2	590.8	594.4	598.4	602.2	605.7	605.0
17.5°	587.4	584.4	582.5	590.5	603.4	607.4	605.0	602.0	602.0	603.9	604.3
20°	602.6	600.0	601.2	608.9	615.7	611.5	602.6	593.2	589.4	590.5	591.5
22.5°	615.9	614.6	618.3	621.9	617.1	602.6	586.0	573.4	568.7	568.4	568.7
25°	631.4	631.2	635.7	629.1	607.7	581.0	558.7	546.4	543.9	545.9	549.4
27.5°	650.7	652.6	654.9	630.9	588.7	548.3	525.7	517.3	519.9	524.9	528.1
30°	675.4	680.6	675.8	626.6	561.5	511.1	489.5	487.1	494.1	501.2	504.7
32.5°	699.4	707.5	695.8	615.3	526.2	471.5	454.8	454.1	462.7	469.6	474.4
35°	718.8	734.8	710.8	593.1	485.5	435.1	422.8	418.2	421.3	429.4	434.9
37.5°	744.0	770.7	721.2	559.0	441.3	405.0	390.7	380.0	377.2	380.5	383.3
40°	790.1	825.5	726.0	511.6	398.1	375.0	360.5	344.8	333.9	326.0	326.1
42.5°	865.3	896.8	722.9	453.9	358.3	345.7	329.2	311.1	293.5	275.6	274.2
45°	987.6	1002.8	713.6	392.8	323.2	314.9	299.6	281.4	257.9	237.6	235.7
47.5°	1183.2	1149.5	699.1	339.4	292.3	288.8	274.7	253.8	228.9	212.5	211.2
50°	1449.9	1361.4	692.0	297.0	265.0	266.1	254.5	232.4	208.9	196.8	195.4
52.5°	1769.0	1608.1	705.6	264.2	243.1	246.7	238.1	217.4	197.7	188.2	186.8
55°	2100.0	1863.6	720.3	240.3	222.4	229.5	226.5	209.4	191.6	182.8	181.6
57.5°	2383.3	2054.4	691.0	221.0	203.9	215.0	217.5	204.4	188.5	180.6	179.2
60°	2561.6	2131.2	614.0	202.9	189.2	203.4	212.4	203.0	189.7	189.1	188.0
62.5°	2646.2	2124.5	498.4	188.5	180.1	198.4	216.2	210.8	203.6	209.8	210.3
65°	2608.3	2023.0	371.2	179.0	173.5	200.3	227.6	225.5	207.5	213.7	214.6
67.5°	2358.3	1780.7	274.9	170.8	166.3	205.6	248.3	230.3	199.8	204.2	201.5
70°	1906.1	1411.8	212.0	161.4	158.8	204.9	257.6	227.4	191.3	192.3	184.9
72.5°	1314.4	962.7	172.5	152.8	148.1	186.8	251.0	220.1	184.2	176.3	166.4
75°	714.8	516.7	146.6	143.8	129.3	164.0	239.0	215.0	177.8	167.3	161.8
77.5°	281.3	214.4	127.2	131.6	113.1	144.9	225.5	205.1	169.0	155.2	152.5
80°	114.8	109.5	105.5	113.8	97.2	126.7	209.3	193.5	158.5	144.0	138.5
82.5°	65.1	68.0	82.0	89.8	78.9	116.7	201.5	184.2	145.9	129.0	122.4
85°	33.3	39.9	57.1	64.4	58.0	99.3	185.6	161.3	117.1	98.8	99.3
87.5°	16.1	22.3	36.1	40.4	37.6	71.8	138.6	116.9	91.2	72.2	69.9
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)